

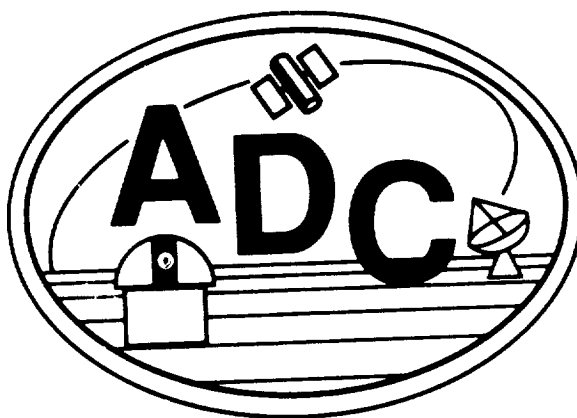
**NASA**  
**Reference**  
**Publication**  
**1298, Vol. III**

1993

**Bonner Durchmusterung**  
**(Southern Durchmusterung)**

*Volume III*

*Compiled by*  
*Astronomical Data Center,*  
*National Space Science Data Center*  
*Goddard Space Flight Center*  
*Greenbelt, Maryland*



**NASA**

National Aeronautics and  
Space Administration  
Office of Management  
Scientific and Technical  
Information Program







## 1 Introduction

The *Southern Durchmusterung* (SD, Schönfeld 1886, Becker 1949, Schmidt 1967) is a visual survey of stars in the declination zones  $-02^{\circ}$  to  $-23^{\circ}$ , completed as an extension to Argelander's (1859-62) monumental *Bonner Durchmusterung* (BD). Schönfeld's survey was carried out using the same methods as had been used for the BD. The procedure consisted of allowing the telescope to drift along the mean declination of each zone and recording the positions and magnitudes of stars crossing the transit line of each field. The goal of the survey was to extend the BD to declination  $-23^{\circ}$  (a plan originally adopted by Argelander) with approximately the same magnitude limits, although the primary instrument was of larger aperture (150 mm) than the 78-mm telescope used for the BD. Thus, whereas the BD magnitude estimates extend to 9.4 mag with all fainter stars assigned a magnitude of 9.5, the SD magnitude estimates extend to 9.9 mag with all fainter stars assigned a magnitude of 10. The SD contains a number of stars fainter than 10.0 mag and even some as faint as 11 mag.

Lists of all corrections made to the original data as a result of published corrigenda, stars deleted according to overstriking in the printed catalogs or their inclusion in lists of "missing" stars, and stars inserted in later editions are given in Section 2. No other corrections or changes have been incorporated into the original data, e.g., from more modern positions and magnitudes or from comparison with other catalogs. For more detailed descriptions of how the observations were made and for additional statistics of star counts and distributions within each zone, the source references should be consulted. The reader can also find additional information on the compilation and scale of the SD, published in English, in papers on Pickering (1885, see pages 361 and 478; 1892; 1913).

## 2 Source References

- Becker, F. 1949, *Bonner Durchmusterung, Südlicher Teil, Declinations-zonen  $-2^{\circ}$  bis  $-22^{\circ}$*  Sternverzeichnis, zweite, berichtigte Auflage (Bonn: Ferd. Dummler Verlag).
- Schmidt, H. 1967, *Bonner Durchmusterung, Südlicher Teil, Declinations-zonen  $-2^{\circ}$  bis  $-22^{\circ}$*  Sternverzeichnis, dritte Auflage (Bonn: Ferd. Dummler Verlag).
- Schönfeld, E. 1886, *Bonner Sternverzeichniss, vierte Sektion: Astronomische Beobachtungen auf der Sternwarte der Königlichen Rheinischen Friedrich-Wilhelms-Universität zu Bonn 8*, Part IV (Bonn: Adolph Marcus).

## 3 Structure

As in the original volume, the positions are for the 1855 equinox. Each page is headed by two entries which provide the DM number and the right ascension for the first and last entries on the page, respectively.



All lower case letters represent supplemental (footnoted) stars added to the catalog via published corrigenda. Upper case letters and asterisks are flags that indicate changes to the original data or to the status of a star in the catalog. They have the following meanings:

- \* Data have been corrected as a result of corrigenda, or there are special notes associated with the star. All changes are given in Section 5, with appropriate notes.
- D The star has been deleted in a later edition of the catalog. This was done by overstriking entries with horizontal lines.
- M The star was noted as "missing" in a list published by Pickering (1907). This entry (there is only one such star) was verified by R. A. Downes and at the ADC.

Magnitude codes denote non-numerical entries in the published catalogs. The following codes are used in the *Durchmusterung* catalogs; not all are used in this volume.

20.0 *neb* (denoting a nebula);

30.0 *var* (denoting variability);

40.0 *nova* or *nova?*;

50.0 *cum* (denoting the total, integrated magnitude estimate for a cluster of stars).

## 4 Preparation of the Machine-readable Version

The data in the machine-readable *Southern Durchmusterung* were keyed directly to disk storage from the published catalogs at the Centre de Données Astronomiques de Strasbourg and at the Astronomical Data Center of the National Space Science Data Center at the NASA Goddard Space Flight Center. The distribution of SD work is given in Table 1.

| Zones        | Location  |
|--------------|---|
| -01°         | Astronomical Data Center/NSSDC                      |
| -02° to -21° | Centre de Données Astronomiques de Strasbourg (CDS) |
| -22° to -23° | Astronomical Data Center/NSSDC                      |

Table 1: Distribution of Computerization Work for SD Data

Most of the data entry work was done at the CDS, where the data were also verified. The ADC zones -01° and -23°, although not often used for stellar designations (the BD is used in zone -01° and the *Córdoba Durchmusterung* in zone -23°), were added for completeness. The three ADC zones were computerized and proofread by Wayne Warren Jr. All zones were carefully examined, checked for sequencing and record counts, reformatted, and merged in the correct order at the ADC, where the final catalog was assembled. The published corrigenda lists were cross checked against the reprinted editions (1949, 1967) of the catalog. The final



catalog was run through a verification program that checked numerical sequencing of the SD numbers, monotonic increase in right ascension, and allowed data ranges. All cases where stars are out of RA order were checked in the original data to verify that their positions are as in the original catalog or the corrigenda.

As mentioned previously, all changes made to SD data and known to the authors of the machine-readable version have been incorporated. Unlike the *Bonner Durchmusterung*, where there had been numerous stars added and deleted, changes in supplemental entries from version to version, and a large number of data corrections, the changes to the SD are relatively few. There were two stars added as supplementary entries (“a” suffix), two stars deleted, and one star published as “missing” by Pickering (1907) and subsequently verified by R. A. Downes of Applied Research Corporation. A small list of corrections was also included in the introduction to the original published catalog. These modifications to the printed catalog are flagged.

Users should note that all stars are not strictly in right ascension order within each zone. This is because individual stars are occasionally out of RA order in the original catalog and because of corrections inserted from the corrigenda.

## 5 Changes to Catalog Data

| Star      | Datum                | For  | Read | Remarks   |
|-----------|----------------------|------|------|---|
| –06 5412  | declination          | 28.8 | 28.3 |   |
| –07 5419  | declination          | 43.0 | 53.0 |   |
| –09 553a  |                      |      |      | Added by Küstner (1918).                          |
| –09 743   | declination          | 45.2 | 54.2 |   |
| –09 4403  | vis. mag.            | 8.9  | 9.3  |   |
| –10 4102a |                      |      |      | Added by Küstner (1918).                          |
| –12 404   | declination          | 12.6 | 42.6 | Sticker (1935).                                   |
| –14 133   | declination          | 32.1 | 33.1 |   |
| –14 5658  | declination          | 46.1 | 45.1 |   |
| –15 1427  | declination          | 26.9 | 25.9 |   |
| –15 4676  |                      |      |      | “Missing” star (Pickering 1907) flagged with “M”. |
| –16 4872  | declination          | 50.4 | 54.0 |   |
| –18 4706  | declination          | 52.8 | 53.2 |   |
| –19 270   | declination          | 38.9 | 34.5 |   |
| –19 6001  | right ascension- sec | 32.0 | 34.4 |   |
| –20 475   | declination          | 2.0  | 6.9  |   |
| –20 477   | declination          | 54.2 | 58.6 |   |
| –20 1041  |                      |      |      | Deleted by Küstner (1918).                        |



| Star      | Datum                | For  | Read | Remarks                      |
|-----------|----------------------|------|------|------------------------------|
| -20 1697  | right ascension- sec | 23.6 | 26.4 |                              |
| -20 1697  | declination          | 28.3 | 28.0 |                              |
| -20 2161  | declination          | 28.4 | 23.8 |                              |
| -20 3648  | right ascension- sec | 39.0 | 46.2 |                              |
| -20 3950  | right ascension- sec | 48.5 | 45.3 | Puts out of order with 3949. |
| -20 4293a |                      |      |      | Deleted by Küstner (1925).   |
| -20 5349  | right ascension- sec | 11.3 | 9.6  |                              |
| -20 5671  | right ascension- sec | 26.4 | 27.2 |                              |
| -21 957   | vis. mag.            | 8.9  | 8.8  |                              |
| -22 3885  | right ascension- sec | 14.1 | 11.3 |                              |
| -22 5735  | right ascension- sec | 45.5 | 55.5 |                              |

## 6 Acknowledgments and References

### 6.1 Acknowledgments

Thanks are due to M. J. Wagner, M. Maslo, and R. Bonnet, who keyed the SD data to disk at the CDS using preprocessing software written and implemented by F. Ochsenbein, and to Dr. R. A. Downes for bringing the cases of "missing" BD and SD stars to Dr. Warren's attention. Dr. Wayne Warren Jr., who was responsible for the overall compilation, is grateful for the support of the CDS director, Dr. C. Jaschek, during the course of the work on the machine-readable version of the catalog. Dr. Warren prepared the document for the machine-readable version from which Nancy G. Roman derived this introduction. She also prepared the catalog for printing.

### 6.2 References

- Argelander, F. W. A. 1859-1862, *Bonner Sternverzeichniss*, erste bis dritte Sektion, *Astronomischen Beobachtungen auf der Sternwarte der Königlichen Rhein.*, Friedrich-Wilhelms-Universität zu Bonn, Bände 3-5.
- Becker, F. 1949, *Bonner Durchmusterung*, Südlicher Teil, Deklinations-Zonen  $-2^{\circ}$  bis  $-22^{\circ}$  Sternverzeichnis, zweite, berichtigte Auflage (Bonn: Ferd. Dümmlers Verlag).
- Chandler, S. C. 1896, *Astron. J.* **16**, 145.
- Couteau, P., Fulconis, M., Ochsenbein, F., Wagner, M. J., and Maslo, W. 1983, *Inf. Bull. CDS* No. 25, p. 83.
- Küstner, F. 1918, *Astron. Nach.* **206**, 69 (Nr. 4929).
- Küstner, F. 1925, *Astron. Nach.* **223**, 309 (Nr. 5347).
- Pickering, E. C. 1885, *Harv. Ann.* **14**.
- Pickering, E. C. 1892, *Harv. Ann.* **23**.
- Pickering, E. C. 1907, *Astron. Nach.* **175**, 139.



- Pickering, E. C. 1913, *Harv. Ann.* **72**.
- Schmidt, H. 1967, *Bonner Durchmusterung*, Südlicher Teil, Deklinations-Zonen  $-2^{\circ}$  bis  $-22^{\circ}$   
Sternverzeichnis, dritte Auflage (Bonn: Ferd. Dümmlers Verlag).
- Schönfeld, E. 1886, *Bonner Sternverzeichniss*, vierte Sektion, *Astronomische Beobachtungen  
auf der Sternwarte der Königlichen Rheinischen Friedrich-Wilhelms-Universität zu Bonn* 8,  
Part IV (Bonn: Adolph Marcus).
- Sticker, B. 1935, *Astron. Nach.* **256**, 341 (Nr. 6139).
- Wagner, M. J. 1984, *Inf. Bull. CDS* No. 26, p. 87.
- Wagner, M. J. 1986, *Inf. Bull. CDS* No. 30, p. 117.
- Warren, W. H. Jr. 1987, *Inf. Bull. CDS* No. 32, p. 67.







1 9.0 00126.4 -0156.6  
2 7.8 00406.3 -0155.7  
3 9.5 00655.4 -0159.6  
4 10. 00727.5 -0156.8  
5 9.7 01112.5 -0157.4  
6 10. 01857.9 -0159.3  
7 10. 01913.0 -0155.8  
8 7.5 02229.2 -0154.8  
9 9.8 02445.9 -0154.1  
10 9.1 03154.4 -0157.9

11 9.7 05739.1 -0156.3  
12 8.6 05820.4 -0159.2  
13 9.0 03947.4 -0156.6  
14 9.5 04011.5 -0158.0  
15 4.5 04535.9 -0155.8  
16 8.5 05210.1 -0158.7  
17 9.8 05318.9 -0155.1  
18 9.5 05113.0 -0157.9  
19 10. 05545.5 -0154.5  
20 10. 05423.3 -0154.5

21 9.8 05713.6 -0153.9  
22 9.2 10010.0 -0153.5  
23 9.4 10011.0 -0155.6  
24 9.4 10019.4 -0128.6  
25 9.3 10029.2 -0146.6  
26 10. 10048.4 -0128.7  
27 9.9 10052.4 -0139.9  
28 9.8 10206.6 -0119.8  
29 9.0 10223.4 -0130.5  
30 9.5 10730.2 -0139.8

31 9.9 10754.2 -0159.2  
32 10. 11158.4 -0158.9  
33 9.7 11230.6 -0157.6  
34 9.7 11318.3 -0156.3  
35 9.5 11517.2 -0158.6  
36 8.8 12004.6 -0156.4  
37 10. 13408.5 -0158.5  
38 9.4 14229.2 -0156.8  
39 8.7 14705.1 -0155.3  
40 9.0 15237.2 -0154.4

41 10. 15328.6 -0155.9  
42 9.5 15839.2 -0156.2  
43 9.5 15942.3 -0158.8  
44 8.9 20845.7 -0157.8  
45 9.3 21253.1 -0157.0  
46 8.8 23505.2 -0156.5  
47 8.3 23910.8 -0159.9  
48 9.9 24630.3 -0155.9  
49 9.6 24803.8 -0157.8  
50 9.4 25056.1 -0159.5

51 9.1 25209.8 -0159.1  
52 9.3 25728.0 -0157.8  
53 9.3 25728.9 -0152.9  
54 10. 25938.4 -0155.1  
55 10. 30244.2 -0147.8  
56 9.5 30312.2 -0145.6  
57 9.1 30419.6 -0155.7  
58 10. 30430.2 -0159.1  
59 9.5 31417.0 -0159.2  
60 9.2 31712.5 -0159.9

61 9.2 31916.4 -0157.7  
62 9.2 32855.7 -0156.0  
63 9.4 33705.4 -0151.2  
64 9.4 33723.0 -0154.7  
65 9.5 33936.3 -0153.7  
66 9.3 33947.3 -0154.2  
67 8.3 34104.5 -0158.8  
68 8.8 34155.6 -0157.0  
69 7.0 34157.3 -0154.1  
70 7.0 34255.2 -0158.0

71 9.6 34442.8 -0149.5  
72 9.5 34449.5 -0136.5  
73 9.2 34619.5 -0156.9  
74 8.0 34922.6 -0159.8  
75 9.3 35332.5 -0155.2  
76 5.0 35411.4 -0157.3  
77 9.0 35700.0 -0154.7  
78 9.4 40459.7 -0159.6  
79 8.0 40657.7 -0159.6  
80 8.9 40822.7 -0156.6

81 9.7 40945.6 -0152.6  
82 9.5 41428.7 -0154.9  
83 8.9 41609.2 -0155.8  
84 9.6 41622.2 -0158.8  
85 9.6 41813.2 -0155.0  
86 9.5 41816.3 -0159.6  
87 10. 41937.5 -0153.6  
88 9.5 41955.6 -0155.2  
89 9.9 42335.2 -0156.8  
90 9.5 42728.0 -0158.8

91 9.3 42751.0 -0156.6  
92 10. 43141.6 -0158.5  
93 10. 43205.9 -0158.7  
94 10. 43343.9 -0156.1  
95 9.0 43411.6 -0159.5  
96 8.5 43448.0 -0156.8  
97 10. 44000.8 -0157.7  
98 10. 44002.8 -0159.0  
99 9.2 44012.7 -0159.4  
100 10. 44527.8 -0152.1

101 8.0 44652.2 -0157.6  
102 9.4 44825.4 -0155.5  
103 9.3 44839.6 -0152.0  
104 8.8 44841.2 -0154.9  
105 9.8 44856.1 -0158.9  
106 9.3 45125.8 -0152.2  
107 10. 45444.4 -0154.8  
108 9.1 45454.7 -0156.1  
109 9.3 45537.8 -0159.8  
110 9.0 45556.0 -0153.3

111 9.5 50231.4 -0158.4  
112 8.5 50338.3 -0156.6  
113 9.5 50345.3 -0156.6  
114 9.0 50500.3 -0159.7  
115 9.5 50815.0 -0148.6  
116 9.2 51012.4 -0158.1  
117 9.7 51055.0 -0158.3  
118 9.3 51146.4 -0159.4  
119 9.5 51828.4 -0159.2  
120 9.3 51921.4 -0159.7

121 9.5 51949.4 -0158.3  
122 8.0 52025.3 -0156.5  
123 9.5 52115.3 -0157.4  
124 9.5 52152.3 -0155.0  
125 9.0 52412.3 -0156.4  
126 8.5 52424.4 -0159.6  
127 9.5 52504.4 -0159.5  
128 9.2 52522.3 -0155.0  
129 8.5 52814.6 -0157.1  
130 9.7 53046.6 -0157.3

131 9.5 53336.6 -0156.4  
132 9.2 53809.0 -0158.2  
133 8.5 54144.0 -0157.5  
134 9.3 54158.0 -0154.8  
135 9.0 54425.4 -0156.4  
136 9.0 54448.8 -0158.3  
137 9.3 54519.7 -0157.5  
138 9.0 54537.0 -0152.8  
139 7.8 54749.0 -0157.4  
140 9.5 54934.0 -0157.8

141 9.3 55819.9 -0157.9  
142 8.5 60001.9 -0156.6  
143 9.2 60038.9 -0155.7  
144 8.0 60100.9 -0155.3  
145 9.6 60218.5 -0159.9  
146 8.5 60302.9 -0159.3  
147 9.4 60397.9 -0157.2  
148 9.3 60343.3 -0156.2  
149 8.8 60407.4 -0158.8  
150 9.4 60603.3 -0156.0

151 9.5 60604.5 -0159.9  
152 9.2 60734.3 -0157.4  
153 10. 61032.0 -0159.5  
154 8.1 61257.5 -0159.6  
155 8.5 61442.5 -0158.3  
156 9.5 61451.5 -0158.6  
157 9.8 61559.2 -0159.6  
158 9.6 61602.2 -0154.6  
159 9.5 61909.7 -0154.3  
160 9.5 62123.8 -0155.0

161 9.4 62603.0 -0157.0  
162 9.2 62639.1 -0159.2  
163 9.5 62713.5 -0158.3  
164 8.7 62939.2 -0157.3  
165 9.0 63111.4 -0155.2  
166 9.5 63334.3 -0156.2  
167 9.7 63511.1 -0159.2  
168 8.9 63541.3 -0157.7  
169 9.5 63644.6 -0157.3  
170 9.8 63717.0 -0152.0

171 9.6 63721.9 -0150.3  
172 9.3 63726.0 -0156.0  
173 9.2 63732.5 -0157.2  
174 9.0 63754.3 -0157.3  
175 9.3 63816.2 -0155.0  
176 9.1 63913.7 -0157.9  
177 9.5 64133.4 -0154.6  
178 9.6 64204.5 -0159.9  
179 9.5 64207.4 -0159.7  
180 9.0 64236.9 -0157.5

181 9.0 64438.9 -0157.3  
182 8.8 64541.1 -0156.0  
183 9.7 64604.3 -0157.7  
184 9.5 64701.6 -0156.4  
185 9.5 64721.7 -0156.7  
186 9.3 64731.9 -0157.8  
187 9.5 64921.8 -0156.8  
188 9.5 65104.3 -0157.3  
189 9.5 65106.0 -0156.3  
190 9.5 65222.2 -0157.2

191 9.1 65357.4 -0157.2  
192 9.4 65407.0 -0157.3  
193 9.5 65501.3 -0157.7  
194 9.0 65533.1 -0150.8  
195 9.5 65622.7 -0157.6  
196 9.5 65628.5 -0156.8  
197 9.7 65659.4 -0159.3  
198 9.4 65729.1 -0154.4  
199 9.4 65805.4 -0157.7  
200 9.1 65810.9 -0159.3

201 9.3 70033.7 -0157.4  
202 9.3 70225.9 -0159.3  
203 9.5 70274.7 -0157.7  
204 9.5 70313.9 -0157.6  
205 9.5 70348.3 -0156.5  
206 9.3 70352.3 -0156.6  
207 9.7 70408.8 -0159.5  
208 9.7 70522.6 -0157.2  
209 10. 70851.7 -0158.1  
210 9.0 71140.1 -0157.5

211 9.5 71152.4 -0156.6  
212 9.4 71236.3 -0156.7  
213 9.5 71514.9 -0159.1  
214 9.5 71588.6 -0158.1  
215 9.3 71621.7 -0158.1  
216 9.4 71624.5 -0156.7  
217 9.5 71743.3 -0158.3  
218 9.3 71815.9 -0156.7  
219 7.1 71838.9 -0157.8  
220 9.3 71909.3 -0158.0

221 9.4 71927.0 -0158.1  
222 7.5 72441.6 -0151.5  
223 9.3 72451.1 -0156.7  
224 9.5 72747.0 -0158.1  
225 9.4 72810.5 -0156.0  
226 9.5 73116.0 -0157.8  
227 9.3 73150.9 -0156.8  
228 9.1 73206.0 -0158.3  
229 9.4 73412.3 -0157.9  
230 9.0 73413.0 -0157.7

231 8.3 74239.3 -0156.8  
232 8.3 74511.2 -0158.9  
233 9.5 74521.7 -0157.7  
234 8.9 74611.9 -0157.3  
235 9.5 74724.6 -0157.5  
236 9.4 74841.4 -0157.1  
237 9.4 75012.9 -0157.1  
238 9.1 75204.6 -0157.5  
239 9.1 75410.0 -0158.6  
240 7.7 75431.3 -0159.5

241 9.4 75806.4 -0157.7  
242 7.5 75907.1 -0157.7  
243 9.0 75908.9 -0157.5  
244 9.1 80105.9 -0157.9  
245 8.8 80215.1 -0156.1  
246 9.0 80234.0 -0156.1  
247 9.8 80509.6 -0155.9  
248 9.4 80511.7 -0157.6  
249 9.1 81021.9 -0156.6  
250 9.5 81337.8 -0156.0

251 9.5 81344.9 -0159.1  
252 9.5 81504.9 -0157.3  
253 8.8 81700.8 -0156.6  
254 9.5 81820.3 -0156.1  
255 9.2 82005.4 -0158.5  
256 8.6 82021.8 -0158.1  
257 9.7 82103.6 -0158.6  
258 9.0 82211.1 -0157.1  
259 8.0 82189.1 -0156.6  
260 9.7 82311.6 -0156.6

261 9.5 82425.3 -0156.1  
262 9.4 82435.6 -0156.1  
263 10. 83151.0 -0156.7  
264 8.8 83314.4 -0156.1  
265 9.6 83855.0 -0156.1  
266 7.8 84104.8 -0157.1  
267 9.0 84153.7 -0157.6  
268 9.8 84440.0 -0156.1  
269 10. 84502.0 -0158.6  
270 8.9 84511.9 -0157.6

271 9.4 84544.6 -0157.5  
272 9.4 85094.4 -0158.4  
273 10. 85101.5 -0156.9  
274 9.8 85118.5 -0158.8  
275 9.3 85133.8 -0154.6  
276 8.5 85221.0 -0159.7  
277 8.2 85270.0 -0159.8  
278 9.0 85402.7 -0158.2  
279 9.3 85404.1 -0158.8  
280 9.6 85414.6 -0149.8

281 9.2 85936.1 -0144.0  
282 7.0 90040.7 -0156.0  
283 9.5 90206.4 -0157.7  
284 9.0 90345.4 -0156.2  
285 9.8 90444.9 -0157.0  
286 9.5 90549.6 -0155.8  
287 9.0 90565.8 -0158.7  
288 9.4 91042.0 -0159.8  
289 9.5 91118.2 -0156.9  
290 9.5 91170.0 -0159.4

291 7.5 91148.1 -0150.8  
292 9.0 91408.2 -0151.7  
293 8.8 91515.0 -0151.0  
294 9.6 91544.0 -0150.6  
295 9.5 91730.1 -0156.9  
296 9.5 92114.1 -0155.8  
297 9.5 92116.6 -0155.9  
298 9.2 92513.4 -0150.9  
299 9.7 92513.6 -0158.8  
300 8.3 92514.9 -0158.1

301 9.6 92526.9 -0156.3  
302 9.6 92531.0 -0156.9  
303 9.7 92541.5 -0156.9  
304 9.6 92541.5 -0156.9  
305 10. 92541.6 -0156.9  
306 9.4 92551.0 -0156.9  
307 9.2 92551.0 -0156.9  
308 7.8 92551.0 -0156.9  
309 8.5 92551.0 -0156.9  
310 8.2 92551.0 -0156.9

311 9.1 94102.9 -0154.3  
312 9.7 94213.0 -0154.6  
313 9.3 94213.0 -0154.6  
314 9.5 94213.0 -0154.6  
315 9.5 94213.0 -0154.6  
316 9.5 94213.0 -0154.6  
317 9.5 94213.0 -0154.6  
318 9.6 94213.0 -0154.6  
319 10. 94213.0 -0154.6  
320 9.5 94213.0 -0154.6

321 9.5 100110.1 -0157.4  
322 9.6 100413.7 -0157.0  
323 10. 100724.9 -0157.0  
324 9.4 100810.2 -0156.3  
325 9.9 100838.7 -0157.4  
326 9.3 100850.7 -0157.1  
327 9.3 100850.7 -0157.1  
328 9.3 100850.7 -0157.1  
329 9.3 100850.7 -0157.1  
330 9.3 100850.7 -0157.1

331 9.3 100850.7 -0157.1  
332 9.3 100850.7 -0157.1  
333 9.3 100850.7 -0157.1  
334 9.3 100850.7 -0157.1  
335 9.3 100850.7 -0157.1  
336 9.3 100850.7 -0157.1  
337 9.3 100850.7 -0157.1  
338 9.3 100850.7 -0157.1  
339 9.3 100850.7 -0157.1  
340 9.3 100850.7 -0157.1

341 8.5 100850.7 -0157.1  
342 9.7 100850.7 -0157.1  
343 9.5 100850.7 -0157.1  
344 10. 100850.7 -0157.1  
345 11. 100850.7 -0157.1  
346 8.3 100850.7 -0157.1  
347 9.3 100850.7 -0157.1  
348 9.3 100850.7 -0157.1  
349 9.3 100850.7 -0157.1  
350 10. 100850.7 -0157.1

351 9.3 100850.7 -0157.1  
352 9.3 100850.7 -0157.1  
353 9.3 100850.7 -0157.1  
354 9.3 100850.7 -0157.1  
355 9.3 100850.7 -0157.1  
356 9.3 100850.7 -0157.1  
357 9.3 100850.7 -0157.1  
358 9.3 100850.7 -0157.1  
359 9.3 100850.7 -0157.1  
360 9.3 100850.7 -0157.1



361 9.5 114017.9 -0152.0  
 362 9.5 114023.9 -0156.5  
 363 8.8 114211.4 -0156.6  
 364 9.5 114235.8 -0154.8  
 365 9.3 114323.9 -0159.0  
 366 10. 114514.9 -0154.8  
 367 9.1 114917.3 -0158.5  
 368 10. 114924.1 -0156.4  
 369 9.5 115407.9 -0158.7  
 370 9.3 115419.8 -0152.9

371 9.9 120158.8 -0156.9  
 372 9.0 120810.7 -0159.9  
 373 8.2 120918.7 -0156.4  
 374 10. 121012.8 -0153.9  
 375 8.8 121455.7 -0158.5  
 376 9.5 121934.7 -0159.8  
 377 9.1 122006.7 -0159.4  
 378 8.8 122100.2 -0157.5  
 379 9.3 122307.8 -0156.7  
 380 9.3 122820.3 -0156.7

381 10. 122942.3 -0154.1  
 382 9.0 123305.3 -0159.8  
 383 9.3 123416.3 -0153.6  
 384 8.8 123422.2 -0156.9  
 385 9.5 123429.5 -0154.9  
 386 8.8 123556.4 -0155.3  
 387 9.2 123713.4 -0155.1  
 388 9.5 124957.2 -0154.4  
 389 9.2 125009.2 -0158.7  
 390 9.3 125257.3 -0155.4

391 10. 125712.3 -0157.0  
 392 9.2 125852.8 -0159.9  
 393 9.5 130101.7 -0154.7  
 394 8.0 130102.2 -0154.2  
 395 10. 130251.2 -0152.9  
 396 8.7 130330.4 -0157.2  
 397 9.5 130958.2 -0155.4  
 398 10. 131714.5 -0157.2  
 399 10. 131847.5 -0159.0  
 400 9.7 131916.5 -0152.8

401 9.1 132820.4 -0158.6  
 402 10. 132853.5 -0155.5  
 403 9.5 134336.2 -0157.3  
 404 10. 134809.4 -0159.4  
 405 9.3 135340.9 -0157.8  
 406 9.5 135757.4 -0154.1  
 407 9.5 140212.5 -0158.4  
 408 9.2 140258.2 -0159.1  
 409 8.0 140328.7 -0159.5  
 410 9.7 140410.2 -0153.4

411 9.9 140750.1 -0158.1  
 412 9.5 140854.1 -0156.7  
 413 9.4 140917.0 -0157.2  
 414 8.9 140945.4 -0158.9  
 415 9.9 141012.0 -0159.6  
 416 10. 141048.1 -0154.9  
 417 9.8 141344.0 -0159.0  
 418 9.0 142127.8 -0155.5  
 419 9.5 142200.8 -0153.2  
 420 9.3 142656.6 -0159.2

421 9.2 143114.0 -0156.0  
 422 9.5 144323.0 -0158.6  
 423 9.5 144501.0 -0155.9  
 424 9.0 144621.1 -0154.3  
 425 9.6 144909.0 -0156.4  
 426 9.1 145730.1 -0157.9  
 427 9.5 150016.3 -0153.1  
 428 9.0 150629.3 -0152.3  
 429 9.4 150634.3 -0154.1  
 430 10. 150740.3 -0154.2

431 8.9 153243.0 -0151.4  
 432 9.2 153809.5 -0154.6  
 433 9.3 154134.6 -0156.0  
 434 9.2 154237.0 -0155.5  
 435 9.9 154258.2 -0154.0  
 436 9.5 154320.0 -0156.4  
 437 9.2 154514.9 -0156.1  
 438 9.8 155300.6 -0156.8  
 439 9.7 160133.4 -0157.1  
 440 9.0 160209.1 -0153.8

441 9.8 160232.2 -0159.4  
 442 9.5 160242.0 -0155.8  
 443 9.8 160403.9 -0157.8  
 444 8.3 160632.3 -0158.1  
 445 8.0 160744.3 -0157.9  
 446 8.3 161037.3 -0155.3  
 447 8.3 161612.3 -0155.4  
 448 9.0 161633.3 -0159.2  
 449 8.7 162101.6 -0159.1  
 450 8.3 162315.6 -0159.0

451 7.8 162413.0 -0156.5  
 452 9.3 162649.6 -0159.3  
 453 8.7 162742.3 -0155.7  
 454 9.0 162813.5 -0158.0  
 455 9.3 164014.5 -0153.2  
 456 9.2 164344.5 -0157.8  
 457 9.3 164502.3 -0158.9  
 458 9.5 164814.8 -0158.8  
 459 9.2 165055.4 -0159.4  
 460 9.0 165235.2 -0159.1

461 9.8 165255.7 -0155.6  
 462 9.5 165440.7 -0159.3  
 463 9.5 165825.5 -0153.3  
 464 9.5 170003.2 -0155.4  
 465 7.7 170111.7 -0155.0  
 466 9.3 170928.2 -0157.4  
 467 9.0 171315.7 -0155.0  
 468 9.5 171446.9 -0156.4  
 469 9.5 171828.2 -0157.5  
 470 9.4 172017.4 -0157.0

471 9.6 172109.7 -0156.7  
 472 9.8 172143.2 -0154.6  
 473 10. 172302.7 -0156.9  
 474 9.1 172539.5 -0158.0  
 475 9.3 172712.7 -0159.8  
 476 9.5 173003.7 -0158.8  
 477 9.8 173256.2 -0159.4  
 478 8.5 173607.7 -0155.4  
 479 9.5 173636.5 -0157.5  
 480 9.4 173850.2 -0157.7

481 9.0 174032.0 -0156.6  
 482 9.4 174343.5 -0153.2  
 483 10. 174348.7 -0153.0  
 484 9.0 175049.9 -0157.0  
 485 9.3 175314.2 -0159.1  
 486 9.5 175557.0 -0155.5  
 487 9.5 175640.5 -0154.8  
 488 8.0 175800.1 -0157.8  
 489 9.4 180159.9 -0158.2  
 490 9.0 180358.2 -0153.3

491 9.5 180439.8 -0159.5  
 492 9.4 180516.7 -0159.5  
 493 9.5 180857.7 -0157.1  
 494 8.5 180938.3 -0153.0  
 495 8.2 181100.4 -0158.1  
 496 9.0 181219.1 -0159.9  
 497 9.6 181632.0 -0159.6  
 498 8.0 181711.3 -0156.9  
 499 10. 181839.5 -0154.8  
 500 8.5 182219.3 -0154.0

501 8.8 182257.8 -0158.7  
 502 9.5 182401.0 -0159.1  
 503 9.5 182429.3 -0154.2  
 504 9.5 182524.1 -0156.1  
 505 8.9 182541.3 -0155.7  
 506 9.5 182600.4 -0155.2  
 507 9.5 182821.4 -0157.5  
 508 8.3 183026.7 -0156.1  
 509 9.1 183317.5 -0158.8  
 510 9.5 183319.8 -0152.4

511 8.4 183345.1 -0158.2  
 512 9.8 183511.4 -0158.9  
 513 9.5 183520.9 -0154.4  
 514 9.4 183616.9 -0154.7  
 515 9.3 183618.2 -0159.6  
 516 8.5 183705.4 -0159.8  
 517 9.3 183902.9 -0159.9  
 518 9.5 183911.4 -0159.5  
 519 9.3 183931.6 -0159.5  
 520 9.7 183946.7 -0156.0

521 9.5 184307.0 -0155.6  
 522 9.1 184311.0 -0159.0  
 523 9.3 184349.2 -0156.4  
 524 8.8 184409.1 -0155.4  
 525 6.3 184851.3 -0158.8  
 526 9.2 185153.3 -0154.7  
 527 9.0 185313.5 -0157.5  
 528 9.1 185353.0 -0156.3  
 529 9.8 185449.9 -0158.7  
 530 9.5 185510.2 -0158.9

531 9.3 185536.3 -0158.3  
 532 9.6 185544.4 -0158.1  
 533 9.8 185634.9 -0159.1  
 534 9.5 185701.9 -0155.3  
 535 9.3 185837.2 -0157.4  
 536 8.0 185926.0 -0156.8  
 537 9.3 185942.8 -0154.5  
 538 9.4 190005.0 -0157.0  
 539 9.1 190007.6 -0157.6  
 540 10. 190033.5 -0159.7

541 9.9 190040.6 -0158.0  
 542 9.2 190144.6 -0156.6  
 543 9.5 190226.4 -0156.6  
 544 9.5 190233.0 -0155.7  
 545 9.7 190541.6 -0158.1  
 546 9.4 190630.4 -0158.0  
 547 9.0 190634.8 -0156.9  
 548 9.9 190700.7 -0157.5  
 549 10. 190711.0 -0157.8  
 550 8.5 190824.0 -0159.1

551 9.8 190913.7 -0153.6  
 552 9.4 191012.6 -0157.0  
 553 9.5 191110.8 -0155.2  
 554 8.4 191113.0 -0150.5  
 555 9.5 191153.8 -0152.8  
 556 9.8 191220.6 -0156.5  
 557 8.6 191234.0 -0151.4  
 558 8.7 191318.7 -0159.4  
 559 9.3 191806.3 -0155.2  
 560 9.5 191838.5 -0158.0

561 8.7 192302.4 -0156.4  
 562 8.9 192429.3 -0155.4  
 563 8.9 192808.7 -0159.4  
 564 9.0 192824.4 -0155.2  
 565 9.4 192916.5 -0157.2  
 566 9.8 192938.0 -0155.6  
 567 9.1 192957.9 -0158.3  
 568 9.7 193547.9 -0154.7  
 569 9.2 193734.6 -0156.8  
 570 10. 193954.8 -0155.3

571 9.5 194202.5 -0153.4  
 572 8.7 194207.9 -0154.7  
 573 8.9 194351.7 -0154.2  
 574 9.5 194446.6 -0157.7  
 575 9.4 194824.1 -0159.5  
 576 9.4 194901.6 -0155.6  
 577 9.7 195010.3 -0159.4  
 578 9.4 195101.3 -0156.8  
 579 10. 195118.0 -0159.7  
 580 9.4 195407.9 -0156.8

581 9.5 195930.4 -0158.1  
 582 10. 200154.0 -0156.1  
 583 9.5 200235.3 -0155.9  
 584 9.4 200352.1 -0154.9  
 585 9.5 200456.4 -0159.1  
 586 9.4 200602.8 -0159.2  
 587 9.5 200634.7 -0157.3  
 588 9.5 200723.4 -0154.8  
 589 7.0 200854.4 -0156.2  
 590 9.2 200927.1 -0155.3

591 9.5 21122.4 -0156.7  
 592 8.7 212326.5 -0157.2  
 593 8.2 212511.0 -0156.6  
 594 9.3 212558.1 -0154.5  
 595 9.3 212822.3 -0155.0  
 596 8.8 212917.1 -0156.6  
 597 9.3 212942.6 -0156.0  
 598 9.1 212951.9 -0157.2  
 599 8.7 212972.0 -0153.4  
 600 9.4 213740.2 -0157.0

601 8.7 213806.2 -0157.3  
 602 9.5 213858.1 -0157.1  
 603 9.0 213939.5 -0152.5  
 604 8.5 214724.6 -0154.5  
 605 7.0 214738.6 -0155.0  
 606 9.4 214825.6 -0153.6  
 607 8.8 214939.7 -0157.4  
 608 9.0 214959.2 -0159.9  
 609 9.7 215044.6 -0153.3  
 610 9.5 215450.5 -0157.1

611 9.3 210348.6 -0155.9  
 612 8.2 210403.3 -0153.6  
 613 8.9 210447.9 -0156.0  
 614 9.5 210623.7 -0157.8  
 615 8.7 211025.1 -0159.9  
 616 9.5 211026.9 -0158.1  
 617 9.7 211147.6 -0158.1  
 618 9.4 211204.4 -0157.5  
 619 9.7 211405.0 -0154.2  
 620 9.3 212317.8 -0156.7

621 9.1 212531.7 -0159.8  
 622 9.4 212842.4 -0156.7  
 623 9.2 213049.0 -0159.2  
 624 9.5 212110.0 -0155.2  
 625 9.1 213330.4 -0154.3  
 626 9.5 213356.8 -0152.3  
 627 9.7 213640.5 -0156.8  
 628 9.5 214158.3 -0157.9  
 629 9.4 214256.8 -0159.7  
 630 8.6 214435.6 -0157.5

631 9.5 214645.1 -0146.0  
 632 10. 214705.1 -0144.6  
 633 9.7 214729.1 -0147.4  
 634 9.6 214922.6 -0155.1  
 635 9.8 215120.4 -0154.2  
 636 9.0 215216.1 -0146.1  
 637 9.3 215237.1 -0146.1  
 638 9.3 215342.1 -0145.6  
 639 10. 215349.1 -0143.8  
 640 9.5 215408.4 -0151.6

641 8.2 215416.4 -0149.4  
 642 9.5 215603.1 -0159.5  
 643 9.3 215708.4 -0153.4  
 644 9.5 215724.3 -0152.1  
 645 8.7 215901.2 -0159.9  
 646 9.3 220051.4 -0156.5  
 647 9.3 220330.1 -0155.4  
 648 9.6 220404.1 -0157.5  
 649 8.5 220419.9 -0157.7  
 650 9.4 220535.6 -0158.2

651 9.4 220715.5 -0159.7  
 652 9.5 221510.3 -0159.6  
 653 7.0 221706.7 -0155.2  
 654 9.8 222009.7 -0157.8  
 655 9.7 222031.6 -0159.7  
 656 9.5 222129.2 -0158.4  
 657 9.5 222647.0 -0154.7  
 658 9.3 223005.5 -0159.6  
 659 9.5 223102.6 -0159.3  
 660 9.4 223133.0 -0157.2

661 10. 223424.5 -0158.1  
 662 8.0 223753.5 -0156.2  
 663 10. 223851.5 -0157.9  
 664 8.0 224651.0 -0149.5  
 665 9.5 225141.7 -0157.4  
 666 8.8 225434.8 -0159.4  
 667 10. 225454.3 -0156.9  
 668 9.6 225612.6 -0155.0  
 669 9.2 225641.0 -0155.9  
 670 9.2 225735.6 -0159.0

671 9.4 230116.9 -0158.7  
 672 9.0 230412.9 -0155.1  
 673 9.5 230422.9 -0156.0  
 674 10. 230612.9 -0158.7  
 675 9.2 231103.9 -0158.3  
 676 8.7 231512.2 -0156.8  
 677 10. 231612.0 -0159.2  
 678 9.3 231845.0 -0155.2  
 679 10. 231901.0 -0154.7  
 680 9.5 232250.0 -0154.7

681 9.0 232944.3 -0155.0  
 682 10. 233043.1 -0158.9  
 683 10. 233105.1 -0156.7  
 684 9.0 233430.1 -0154.4  
 685 9.1 233657.8 -0155.0  
 686 9.4 234012.3 -0159.1  
 687 9.7 234325.2 -0158.0  
 688 9.4 234502.2 -0158.4  
 689 9.5 235032.2 -0158.4  
 690 9.3 235102.2 -0153.5

691 9.1 235416.9 -0157.2  
 692 10. 235623.3 -0158.9  
 7 9.3 000001.1 -0211.8  
 2 9.5 00019.7 -0259.5  
 3 8.9 000203.3 -0208.7  
 4 10. 000236.3 -0224.8  
 5 10. 00134.3 -0244.8  
 6 10. 00145.6 -0243.5  
 7 10. 00156.3 -0235.0  
 8 9.5 00222.0 -0258.8

9 10. 00223.3 -0245.8  
 10 8.1 00331.3 -0252.6  
 11 10. 00334.7 -0230.5  
 12 10. 00346.3 -0259.2  
 13 9.5 00351.1 -0212.6  
 14 10. 00400.6 -0251.5  
 15 9.6 00413.0 -0257.7  
 16 9.1 00421.8 -0234.4  
 17 9.5 00422.3 -0222.5  
 18 9.4 00435.1 -0222.1

19 7.0 00434.0 -0202.5  
 20 9.3 00612.3 -0248.6  
 21 9.9 00621.5 -0212.4  
 22 10. 00736.6 -0243.7  
 23 9.2 00800.7 -0230.7  
 24 10. 00823.3 -0220.8  
 25 9.3 00901.8 -0237.4  
 26 8.2 00911.2 -0219.3  
 27 10. 00917.9 -0254.2  
 28 9.4 00935.7 -0255.4



-02 29 0h09m

29 8.3 00940.2 -0227.6  
30 9.6 00955.8 -0235.4  
31 6.7 01022.8 -0240.2  
32 10.1 01022.8 -0237.3  
33 9.5 01040.1 -0209.2  
34 7.3 01053.0 -0249.3  
35 9.5 01104.4 -0202.9  
36 9.0 01207.6 -0203.9  
37 9.4 01228.2 -0226.6  
38 10.1 01228.7 -0242.6

39 9.3 01235.4 -0258.4  
40 9.5 01242.4 -0248.0  
41 10.1 01405.4 -0217.6  
42 9.7 01409.5 -0243.3  
43 9.4 01409.5 -0250.9  
44 9.5 01527.4 -0221.6  
45 9.3 01553.2 -0222.7  
46 9.8 01559.7 -0209.6  
47 9.8 01600.1 -0203.2  
48 9.4 01649.7 -0215.7

49 8.2 01653.3 -0202.8  
50 9.8 01707.9 -0245.5  
51 9.8 01712.5 -0219.7  
52 9.8 01720.9 -0221.1  
53 9.0 01748.9 -0238.0  
54 9.8 01815.5 -0210.1  
55 9.3 01829.6 -0216.6  
56 9.5 01906.2 -0226.9  
57 8.5 02029.8 -0229.0  
58 9.8 02052.2 -0257.5

59 9.3 02134.2 -0220.6  
60 10.1 02141.0 -0225.5  
61 10.1 02151.2 -0235.5  
62 10.1 02151.5 -0244.8  
63 9.4 02236.0 -0205.8  
64 10.1 02238.1 -0207.3  
65 9.5 02246.6 -0218.7  
66 10.1 02305.9 -0234.4  
67 9.0 02359.1 -0249.3  
68 9.2 02412.1 -0250.6

69 7.3 02415.3 -0235.4  
70 8.8 02435.4 -0202.2  
71 9.2 02505.7 -0224.9  
72 9.8 02533.1 -0214.9  
73 9.6 02559.6 -0217.8  
74 9.3 02606.2 -0202.2  
75 8.5 02731.0 -0206.4  
76 8.9 02806.3 -0252.1  
77 9.4 02817.7 -0220.7  
78 9.7 02917.9 -0242.6

79 9.5 02936.1 -0200.3  
80 10.1 03025.7 -0247.0  
81 8.9 03047.9 -0230.6  
82 10.1 03103.7 -0252.4  
83 9.2 03147.6 -0218.9  
84 8.2 03154.3 -0245.8  
85 9.6 03201.9 -0250.0  
86 9.2 03239.4 -0234.4  
87 8.3 03308.0 -0233.9  
88 9.9 03311.0 -0259.6

89 9.4 03318.0 -0238.6  
90 9.8 03328.5 -0202.4  
91 8.6 03346.2 -0218.5  
92 9.8 03348.6 -0257.6  
93 8.6 03409.5 -0205.3  
94 9.2 03443.0 -0200.4  
95 9.6 03511.7 -0247.7  
96 10.1 03611.9 -0229.5  
97 10.1 03614.7 -0217.0  
98 9.4 03628.7 -0216.7

99 9.9 03704.5 -0202.4  
100 9.1 03736.0 -0255.6  
101 9.5 03736.3 -0203.1  
102 9.5 03746.8 -0220.9  
103 10.1 03800.2 -0213.4  
104 8.9 03905.7 -0217.8  
105 9.0 03914.0 -0254.7  
106 8.5 03936.0 -0202.7  
107 10.1 03949.3 -0256.0  
108 9.5 04024.3 -0214.0

109 9.1 04030.4 -0223.4  
110 8.8 04112.0 -0233.3  
111 8.5 04153.4 -0224.5  
112 8.4 04322.9 -0242.4  
113 9.2 04359.3 -0210.8  
114 9.1 04404.1 -0204.2  
115 9.5 04417.6 -0247.5  
116 9.3 04432.3 -0208.0  
117 9.1 04438.0 -0253.4  
118 8.4 04527.4 -0241.1

119 9.2 04554.8 -0240.4  
120 9.2 04629.4 -0252.4  
121 9.6 04646.9 -0250.5  
122 9.4 04651.1 -0235.6  
123 9.0 04724.9 -0220.6  
124 8.6 04749.3 -0217.1  
125 9.8 04758.2 -0201.8  
126 9.6 04812.2 -0202.1  
127 9.4 04819.7 -0253.0  
128 9.5 04853.1 -0205.2

129 8.9 04957.6 -0235.6  
130 8.9 05022.3 -0247.4  
131 6.5 05026.5 -0232.6  
132 8.2 05103.2 -0226.4  
133 9.5 05122.1 -0207.9  
134 8.9 05144.7 -0252.8  
135 8.8 05211.2 -0206.3  
136 7.4 05239.2 -0247.9  
137 9.0 05241.9 -0218.3  
138 9.9 05257.0 -0242.9

139 9.7 05309.6 -0236.6  
140 7.4 05317.5 -0226.1  
141 9.7 05322.1 -0213.8  
142 9.3 05333.8 -0221.5  
143 8.8 05334.4 -0221.4  
144 8.9 05344.6 -0229.6  
145 9.7 05359.3 -0243.5  
146 9.8 05446.9 -0255.4  
147 10.1 05455.8 -0213.3  
148 8.8 05502.2 -0250.5

149 9.7 05527.1 -0229.9  
150 9.7 05535.5 -0253.1  
151 10.1 05538.7 -0255.0  
152 9.1 05549.4 -0248.1  
153 9.2 05555.2 -0259.7  
154 8.7 05601.4 -0216.1  
155 9.0 05632.4 -0240.3  
156 9.4 05645.2 -0230.7  
157 9.4 05653.8 -0251.2  
158 10.1 05807.5 -0219.6

159 9.0 05840.6 -0215.3  
160 8.8 05945.4 -0230.2  
161 9.0 10001.1 -0216.8  
162 9.5 10025.8 -0243.2  
163 9.8 10034.7 -0206.8  
164 9.2 10045.9 -0208.0  
165 9.2 10049.1 -0211.2  
166 10.1 10101.6 -0224.6  
167 8.0 10108.8 -0250.4  
168 10.1 10128.6 -0256.8

169 9.9 10209.0 -0231.5  
170 9.0 10214.5 -0232.2  
171 9.3 10215.6 -0238.5  
172 9.5 10232.4 -0258.9  
173 9.6 10241.1 -0200.4  
174 8.5 10242.2 -0222.0  
175 8.0 10349.1 -0202.8  
176 8.5 10351.3 -0245.7  
177 9.9 10418.1 -0218.0  
178 9.7 10528.7 -0239.0

179 9.5 10536.9 -0214.8  
180 9.4 10556.7 -0229.4  
181 8.9 10557.8 -0237.8  
182 9.4 10618.7 -0200.2  
183 9.7 10622.5 -0250.1  
184 8.3 10641.6 -0253.0  
185 8.2 10651.3 -0257.3  
186 9.5 10704.7 -0228.4  
187 9.5 10705.9 -0211.7  
188 9.9 10803.0 -0202.9

189 9.4 10825.5 -0245.5  
190 10.1 10910.8 -0251.4  
191 9.4 10914.1 -0224.4  
192 8.5 10916.5 -0201.8  
193 9.5 10927.1 -0247.3  
194 9.2 11003.2 -0227.7  
195 9.6 11211.9 -0255.0  
196 9.4 11249.7 -0223.2  
197 9.4 11327.6 -0214.6  
198 7.3 11328.7 -0204.3

199 9.5 11333.8 -0227.2  
200 8.2 11424.7 -0245.6  
201 10.1 11434.4 -0202.5  
202 9.5 11440.2 -0235.2  
203 9.0 11448.2 -0240.0  
204 9.5 11448.7 -0220.2  
205 9.7 11531.8 -0255.7  
206 9.5 11611.7 -0223.9  
207 9.5 11654.1 -0212.3  
208 9.2 11656.2 -0229.8

209 10.1 11656.9 -0253.7  
210 9.6 11739.3 -0245.0  
211 9.8 11750.7 -0233.5  
212 9.4 11820.7 -0231.9  
213 7.7 11843.9 -0257.5  
214 9.5 11851.1 -0241.9  
215 8.7 11915.8 -0227.0  
216 9.8 11931.5 -0254.1  
217 9.7 12002.7 -0236.5  
218 9.2 12002.8 -0249.3

219 10.1 12003.1 -0217.0  
220 8.6 12034.3 -0244.4  
221 7.4 12038.4 -0247.3  
222 9.2 12049.7 -0208.4  
223 9.4 12057.1 -0200.5  
224 9.8 12114.8 -0237.1  
225 9.5 12149.7 -0204.8  
226 9.6 12152.7 -0241.2  
227 10.1 12250.8 -0230.1  
228 8.9 12315.2 -0232.5

229 9.5 12337.8 -0244.3  
230 9.5 12408.5 -0217.7  
231 9.3 12410.1 -0220.0  
232 9.6 12414.0 -0212.6  
233 9.5 12424.1 -0226.6  
234 9.1 12514.1 -0246.9  
235 9.4 12518.7 -0237.7  
236 9.0 12520.2 -0223.9  
237 9.4 12543.7 -0208.7  
238 8.8 12545.3 -0232.2

239 9.5 12558.3 -0237.5  
240 9.3 12558.9 -0248.6  
241 10.1 12559.5 -0244.8  
242 8.3 12614.8 -0236.7  
243 8.9 12626.0 -0222.6  
244 9.5 12631.2 -0231.6  
245 8.4 12634.2 -0254.5  
246 9.6 12637.6 -0250.5  
247 9.1 12638.3 -0225.9  
248 9.5 12638.5 -0212.7

249 9.5 12657.7 -0246.6  
250 7.5 12724.8 -0246.4  
251 8.9 12728.1 -0251.2  
252 9.8 12753.8 -0232.5  
253 8.6 12823.4 -0208.7  
254 9.3 12949.0 -0258.0  
255 8.7 13000.9 -0255.7  
256 10.1 13015.0 -0239.4  
257 9.5 13022.2 -0201.7  
258 9.5 13027.7 -0213.8

259 8.5 13028.0 -0202.6  
260 8.8 13050.3 -0230.0  
261 9.6 13051.2 -0227.5  
262 9.5 13109.6 -0235.9  
263 9.3 13134.8 -0240.7  
264 9.5 13145.8 -0229.9  
265 9.2 13149.8 -0219.0  
266 9.5 13152.6 -0203.1  
267 10.1 13235.5 -0247.2  
268 9.6 13245.7 -0211.5

269 9.5 13251.2 -0201.5  
270 8.3 13303.8 -0220.0  
271 9.1 13329.7 -0208.4  
272 9.4 13345.8 -0230.7  
273 9.5 13350.3 -0211.5  
274 9.7 13402.1 -0215.5  
275 9.1 13412.9 -0247.5  
276 9.4 13434.8 -0203.7  
277 9.1 13441.8 -0232.5  
278 7.7 13502.5 -0253.8

279 9.4 13508.2 -0240.0  
280 9.5 13603.8 -0231.7  
281 9.5 13617.0 -0208.8  
282 9.5 13617.9 -0242.5  
283 9.8 13621.7 -0254.8  
284 9.7 13652.6 -0228.0  
285 9.3 13712.9 -0237.8  
286 9.5 13740.4 -0221.1  
287 9.7 13800.9 -0248.3  
288 9.0 13809.6 -0256.0

289 9.4 13819.8 -0252.2  
290 9.9 13822.7 -0247.0  
291 7.8 13827.6 -0239.3  
292 9.2 13846.2 -0212.1  
293 9.3 13846.4 -0207.2  
294 10.1 13921.1 -0256.2  
295 9.6 14029.2 -0232.1  
296 9.3 14041.7 -0232.6  
297 9.7 14115.6 -0257.8  
298 8.3 14116.2 -0215.2

-02 388 2h08m

299 8.9 14123.2 -0208.8  
300 9.0 14123.9 -0209.2  
301 9.5 14153.7 -0214.0  
302 9.7 14205.6 -0258.2  
303 9.7 14206.4 -0250.3  
304 10.1 14224.6 -0207.3  
305 9.1 14247.8 -0237.3  
306 8.2 14315.7 -0247.0  
307 9.5 14413.4 -0213.7  
308 9.4 14444.7 -0231.5

309 8.6 14512.8 -0244.7  
310 8.7 14524.2 -0205.6  
311 7.3 14544.7 -0202.0  
312 8.5 14547.8 -0214.3  
313 8.9 14551.2 -0253.7  
314 8.8 14623.7 -0204.0  
315 9.7 14629.5 -0249.0  
316 8.7 14678.7 -0212.4  
317 9.0 14736.3 -0238.4  
318 9.5 14745.8 -0246.6

319 9.8 14808.2 -0246.3  
320 9.4 14819.8 -0259.1  
321 9.5 14843.7 -0217.8  
322 9.7 14852.3 -0211.9  
323 10.1 14910.6 -0250.7  
324 9.8 14939.9 -0259.0  
325 8.5 14949.8 -0252.4  
326 9.3 15004.4 -0236.5  
327 9.5 15006.2 -0231.0  
328 8.8 15015.9 -0250.9

329 9.0 15034.3 -0248.8  
330 6.7 15037.2 -0246.0  
331 8.4 15103.9 -0248.8  
332 9.8 15132.2 -0250.5  
333 8.8 15145.8 -0212.6  
334 9.5 15150.9 -0241.5  
335 10.1 15218.0 -0251.6  
336 9.4 15254.0 -0221.7  
337 9.4 15254.1 -0216.1  
338 9.0 15255.3 -0220.0

339 9.3 15253.8 -0234.2  
340 9.0 15338.8 -0221.3  
341 9.2 15358.9 -0221.5  
342 10.1 15412.9 -0204.7  
343 10.1 15416.6 -0211.9  
344 9.1 15508.3 -0246.5  
345 8.3 15517.5 -0219.7  
346 9.0 15531.6 -0227.1  
347 9.0 15532.1 -0234.4  
348 9.2 15620.7 -0255.2

349 10.1 15628.2 -0245.9  
350 10.1 15628.5 -0242.5  
351 8.7 15636.9 -0245.0  
352 9.4 15645.3 -0206.0  
353 9.3 15648.8 -0222.5  
354 9.1 15712.0 -0247.0  
355 9.7 15716.8 -0240.5  
356 9.0 15742.3 -0240.5  
357 8.3 15742.6 -0244.4  
358 9.4 15751.9 -0231.8

359 9.5 15854.9 -0224.4  
360 8.4 15906.1 -0255.7  
361 8.8 15926.9 -0237.4  
362 7.9 15934.4 -0230.8  
363 9.5 15941.5 -0214.3  
364 9.1 15954.7 -0249.8  
365 9.4 20051.7 -0246.8  
366 9.1 20054.4 -0259.2  
367 9.5 20064.1 -0246.3  
368 10.1 20051.0 -0247.4

369 9.3 20056.3 -0224.5  
370 9.3 20148.9 -0239.2  
371 9.4 20208.0 -0223.2  
372 9.3 20213.3 -0221.2  
373 8.9 20239.0 -0236.3  
374 8.9 20259.9 -0216.5  
375 6.3 20424.4 -0230.5  
376 9.5 20426.6 -0217.1  
377 8.6 20427.4 -0242.4  
378 9.1 20420.4 -0223.5

379 7.9 20520.4 -0254.4  
380 9.7 20557.5 -0242.3  
381 9.2 20615.3 -0210.1  
382 9.6 20642.2 -0255.2  
383 10.1 20657.7 -0244.9  
384 9.2 20715.4 -0251.2  
385 10.1 20744.8 -0250.1  
386 8.5 20805.1 -0236.4  
387 9.3 20806.4 -0241.2  
388 8.9 20858.6 -0229.0



-02 389 2h10m

389 7.8 21026.5 -0242.8  
390 9.5 21034.6 -0210.5  
391 9.9 21043.5 -0247.0  
392 9.1 21122.2 -0212.2  
393 8.5 21136.5 -0224.6  
394 9.1 21139.2 -0252.1  
395 9.7 21145.6 -0251.0  
396 8.4 21226.5 -0253.9  
397 9.3 21307.7 -0214.2  
398 9.8 21358.2 -0224.2  
  
399 9.3 21552.7 -0234.2  
400 9.5 21635.0 -0208.8  
401 8.3 21655.3 -0234.3  
402 9.8 21657.8 -0213.4  
403 8.9 21657.8 -0257.1  
404 8.3 21708.3 -0227.4  
405 8.2 21715.2 -0240.2  
406 8.6 21732.2 -0246.4  
407 9.8 21809.8 -0249.6  
408 8.8 21906.0 -0255.9  
  
409 9.3 21908.1 -0211.2  
410 9.8 21924.2 -0225.2  
411 9.8 21934.2 -0231.6  
412 8.3 22010.7 -0235.8  
413 8.7 22015.6 -0240.2  
414 9.8 22030.6 -0202.9  
415 9.8 22125.8 -0237.6  
416 9.2 22130.2 -0215.1  
417 9.2 22140.2 -0227.6  
418 10. 22215.4 -0259.9  
  
419 8.3 22222.5 -0255.2  
420 9.3 22229.8 -0227.7  
421 9.8 22245.0 -0252.2  
422 8.9 22255.3 -0236.3  
423 7.8 22311.3 -0218.6  
424 9.3 22313.8 -0258.6  
425 9.3 22315.2 -0252.1  
426 8.9 22322.3 -0245.8  
427 9.2 22337.5 -0249.7  
428 9.5 22344.3 -0205.7  
  
429 9.3 22425.2 -0235.4  
430 9.2 22428.2 -0230.9  
431 9.8 22437.7 -0234.4  
432 8.3 22516.6 -0239.6  
433 8.3 22520.2 -0223.7  
434 9.5 22531.3 -0221.5  
435 9.3 22537.1 -0203.0  
436 9.8 22606.3 -0242.1  
437 9.8 22620.7 -0223.7  
438 9.2 22622.8 -0227.4  
  
439 8.9 22635.4 -0251.0  
440 9.5 22659.7 -0221.9  
441 10. 22743.2 -0223.0  
442 9.1 22757.8 -0212.8  
443 9.8 22819.3 -0236.0  
444 8.3 22828.3 -0227.7  
445 9.0 22832.9 -0234.4  
446 9.8 22848.6 -0236.1  
447 9.8 22848.8 -0218.1  
448 9.8 22853.8 -0246.5  
  
449 9.4 22858.6 -0220.5  
450 9.6 22934.3 -0242.6  
451 8.9 22936.3 -0228.3  
452 7.2 22946.8 -0258.1  
453 9.3 22957.3 -0235.3  
454 8.7 23006.1 -0256.6  
455 9.3 23008.3 -0235.0  
456 8.0 23102.7 -0202.2  
457 9.5 23116.3 -0221.4  
458 9.6 23126.4 -0239.0  
  
459 9.6 23129.0 -0253.1  
460 8.7 23134.8 -0212.7  
461 9.8 23135.8 -0223.4  
462 8.0 23156.8 -0231.9  
463 7.8 23158.8 -0242.1  
464 9.8 23220.3 -0221.7  
465 10. 23239.0 -0202.5  
466 9.6 23243.2 -0242.0  
467 10. 23243.5 -0205.7  
468 9.5 23310.4 -0230.2  
  
469 8.3 23320.2 -0232.9  
470 9.6 23332.9 -0241.1  
471 9.4 23341.2 -0211.3  
472 9.3 23353.4 -0230.0  
473 9.2 23401.6 -0221.6  
474 9.6 23434.9 -0240.3  
475 9.3 23440.3 -0211.5  
476 9.0 23457.9 -0258.3  
477 10. 23533.4 -0238.9  
478 9.3 23628.8 -0204.1

479 9.8 23657.9 -0231.8  
480 8.3 23719.9 -0234.7  
481 9.8 23721.8 -0227.7  
482 9.2 23753.4 -0238.4  
483 9.2 23914.9 -0216.3  
484 9.5 23919.8 -0213.6  
485 9.2 23926.3 -0215.0  
486 9.7 23946.9 -0218.6  
487 9.4 24007.3 -0214.5  
488 9.4 24050.5 -0249.8  
  
489 10. 24116.4 -0239.4  
490 9.2 24119.4 -0236.1  
491 8.3 24130.0 -0207.2  
492 10. 24136.3 -0255.2  
493 9.8 24138.8 -0215.0  
494 10. 24145.4 -0239.5  
495 10. 24153.9 -0237.5  
496 9.6 24155.1 -0233.0  
497 9.3 24217.8 -0233.5  
498 9.0 24253.1 -0233.9  
  
499 9.5 24303.9 -0216.4  
500 9.5 24311.9 -0237.4  
501 9.7 24321.8 -0218.9  
502 10. 24408.8 -0259.2  
503 10. 24409.2 -0240.8  
504 9.3 24437.9 -0223.2  
505 9.4 24445.5 -0236.6  
506 9.3 24457.7 -0219.5  
507 9.7 24510.3 -0209.8  
508 9.8 24557.1 -0241.4  
  
509 10. 24609.7 -0228.3  
510 9.4 24611.4 -0226.8  
511 7.8 24613.9 -0214.0  
512 9.5 24615.7 -0216.3  
513 8.8 24619.8 -0203.5  
514 9.8 24628.5 -0237.4  
515 9.0 24630.0 -0246.2  
516 9.1 24642.9 -0204.3  
517 8.3 24733.5 -0254.5  
518 10. 24749.0 -0242.7  
  
519 9.8 24838.9 -0209.0  
520 9.0 24859.5 -0256.4  
521 8.9 24934.9 -0209.6  
522 8.8 24940.5 -0221.5  
523 9.5 25012.4 -0231.5  
524 9.3 25018.9 -0235.0  
525 9.8 25039.4 -0209.6  
526 7.9 25039.7 -0255.1  
527 9.2 25047.0 -0219.3  
528 9.7 25052.4 -0209.2  
  
529 8.5 25102.4 -0209.7  
530 9.5 25225.0 -0241.5  
531 9.2 25227.4 -0206.9  
532 7.8 25242.4 -0223.0  
533 9.7 25317.0 -0231.0  
534 9.5 25330.5 -0205.9  
535 9.5 25341.5 -0222.0  
536 10. 25409.1 -0211.4  
537 9.8 25523.0 -0226.8  
538 7.3 25540.3 -0239.6  
  
539 9.7 25547.9 -0249.7  
540 9.0 25558.9 -0246.4  
541 9.9 25626.3 -0259.6  
542 9.3 25645.5 -0203.6  
543 8.9 25709.3 -0243.9  
544 9.2 25722.3 -0231.6  
545 9.3 25727.2 -0202.1  
546 9.3 25754.1 -0229.9  
547 9.1 25817.3 -0256.6  
548 9.8 25817.8 -0226.5  
  
549 9.8 25825.8 -0215.1  
550 9.8 25912.1 -0237.0  
551 9.1 25917.0 -0213.4  
552 8.5 25924.0 -0209.1  
553 9.2 25924.8 -0221.9  
554 6.8 25952.1 -0221.7  
555 8.5 30019.6 -0212.5  
556 9.1 30047.5 -0222.8  
557 9.4 30107.0 -0211.6  
558 9.5 30110.5 -0207.1  
  
559 9.7 30143.5 -0202.6  
560 9.7 30148.4 -0229.3  
561 9.7 30245.4 -0219.6  
562 9.8 30248.2 -0204.0  
563 7.7 30257.2 -0214.7  
564 9.8 30257.7 -0254.5  
565 9.8 30308.3 -0217.4  
566 9.8 30314.4 -0244.4  
567 9.8 30341.9 -0202.9  
568 9.5 30347.6 -0242.2

569 9.0 30400.1 -0239.0  
570 9.8 30418.7 -0205.3  
571 9.1 30444.5 -0254.6  
572 8.5 30445.3 -0259.5  
573 9.0 30528.4 -0242.0  
574 9.8 30532.9 -0224.4  
575 9.8 30539.3 -0208.8  
576 9.5 30544.9 -0227.2  
577 9.8 30553.8 -0210.4  
578 9.8 30609.2 -0247.6  
  
579 9.8 30706.9 -0236.9  
580 9.4 30715.3 -0245.7  
581 7.2 30717.1 -0252.3  
582 9.5 30752.0 -0207.0  
583 8.7 30805.1 -0243.0  
584 9.8 30807.4 -0214.4  
585 9.8 30827.8 -0240.8  
586 9.1 30840.9 -0223.1  
587 8.9 30848.5 -0236.2  
588 9.8 30851.6 -0202.8  
  
589 9.3 30857.7 -0252.7  
590 9.8 30908.1 -0238.9  
591 10. 30916.7 -0201.2  
592 9.4 30931.2 -0200.5  
593 9.8 31001.6 -0203.7  
594 9.2 31028.5 -0223.0  
595 9.8 31044.3 -0245.8  
596 10. 31046.6 -0226.8  
597 9.5 31058.9 -0205.0  
598 8.8 31111.2 -0209.0  
  
599 9.6 31140.7 -0239.5  
600 9.5 31141.9 -0231.9  
601 9.3 31154.8 -0256.3  
602 9.5 31211.6 -0231.5  
603 8.7 31223.6 -0235.7  
604 7.7 31241.5 -0207.2  
605 9.2 31244.5 -0204.7  
606 9.1 31248.5 -0203.8  
607 8.3 31306.0 -0216.9  
608 9.8 31333.6 -0219.2  
  
609 9.2 31434.3 -0235.2  
610 9.7 31458.2 -0253.5  
611 8.5 31531.8 -0234.5  
612 8.3 31551.0 -0200.6  
613 9.5 31613.3 -0244.2  
614 9.8 31629.1 -0207.0  
615 8.5 31635.6 -0258.5  
616 9.8 31645.2 -0216.2  
617 9.5 31653.7 -0223.5  
618 8.7 31738.2 -0250.5  
  
619 8.6 31751.9 -0214.3  
620 9.4 31801.3 -0230.0  
621 8.9 31834.9 -0200.2  
622 9.6 31857.5 -0250.0  
623 8.9 31901.0 -0239.1  
624 9.4 31901.5 -0205.4  
625 9.6 31905.4 -0241.4  
626 10. 31906.1 -0206.9  
627 8.8 31907.1 -0218.8  
628 9.8 31908.7 -0222.6  
  
629 9.3 31926.8 -0230.9  
630 9.1 31928.6 -0254.2  
631 9.8 32034.1 -0206.7  
632 9.6 32037.7 -0217.7  
633 8.0 32050.0 -0259.4  
634 9.5 32050.9 -0239.4  
635 8.9 32056.8 -0221.7  
636 8.9 32117.9 -0248.5  
637 9.4 32125.7 -0255.4  
638 10. 32204.0 -0241.2  
  
639 9.5 32212.3 -0257.7  
640 8.6 32215.7 -0214.7  
641 9.8 32217.6 -0225.3  
642 9.3 32321.8 -0226.5  
643 8.9 32324.8 -0229.6  
644 9.0 32325.7 -0216.7  
645 9.8 32339.2 -0215.4  
646 8.8 32339.5 -0258.4  
647 9.4 32340.7 -0237.2  
648 8.6 32346.5 -0245.2  
  
649 8.9 32459.2 -0211.1  
650 9.6 32505.6 -0246.3  
651 8.3 32521.2 -0209.4  
652 7.5 32552.3 -0221.1  
653 9.8 32555.6 -0203.9  
654 9.1 32603.5 -0200.1  
655 9.0 32640.8 -0245.1  
656 9.0 32642.2 -0238.9  
657 9.8 32719.4 -0253.9  
658 9.0 32722.8 -0247.5

659 9.8 32729.5 -0253.5  
660 9.6 32731.7 -0215.0  
661 9.4 32735.0 -0227.5  
662 9.7 32735.2 -0254.8  
663 9.8 32738.2 -0246.5  
664 9.4 32820.3 -0235.3  
665 9.8 32825.1 -0214.5  
666 9.8 32836.9 -0238.0  
667 9.0 32844.2 -0250.8  
668 8.7 32900.0 -0203.4  
  
669 9.5 32909.1 -0201.1  
670 9.4 32934.6 -0202.3  
671 9.8 33006.6 -0207.5  
672 9.7 33008.9 -0240.0  
673 9.8 33038.4 -0236.3  
674 9.7 33052.0 -0246.4  
675 8.7 33056.2 -0213.1  
676 9.0 33103.9 -0222.7  
677 8.7 33104.6 -0202.7  
678 9.8 33105.3 -0252.7  
  
679 7.8 33114.4 -0233.7  
680 9.2 33120.7 -0219.2  
681 7.7 33133.0 -0200.0  
682 9.8 33150.2 -0224.0  
683 7.8 33223.5 -0204.0  
684 8.3 33231.2 -0223.4  
685 9.9 33236.3 -0228.8  
686 8.0 33250.7 -0222.1  
687 9.8 33307.5 -0203.4  
688 9.8 33309.2 -0257.5  
  
689 9.3 33316.5 -0241.4  
690 7.5 33325.5 -0247.9  
691 9.0 33335.1 -0208.0  
692 9.0 33337.4 -0236.6  
693 8.8 33342.9 -0239.7  
694 9.6 33359.8 -0224.7  
695 9.3 33402.0 -0253.0  
696 9.6 33428.4 -0215.3  
697 10. 33433.4 -0210.6  
698 9.8 33509.3 -02 9.1  
  
699 9.1 33513.5 -0243.2  
700 9.8 33528.2 -0249.8  
701 9.0 33545.4 -0241.2  
702 7.5 33602.8 -0231.8  
703 7.8 33616.8 -0231.2  
704 9.3 33627.6 -0240.6  
705 9.8 33635.6 -0201.0  
706 10. 33642.4 -0235.4  
707 8.3 33645.3 -0225.9  
708 9.5 33708.9 -0229.5  
  
709 9.8 33718.3 -0220.4  
710 9.6 33741.0 -0250.0  
711 9.3 33801.2 -0215.0  
712 9.8 33813.1 -0250.6  
713 9.6 33828.4 -0229.6  
714 9.1 33905.2 -0210.6  
715 9.8 33936.1 -0251.9  
716 9.5 33939.2 -0211.5  
717 8.8 34008.8 -0245.3  
718 9.7 34011.3 -0219.6  
  
719 9.7 34014.2 -0248.6  
720 9.5 34014.2 -0239.9  
721 8.3 34108.3 -0235.0  
722 9.1 34112.4 -0231.0  
723 7.8 34126.7 -0252.7  
724 9.8 34130.4 -0228.5  
725 9.5 34206.9 -0235.9  
726 7.3 34220.3 -0246.5  
727 9.8 34223.1 -0257.6  
728 9.7 34232.7 -0222.9  
  
729 9.8 34234.3 -0251.9  
730 8.8 34241.3 -0244.2  
731 9.1 34244.8 -0225.3  
732 9.6 34311.2 -0213.2  
733 10. 34317.6 -0248.9  
734 9.8 34335.1 -0257.4  
735 9.2 34335.9 -0249.6  
736 9.8 34359.8 -0232.5  
737 8.9 34409.2 -0224.7  
738 8.8 34417.6 -0251.5  
  
739 8.3 34440.2 -0203.9  
740 9.5 34453.4 -0243.7  
741 10. 34508.2 -0223.8  
742 8.8 34519.1 -0245.9  
743 9.5 34529.5 -0245.1  
744 9.8 34546.3 -0228.2  
745 9.0 34548.0 -0216.4  
746 9.4 34549.2 -0216.5  
747 8.0 34551.8 -0225.8  
748 9.4 34601.3 -0228.9

-02 748 3h46m



-02 749 3h46m

749 9.5 34651.7 -0225.0  
750 10. 34707.1 -0241.5  
751 10. 34739.1 -0245.7  
752 9.4 34742.7 -0225.9  
753 9.4 34750.3 -0256.1  
754 9.0 34759.9 -0209.5  
755 9.8 34810.5 -0235.7  
756 10. 34816.0 -0227.0  
757 10. 34832.6 -0218.7  
758 9.6 34900.2 -0244.6  
  
759 9.5 34910.4 -0258.7  
760 9.2 34941.4 -0257.8  
761 9.9 34951.9 -0251.8  
762 9.2 34958.0 -0200.2  
763 9.8 35015.9 -0252.0  
764 8.8 35016.7 -0224.0  
765 9.1 35025.4 -0244.4  
766 10. 35041.1 -0246.6  
767 9.8 35056.2 -0242.1  
768 9.5 35107.0 -0237.9  
  
769 10. 35130.4 -0212.9  
770 8.5 35205.0 -0209.3  
771 9.8 35206.1 -0220.8  
772 10. 35229.5 -0234.0  
773 10. 35346.0 -0255.0  
774 9.4 35353.1 -0227.7  
775 9.2 35418.9 -0238.1  
776 9.5 35429.7 -0216.5  
777 8.0 35456.8 -0202.4  
778 9.8 35505.2 -0243.2  
  
779 10. 35514.6 -0212.0  
780 9.9 35534.0 -0208.2  
781 9.1 35558.4 -0258.9  
782 8.2 35600.3 -0246.2  
783 9.0 35605.5 -0253.9  
784 9.2 35607.0 -0207.9  
785 9.3 35610.8 -0219.7  
786 9.0 35629.4 -0224.2  
787 9.1 35641.0 -0227.1  
788 9.4 35641.8 -0203.0  
  
789 9.5 35707.5 -0208.3  
790 9.5 35709.4 -0207.9  
791 9.6 35711.4 -0247.1  
792 9.5 35712.5 -0238.5  
793 9.3 35712.8 -0226.7  
794 9.7 35728.2 -0254.7  
795 9.5 35728.2 -0242.8  
796 9.2 35730.9 -0222.6  
797 9.2 35735.5 -0222.8  
798 6.8 35735.6 -0249.7  
  
799 9.0 35750.1 -0210.3  
800 8.6 35750.7 -0217.5  
801 9.6 35812.1 -0240.8  
802 9.7 35812.4 -0248.8  
803 9.3 35818.6 -0229.1  
804 9.7 35827.6 -0254.1  
805 9.5 35840.0 -0249.7  
806 9.9 35911.8 -0217.2  
807 8.5 35923.3 -0218.2  
808 9.7 35924.2 -0217.1  
  
809 9.7 35931.6 -0255.2  
810 9.8 35949.5 -0255.2  
811 9.8 35950.8 -0224.6  
812 9.4 35951.6 -0230.2  
813 9.4 35954.3 -0231.7  
814 8.2 40003.9 -0245.9  
815 10. 40016.6 -0228.2  
816 9.0 40022.2 -0200.7  
817 9.3 40029.8 -0255.7  
818 9.6 40033.2 -0200.0  
  
819 9.8 40142.1 -0240.6  
820 8.5 40215.3 -0204.0  
821 9.8 40241.3 -0218.0  
822 9.4 40254.0 -0239.6  
823 9.7 40316.4 -0234.8  
824 9.8 40317.9 -0223.1  
825 9.8 40332.5 -0208.4  
826 8.6 40337.4 -0252.4  
827 10. 40400.5 -0242.3  
828 10. 40415.9 -0206.1  
  
829 10. 40504.0 -0221.7  
830 9.8 40509.4 -0250.7  
831 10. 40509.5 -0228.2  
832 7.6 40515.2 -0253.6  
833 9.8 40534.3 -0216.6  
834 9.0 40542.3 -0217.5  
835 9.2 40545.2 -0256.8  
836 9.5 40547.4 -0235.4  
837 9.9 40548.7 -0214.1  
838 10. 40550.0 -0250.5

839 9.9 40600.0 -0236.7  
840 9.5 40642.1 -0257.7  
841 8.7 40701.7 -0252.4  
842 9.3 40703.2 -0228.1  
843 9.4 40716.1 -0209.0  
844 7.8 40718.8 -0230.4  
845 10. 40816.4 -0246.7  
846 9.9 40841.3 -0203.9  
847 9.3 40904.0 -0259.0  
848 8.2 40917.6 -0244.5  
  
849 10. 40918.9 -0221.0  
850 9.4 40922.0 -0239.4  
851 9.7 40920.9 -0259.0  
852 9.2 40933.5 -0238.3  
853 8.9 40959.5 -0237.8  
854 9.5 41006.3 -0227.4  
855 8.8 41021.1 -0212.4  
856 9.2 41022.1 -0259.6  
857 9.8 41049.9 -0202.4  
858 8.5 41101.3 -0245.6  
  
859 9.3 41112.7 -0259.8  
860 9.5 41120.6 -0241.5  
861 9.9 41156.0 -0235.6  
862 9.6 41200.4 -0233.6  
863 9.0 41202.5 -0205.0  
864 8.7 41227.8 -0249.0  
865 9.2 41229.7 -0213.0  
866 9.1 41247.4 -0201.4  
867 6.7 41257.7 -0259.0  
868 9.2 41258.9 -0218.8  
  
869 9.1 41308.0 -0219.7  
870 9.2 41314.8 -0245.9  
871 9.1 41316.5 -0204.0  
872 9.8 41319.3 -0241.8  
873 9.0 41321.5 -0205.2  
874 9.0 41341.4 -0218.3  
875 9.7 41344.6 -0257.8  
876 9.4 41353.2 -0209.4  
877 10. 41427.1 -0255.0  
878 9.4 41433.0 -0222.0  
  
879 10. 41446.3 -0227.1  
880 9.5 41504.0 -0220.5  
881 9.8 41504.3 -0246.2  
882 9.4 41512.1 -0239.7  
883 8.3 41524.4 -0235.1  
884 8.5 41525.8 -0215.8  
885 9.3 41531.5 -0241.5  
886 9.3 41557.9 -0240.0  
887 8.8 41612.8 -0249.7  
888 9.8 41637.6 -0221.3  
  
889 9.8 41647.7 -0216.0  
890 10. 41649.3 -0242.8  
891 9.0 41704.9 -0252.4  
892 9.6 41728.2 -0224.3  
893 9.2 41730.5 -0250.4  
894 9.4 41745.3 -0244.3  
895 9.5 41748.0 -0235.7  
896 9.9 41801.2 -0223.3  
897 9.6 41804.0 -0219.5  
898 9.7 41809.7 -0211.3  
  
899 7.3 41822.9 -0234.1  
900 9.8 41826.2 -0210.1  
901 10. 41831.5 -0244.2  
902 9.5 41844.9 -0217.5  
903 8.5 41928.4 -0203.4  
904 8.5 41937.2 -0229.6  
905 8.6 42006.0 -0220.9  
906 10. 42031.9 -0238.2  
907 9.9 42034.2 -0226.2  
908 9.2 42059.8 -0246.2  
  
909 10. 42101.5 -0219.6  
910 9.8 42113.1 -0236.8  
911 10. 42134.7 -0256.0  
912 9.7 42143.8 -0238.2  
913 9.6 42148.9 -0212.7  
914 9.1 42157.4 -0241.4  
915 7.9 42208.7 -0244.3  
916 9.7 42213.5 -0202.2  
917 9.5 42213.9 -0240.3  
918 9.1 42227.1 -0248.1  
  
919 9.8 42241.2 -0251.5  
920 8.5 42242.6 -0239.6  
921 9.8 42258.9 -0245.3  
922 9.9 42315.0 -0248.7  
923 8.3 42315.5 -0232.8  
924 10. 42319.7 -0250.4  
925 9.8 42326.6 -0243.4  
926 9.7 42358.0 -0220.5  
927 9.7 42413.1 -0214.9  
928 9.7 42428.4 -0251.2

929 8.9 42439.5 -0214.0  
930 8.7 42446.2 -0217.4  
931 9.6 42514.2 -0259.4  
932 9.7 42518.6 -0244.2  
933 9.6 42540.5 -0259.4  
934 10. 42553.4 -0205.7  
935 9.9 42559.4 -0233.0  
936 9.8 42611.9 -0254.9  
937 9.7 42618.7 -0239.8  
938 7.7 42619.3 -0208.2  
  
939 8.9 42626.0 -0245.6  
940 9.7 42627.1 -0216.9  
941 9.7 42634.8 -0259.8  
942 8.1 42716.2 -0223.1  
943 9.6 42716.7 -0204.0  
944 8.5 42730.0 -0209.4  
945 9.0 42736.9 -0259.1  
946 9.8 42801.0 -0213.2  
947 9.8 42815.1 -0217.6  
948 9.8 42818.8 -0254.6  
  
949 9.5 42836.7 -0257.6  
950 10. 42837.5 -0242.2  
951 9.2 42839.9 -0254.8  
952 8.0 42843.6 -0231.5  
953 9.4 42852.6 -0209.1  
954 9.5 42859.8 -0205.6  
955 10. 42919.6 -0253.3  
956 9.4 42923.0 -0222.5  
957 10. 42935.4 -0258.9  
958 10. 42950.8 -0203.8  
  
959 9.6 43000.7 -0239.8  
960 9.8 43007.7 -0231.9  
961 6.7 43014.3 -0250.0  
962 9.3 43017.0 -0257.3  
963 5.1 43018.6 -0245.9  
964 7.2 43026.0 -0256.5  
965 9.8 43027.9 -0245.9  
966 8.7 43032.1 -0259.9  
967 9.2 43029.3 -0252.9  
968 9.8 43040.0 -0215.2  
  
969 9.4 43103.5 -0214.2  
970 9.9 43137.2 -0238.7  
971 9.4 43152.5 -0248.5  
972 9.5 43156.5 -0213.2  
973 10. 43203.9 -0227.8  
974 10. 43229.7 -0220.7  
975 9.3 43236.1 -0236.7  
976 9.6 43247.9 -0210.4  
977 9.7 43301.6 -0250.2  
978 10. 43307.0 -0215.9  
  
979 9.5 43322.5 -0212.6  
980 10. 43329.6 -0250.0  
981 10. 43331.8 -0207.2  
982 8.3 43338.0 -0214.1  
983 8.1 43340.8 -0258.5  
984 9.8 43349.7 -0237.5  
985 9.0 43419.8 -0244.0  
986 10. 43421.8 -0210.4  
987 9.8 43423.1 -0247.8  
988 8.5 43424.8 -0225.3  
  
989 9.8 43441.6 -0218.2  
990 9.5 43512.3 -0224.4  
991 10. 43518.2 -0240.5  
992 8.8 43539.1 -0256.5  
993 10. 43543.9 -0227.5  
994 9.7 43559.8 -0258.3  
995 9.3 43603.2 -0237.4  
996 9.1 43622.8 -0223.5  
997 9.5 43632.5 -0207.3  
998 9.0 43634.5 -0252.5  
  
999 9.5 43636.1 -0259.1  
1000 9.0 43653.7 -0218.9  
1001 10. 43708.5 -0225.8  
1002 9.9 43724.4 -0239.8  
1003 9.9 43717.1 -0236.3  
1004 8.7 43803.4 -0256.6  
1005 10. 43803.7 -0218.4  
1006 9.4 43820.8 -0210.6  
1007 9.4 43839.2 -0244.3  
1008 10. 43850.7 -0200.8  
  
1009 9.0 43908.5 -0220.2  
1010 9.1 43911.0 -0228.5  
1011 9.4 43941.3 -0209.4  
1012 9.4 43945.9 -0254.8  
1013 9.8 43949.5 -0220.4  
1014 9.6 43952.8 -0243.0  
1015 9.8 44020.0 -0249.5  
1016 9.0 44027.8 -0250.7  
1017 9.5 44033.6 -0209.9  
1018 10. 44044.4 -0207.8

1019 9.4 44100.3 -0249.0  
1020 9.7 44102.6 -0213.9  
1021 8.6 44104.1 -0207.3  
1022 9.8 44106.0 -0224.4  
1023 9.9 44113.0 -0203.3  
1024 9.5 44115.2 -0224.6  
1025 8.7 44128.4 -0253.9  
1026 9.7 44150.1 -0255.3  
1027 10. 44202.2 -0201.2  
1028 9.1 44208.2 -0246.9  
  
1029 9.3 44213.8 -0222.3  
1030 9.5 44216.7 -0201.5  
1031 10. 44228.7 -0252.3  
1032 8.2 44237.9 -0243.9  
1033 10. 44239.0 -0208.8  
1034 10. 44251.8 -0237.4  
1035 10. 44301.4 -0206.9  
1036 10. 44346.2 -0204.2  
1037 9.9 44351.2 -0257.1  
1038 10. 44354.3 -0205.3  
  
1039 9.8 44401.4 -0224.5  
1040 9.8 44407.8 -0205.7  
1041 9.8 44408.7 -0250.5  
1042 9.2 44426.7 -0258.4  
1043 9.2 44435.5 -0211.5  
1044 9.4 44436.3 -0246.2  
1045 10. 44444.4 -0241.0  
1046 10. 44445.3 -0246.4  
1047 9.3 44447.6 -0213.5  
1048 9.8 44451.8 -0236.1  
  
1049 8.6 44500.5 -0251.6  
1050 9.5 44524.1 -0216.0  
1051 10. 44533.3 -0206.8  
1052 9.0 44556.7 -0200.3  
1053 8.3 44601.5 -0250.8  
1054 8.7 44613.0 -0200.7  
1055 9.9 44613.3 -0257.0  
1056 9.5 44627.5 -0209.7  
1057 9.2 44637.3 -0229.5  
1058 10. 44649.1 -0238.1  
  
1059 10. 44707.6 -0247.6  
1060 9.0 44708.5 -0209.6  
1061 8.3 44716.5 -0202.2  
1062 9.5 44738.1 -0230.4  
1063 8.8 44747.7 -0250.3  
1064 9.4 44751.1 -0257.8  
1065 9.6 44758.7 -0254.4  
1066 10. 44802.8 -0223.0  
1067 9.6 44805.0 -0227.1  
1068 9.5 44814.3 -0250.5  
  
1069 8.3 44827.7 -0234.4  
1070 8.5 44859.9 -0206.5  
1071 10. 44910.1 -0249.6  
1072 9.2 44912.4 -0224.8  
1073 9.8 44927.1 -0257.5  
1074 9.2 44935.4 -0257.0  
1075 9.1 44936.2 -0257.5  
1076 9.8 44940.4 -0246.0  
1077 9.4 45047.3 -0241.9  
1078 10. 45047.5 -0239.7  
  
1079 9.8 45048.9 -0206.0  
1080 6.3 45052.1 -0226.3  
1081 10. 45112.9 -0210.8  
1082 9.3 45141.1 -0212.7  
1083 7.8 45147.3 -0221.7  
1084 9.4 45156.6 -0239.7  
1085 9.9 45158.9 -0242.9  
1086 9.8 45203.0 -0227.5  
1087 9.5 45207.4 -0221.4  
1088 8.8 45210.7 -0217.1  
  
1089 10. 45228.6 -0242.3  
1090 10. 45228.7 -0245.9  
1091 10. 45237.5 -0243.4  
1092 8.7 45245.8 -0259.4  
1093 9.9 45251.2 -0235.6  
1094 8.3 45257.0 -0209.4  
1095 6.5 45320.8 -0216.8  
1096 9.9 45331.3 -0236.2  
1097 9.3 45335.4 -0207.1  
1098 9.2 45337.0 -0238.2  
  
1099 10. 45345.1 -0241.2  
1100 9.4 45345.7 -0242.5  
1101 10. 45354.6 -0238.4  
1102 9.5 45357.4 -0234.6  
1103 9.5 45420.3 -0202.4  
1104 8.0 45422.1 -0256.1  
1105 9.6 45511.7 -0210.3  
1106 9.4 45529.8 -0200.0  
1107 9.4 45547.9 -0240.9  
1108 9.2 45607.2 -0212.9

-02 1108 4h56m



-02 1109 6H5m

1109 9.2 45616.8 -0220.1  
 1110 9.0 45615.5 -0220.1  
 1111 7.0 45616.1 -0220.1  
 1112 9.9 45617.5 -0220.1  
 1113 9.5 45616.8 -0220.1  
 1114 9.8 45619.5 -0220.1  
 1115 9.5 45615.0 -0220.1  
 1116 9.4 45702.0 -0220.8  
 1117 8.8 45715.0 -0220.3  
 1118 9.5 45716.2 -0220.1

1119 9.5 45719.8 -0220.1  
 1120 9.3 45725.7 -0220.1  
 1121 10.1 45725.1 -0220.5  
 1122 9.7 45726.8 -0220.5  
 1123 10.1 45809.8 -0220.7  
 1124 9.7 45808.7 -0220.7  
 1125 9.5 45809.5 -0220.7  
 1126 9.1 45815.3 -0220.7  
 1127 9.0 45818.3 -0220.1  
 1128 9.8 45822.0 -0220.8

1129 9.9 45815.1 -0220.8  
 1130 8.6 45822.1 -0220.8  
 1131 9.3 45829.1 -0220.8  
 1132 9.5 45900.5 -0220.5  
 1133 9.5 45906.9 -0220.4  
 1134 9.5 45909.8 -0220.8  
 1135 8.8 45907.7 -0220.1  
 1136 8.8 45913.0 -0220.9  
 1137 9.5 45920.1 -0220.5  
 1138 9.5 45920.7 -0220.1

1139 9.5 45924.8 -0220.8  
 1140 9.5 45925.4 -0220.8  
 1141 9.5 45925.1 -0220.8  
 1142 9.0 45956.3 -0220.7  
 1143 9.3 45959.5 -0220.7  
 1144 8.5 45959.0 -0220.8  
 1145 9.5 45959.1 -0220.7  
 1146 10.1 45957.0 -0220.7  
 1147 9.5 45957.5 -0220.7  
 1148 9.5 45957.5 -0220.7

1149 8.5 45958.1 -0220.7  
 1150 8.5 45958.6 -0220.7  
 1151 9.0 45958.8 -0220.7  
 1152 9.5 45959.1 -0220.7  
 1153 9.4 45959.0 -0220.7  
 1154 9.0 45959.1 -0220.7  
 1155 7.0 45959.8 -0220.7  
 1156 9.7 45959.6 -0220.7  
 1157 9.7 45959.0 -0220.7  
 1158 8.5 45959.5 -0220.7

1159 9.5 45959.8 -0220.7  
 1160 9.5 45959.7 -0220.7  
 1161 7.0 45959.0 -0220.7  
 1162 9.7 45959.3 -0220.7  
 1163 9.5 45959.6 -0220.7  
 1164 9.5 45959.8 -0220.7  
 1165 6.0 45959.3 -0220.7  
 1166 9.0 45959.5 -0220.7  
 1167 9.5 45959.9 -0220.7  
 1168 9.5 45959.7 -0220.7

1169 9.2 45959.9 -0220.7  
 1170 9.5 45959.9 -0220.7  
 1171 9.5 45959.9 -0220.7  
 1172 9.5 45959.9 -0220.7  
 1173 9.5 45959.9 -0220.7  
 1174 9.5 45959.9 -0220.7  
 1175 9.5 45959.9 -0220.7  
 1176 9.7 45959.9 -0220.7  
 1177 9.5 45959.9 -0220.7  
 1178 9.5 45959.9 -0220.7

1179 9.2 45959.9 -0220.7  
 1180 9.5 45959.9 -0220.7  
 1181 8.5 45959.9 -0220.7  
 1182 9.0 45959.9 -0220.7  
 1183 9.5 45959.9 -0220.7  
 1184 10.1 45959.9 -0220.7  
 1185 9.5 45959.9 -0220.7  
 1186 9.5 45959.9 -0220.7  
 1187 9.5 45959.9 -0220.7  
 1188 9.0 45959.9 -0220.7

1189 10.1 45959.9 -0220.7  
 1190 9.5 45959.9 -0220.7  
 1191 10.1 45959.9 -0220.7  
 1192 9.5 45959.9 -0220.7  
 1193 9.4 45959.9 -0220.7  
 1194 9.4 45959.9 -0220.7  
 1195 9.5 45959.9 -0220.7  
 1196 9.5 45959.9 -0220.7  
 1197 10.1 45959.9 -0220.7  
 1198 9.5 45959.9 -0220.7

1199 9.5 45959.9 -0220.7  
 1200 9.0 45959.9 -0220.7  
 1201 9.5 45959.9 -0220.7  
 1202 9.5 45959.9 -0220.7  
 1203 9.5 45959.9 -0220.7  
 1204 9.5 45959.9 -0220.7  
 1205 9.5 45959.9 -0220.7  
 1206 9.5 45959.9 -0220.7  
 1207 9.5 45959.9 -0220.7  
 1208 9.5 45959.9 -0220.7

1209 10.1 45959.9 -0220.7  
 1210 9.6 45959.9 -0220.7  
 1211 9.4 45959.9 -0220.7  
 1212 9.1 45959.9 -0220.7  
 1213 9.8 45959.9 -0220.7  
 1214 9.0 45959.9 -0220.7  
 1215 9.3 45959.9 -0220.7  
 1216 8.5 45959.9 -0220.7  
 1217 9.2 45959.9 -0220.7  
 1218 9.5 45959.9 -0220.7

1219 9.2 45959.9 -0220.7  
 1220 9.5 45959.9 -0220.7  
 1221 9.0 45959.9 -0220.7  
 1222 8.0 45959.9 -0220.7  
 1223 9.5 45959.9 -0220.7  
 1224 9.7 45959.9 -0220.7  
 1225 8.5 45959.9 -0220.7  
 1226 9.0 45959.9 -0220.7  
 1227 9.5 45959.9 -0220.7  
 1228 9.5 45959.9 -0220.7

1229 9.4 45959.9 -0220.7  
 1230 9.0 45959.9 -0220.7  
 1231 9.3 45959.9 -0220.7  
 1232 9.0 45959.9 -0220.7  
 1233 9.6 45959.9 -0220.7  
 1234 9.5 45959.9 -0220.7  
 1235 9.7 45959.9 -0220.7  
 1236 9.5 45959.9 -0220.7  
 1237 9.5 45959.9 -0220.7  
 1238 9.2 45959.9 -0220.7

1239 9.5 45959.9 -0220.7  
 1240 9.8 45959.9 -0220.7  
 1241 8.0 45959.9 -0220.7  
 1242 9.5 45959.9 -0220.7  
 1243 9.5 45959.9 -0220.7  
 1244 9.5 45959.9 -0220.7  
 1245 8.5 45959.9 -0220.7  
 1246 9.0 45959.9 -0220.7  
 1247 9.5 45959.9 -0220.7  
 1248 9.5 45959.9 -0220.7

1249 9.8 45959.9 -0220.7  
 1250 7.5 45959.9 -0220.7  
 1251 9.5 45959.9 -0220.7  
 1252 9.5 45959.9 -0220.7  
 1253 9.0 45959.9 -0220.7  
 1254 8.0 45959.9 -0220.7  
 1255 9.5 45959.9 -0220.7  
 1256 9.5 45959.9 -0220.7  
 1257 9.0 45959.9 -0220.7  
 1258 9.5 45959.9 -0220.7

1259 9.0 45959.9 -0220.7  
 1260 8.5 45959.9 -0220.7  
 1261 9.0 45959.9 -0220.7  
 1262 9.7 45959.9 -0220.7  
 1263 8.5 45959.9 -0220.7  
 1264 9.0 45959.9 -0220.7  
 1265 9.2 45959.9 -0220.7  
 1266 8.5 45959.9 -0220.7  
 1267 9.7 45959.9 -0220.7  
 1268 9.0 45959.9 -0220.7

1269 9.7 45959.9 -0220.7  
 1270 9.5 45959.9 -0220.7  
 1271 9.0 45959.9 -0220.7  
 1272 9.2 45959.9 -0220.7  
 1273 9.5 45959.9 -0220.7  
 1274 8.8 45959.9 -0220.7  
 1275 9.0 45959.9 -0220.7  
 1276 9.7 45959.9 -0220.7  
 1277 9.5 45959.9 -0220.7  
 1278 9.5 45959.9 -0220.7

1279 8.5 45959.9 -0220.7  
 1280 9.3 45959.9 -0220.7  
 1281 9.5 45959.9 -0220.7  
 1282 9.5 45959.9 -0220.7  
 1283 9.5 45959.9 -0220.7  
 1284 10.1 45959.9 -0220.7  
 1285 9.0 45959.9 -0220.7  
 1286 9.0 45959.9 -0220.7  
 1287 9.5 45959.9 -0220.7  
 1288 9.7 45959.9 -0220.7

1289 10.1 45959.9 -0220.7  
 1290 9.4 45959.9 -0220.7  
 1291 9.5 45959.9 -0220.7  
 1292 9.4 45959.9 -0220.7  
 1293 9.3 45959.9 -0220.7  
 1294 8.2 45959.9 -0220.7  
 1295 9.2 45959.9 -0220.7  
 1296 7.8 45959.9 -0220.7  
 1297 8.5 45959.9 -0220.7  
 1298 9.5 45959.9 -0220.7

1299 9.5 45959.9 -0220.7  
 1300 9.5 45959.9 -0220.7  
 1301 10.1 45959.9 -0220.7  
 1302 9.5 45959.9 -0220.7  
 1303 9.0 45959.9 -0220.7  
 1304 10.1 45959.9 -0220.7  
 1305 9.0 45959.9 -0220.7  
 1306 9.5 45959.9 -0220.7  
 1307 8.5 45959.9 -0220.7  
 1308 9.8 45959.9 -0220.7

1309 8.8 45959.9 -0220.7  
 1310 10.1 45959.9 -0220.7  
 1311 8.5 45959.9 -0220.7  
 1312 9.5 45959.9 -0220.7  
 1313 9.5 45959.9 -0220.7  
 1314 9.7 45959.9 -0220.7  
 1315 9.7 45959.9 -0220.7  
 1316 8.9 45959.9 -0220.7  
 1317 9.5 45959.9 -0220.7  
 1318 9.5 45959.9 -0220.7

1319 8.5 45959.9 -0220.7  
 1320 9.5 45959.9 -0220.7  
 1321 9.5 45959.9 -0220.7  
 1322 10.1 45959.9 -0220.7  
 1323 9.0 45959.9 -0220.7  
 1324 9.2 45959.9 -0220.7  
 1325 9.5 45959.9 -0220.7  
 1326 9.0 45959.9 -0220.7  
 1327 9.5 45959.9 -0220.7  
 1328 9.5 45959.9 -0220.7

1329 9.0 45959.9 -0220.7  
 1330 9.0 45959.9 -0220.7  
 1331 9.7 45959.9 -0220.7  
 1332 9.1 45959.9 -0220.7  
 1333 8.5 45959.9 -0220.7  
 1334 9.7 45959.9 -0220.7  
 1335 9.0 45959.9 -0220.7  
 1336 9.3 45959.9 -0220.7  
 1337 7.5 45959.9 -0220.7  
 1338 2.0 45959.9 -0220.7

1339 9.4 45959.9 -0220.7  
 1340 9.5 45959.9 -0220.7  
 1341 9.1 45959.9 -0220.7  
 1342 9.5 45959.9 -0220.7  
 1343 6.5 45959.9 -0220.7  
 1344 8.5 45959.9 -0220.7  
 1345 8.5 45959.9 -0220.7  
 1346 7.5 45959.9 -0220.7  
 1347 10.1 45959.9 -0220.7  
 1348 8.7 45959.9 -0220.7

1349 9.3 45959.9 -0220.7  
 1350 8.5 45959.9 -0220.7  
 1351 9.0 45959.9 -0220.7  
 1352 9.7 45959.9 -0220.7  
 1353 9.7 45959.9 -0220.7  
 1354 9.7 45959.9 -0220.7  
 1355 9.5 45959.9 -0220.7  
 1356 9.0 45959.9 -0220.7  
 1357 8.8 45959.9 -0220.7  
 1358 8.5 45959.9 -0220.7

1359 9.5 45959.9 -0220.7  
 1360 9.5 45959.9 -0220.7  
 1361 9.6 45959.9 -0220.7  
 1362 10.1 45959.9 -0220.7  
 1363 9.4 45959.9 -0220.7  
 1364 9.5 45959.9 -0220.7  
 1365 9.5 45959.9 -0220.7  
 1366 9.0 45959.9 -0220.7  
 1367 9.5 45959.9 -0220.7  
 1368 9.8 45959.9 -0220.7

1369 9.5 45959.9 -0220.7  
 1370 9.5 45959.9 -0220.7  
 1371 9.5 45959.9 -0220.7  
 1372 9.5 45959.9 -0220.7  
 1373 8.0 45959.9 -0220.7  
 1374 9.8 45959.9 -0220.7  
 1375 9.0 45959.9 -0220.7  
 1376 9.5 45959.9 -0220.7  
 1377 9.5 45959.9 -0220.7  
 1378 9.5 45959.9 -0220.7

-02 1468 5h57m

1379 9.2 45959.9 -0220.7  
 1380 9.4 45959.9 -0220.7  
 1381 9.8 45959.9 -0220.7  
 1382 9.5 45959.9 -0220.7  
 1383 9.5 45959.9 -0220.7  
 1384 9.3 45959.9 -0220.7  
 1385 9.3 45959.9 -0220.7  
 1386 9.0 45959.9 -0220.7  
 1387 9.4 45959.9 -0220.7  
 1388 9.4 45959.9 -0220.7

1389 9.3 45959.9 -0220.7  
 1390 9.5 45959.9 -0220.7  
 1391 8.5 45959.9 -0220.7  
 1392 9.5 45959.9 -0220.7  
 1393 9.7 45959.9 -0220.7  
 1394 10.1 45959.9 -0220.7  
 1395 9.8 45959.9 -0220.7  
 1396 9.0 45959.9 -0220.7  
 1397 9.0 45959.9 -0220.7  
 1398 9.0 45959.9 -0220.7

1399 9.4 45959.9 -0220.7  
 1400 9.5 45959.9 -0220.7  
 1401 9.7 45959.9 -0220.7  
 1402 9.0 45959.9 -0220.7  
 1403 8.3 45959.9 -0220.7  
 1404 9.0 45959.9 -0220.7  
 1405 9.1 45959.9 -0220.7  
 1406 10.1 45959.9 -0220.7  
 1407 9.8 45959.9 -0220.7  
 1408 9.5 45959.9 -0220.7

1409 8.8 45959.9 -0220.7  
 1410 9.5 45959.9 -0220.7  
 1411 9.5 45959.9 -0220.7  
 1412 8.7 45959.9 -0220.7  
 1413 8.5 45959.9 -0220.7  
 1414 8.5 45959.9 -0220.7  
 1415 9.5 45959.9 -0220.7  
 1416 9.5 45959.9 -0220.7  
 1417 9.0 45959.9 -0220.7  
 1418 8.8 45959.9 -0220.7

1419 9.8 45959.9 -0220.7  
 1420 9.0 45959.9 -0220.7  
 1421 9.3 45959.9 -0220.7  
 1422 9.0 45959.9 -0220.7  
 1423 9.0 45959.9 -0220.7  
 1424 9.5 45959.9 -0220.7  
 1425 9.5 45959.9 -0220.7  
 1426 9.0 45959.9 -0220.7  
 1427 9.5 45959.9 -0220.7  
 1428 9.5 45959.9 -0220.7

1429 9.5 45959.9 -0220.7  
 1430 9.0 45959.9 -0220.7  
 1431 9.2 45959.9 -0220.7  
 1432 9.4 45959.9 -0220.7  
 1433 8.5 45959.9 -0220.7  
 1434 8.5 45959.9 -0220.7  
 1435 9.5 45959.9 -0220.7  
 1436 9.5 45959.9 -0220.7  
 1437 9.5 45959.9 -0220.7  
 1438 9.5 45959.9 -0220.7

1439 9.0 45959.9 -0220.7  
 1440 9.6 45959.9 -0220.7  
 1441 9.0 45959.9 -0220.7  
 1442 9.5 45959.9 -0220.7  
 1443 9.7 45959.9 -0220.7  
 1444 9.5 45959.9 -0220.7  
 1445 9.7 45959.9 -0220.7  
 1446 10.1 45959.9 -0220.7  
 1447 9.0 45959.9 -0220.7  
 1448 9.0 45959.9 -0220.7

1449 9.6 45959.9 -0220.7  
 1450 9.3 45959.9 -0220.7  
 1451 9.5 45959.9 -0220.7  
 1452 9.5 45959.9 -0220.7  
 1453 8.5 45959.9 -0220.7  
 1454 9.5 45959.9 -0220.7  
 1455 8.0 45959.9 -0220.7  
 1456 8.5 45959.9 -0220.7  
 1457 8.7 45959.9 -0220.7  
 1458 7.5 45959.9 -0220.7

1459 9.4 45959.9 -0220.7  
 1460 9.5 45959.9 -0220.7  
 1461 10.1 45959.9 -0220.7  
 1462 9.7 45959.9 -0220.7  
 1463 9.8 45959.9 -0220.7  
 1464 9.5 45959.9 -0220.7  
 1465 9.0 45959.9 -0220.7  
 1466 9.5 45959.9 -0220.7  
 1467 9.0 45959.9 -0220.7  
 1468 9.5 45959.9 -0220.7



-02 1469 5h57m

1469 9.5 55753.0 -0203.4  
1470 9.0 55811.2 -0239.0  
1471 9.5 55812.2 -0232.7  
1472 9.0 55817.0 -0205.0  
1473 9.0 55822.0 -0210.0  
1474 10. 55840.3 -0242.1  
1475 10. 55843.2 -0228.3  
1476 9.2 55902.3 -0250.5  
1477 9.5 55918.1 -0225.6  
1478 9.5 55922.2 -0231.9

1479 9.2 55925.4 -0259.2  
1480 9.5 55932.0 -0240.3  
1481 9.0 55945.4 -0253.8  
1482 9.1 55946.2 -0235.9  
1483 9.5 60014.1 -0223.0  
1484 9.5 60015.9 -0201.1  
1485 9.5 60017.9 -0204.7  
1486 9.5 60031.0 -0212.2  
1487 9.5 60044.9 -0200.3  
1488 9.5 60054.0 -0210.5

1489 9.5 60056.7 -0201.4  
1490 9.0 60057.2 -0234.6  
1491 9.3 60059.3 -0240.4  
1492 9.5 60107.3 -0249.7  
1493 9.3 60116.1 -0221.1  
1494 8.7 60125.2 -0228.3  
1495 7.5 60138.0 -0201.5  
1496 9.9 60150.5 -0228.2  
1497 9.5 60217.0 -0211.7  
1498 9.7 60246.7 -0222.7

1499 9.4 60250.0 -0201.6  
1500 9.8 60326.8 -0235.3  
1501 9.5 60328.3 -0250.6  
1502 8.9 60331.3 -0244.8  
1503 9.5 60334.0 -0214.0  
1504 9.4 60334.6 -0234.5  
1505 9.4 60339.9 -0229.5  
1506 9.5 60410.4 -0229.2  
1507 9.5 60424.2 -0250.9  
1508 9.5 60424.9 -0201.5

1509 9.5 60503.1 -0226.7  
1510 9.0 60513.4 -0255.7  
1511 9.5 60515.2 -0236.1  
1512 7.0 60527.8 -0228.1  
1513 8.5 60545.9 -0235.8  
1514 9.0 60609.2 -0238.9  
1515 7.9 60618.1 -0213.0  
1516 9.3 60623.7 -0248.5  
1517 9.3 60624.4 -0231.6  
1518 9.7 60624.9 -0206.7

1519 10. 60635.6 -0242.3  
1520 9.5 60643.0 -0257.0  
1521 9.5 60648.8 -0210.4  
1522 9.5 60654.2 -0251.1  
1523 9.5 60704.1 -0202.5  
1524 10. 60707.7 -0233.1  
1525 9.9 60715.2 -0253.1  
1526 9.6 60719.6 -0245.4  
1527 8.7 60730.8 -0255.7  
1528 9.1 60803.8 -0243.3

1529 9.2 60819.8 -0253.2  
1530 8.7 60829.6 -0220.5  
1531 9.4 60834.5 -0234.2  
1532 9.0 60835.0 -0235.2  
1533 8.9 60840.4 -0213.8  
1534 8.1 60852.0 -0250.6  
1535 9.8 60903.1 -0222.3  
1536 9.5 60904.6 -0201.3  
1537 9.4 60908.7 -0252.0  
1538 9.7 60910.8 -0253.8

1539 9.5 60919.7 -0227.2  
1540 9.1 60932.8 -0252.7  
1541 9.1 60934.2 -0217.2  
1542 9.0 60941.1 -0249.6  
1543 9.4 60942.0 -0217.4  
1544 9.6 60944.1 -0248.1  
1545 9.5 61000.3 -0211.4  
1546 9.4 61005.6 -0221.3  
1547 9.4 61011.5 -0251.9  
1548 9.5 61033.8 -0222.8

1549 9.5 61048.3 -0229.7  
1550 9.3 61050.2 -0254.2  
1551 9.4 61054.2 -0246.8  
1552 9.2 61106.0 -0208.1  
1553 8.7 61113.6 -0255.3  
1554 8.6 61117.7 -0225.6  
1555 9.5 61127.7 -0205.9  
1556 8.7 61130.8 -0257.3  
1557 10. 61141.9 -0235.6  
1558 9.6 61144.5 -0237.4

1559 9.8 61206.4 -0242.5  
1560 9.5 61219.5 -0238.0  
1561 10. 61223.6 -0204.2  
1562 9.4 61223.8 -0244.3  
1563 9.5 61228.7 -0208.0  
1564 5.5 61243.1 -0252.5  
1565 9.5 61250.4 -0234.9  
1566 9.7 61257.7 -0243.4  
1567 9.4 61259.3 -0210.8  
1568 9.1 61307.3 -0201.6

1569 9.5 61319.4 -0224.2  
1570 9.1 61339.6 -0215.7  
1571 9.2 61340.0 -0259.0  
1572 10. 61347.9 -0203.4  
1573 9.5 61354.1 -0238.9  
1574 9.5 61354.6 -0208.6  
1575 9.8 61436.3 -0227.3  
1576 10. 61447.6 -0222.4  
1577 9.8 61450.2 -0234.2  
1578 9.0 61458.1 -0222.1

1579 7.8 61513.2 -0238.6  
1580 9.1 61517.0 -0202.1  
1581 30.0 61525.7 -0207.7  
1582 9.5 61526.1 -0255.4  
1583 8.8 61552.3 -0234.7  
1584 9.5 61555.6 -0226.4  
1585 9.8 61600.5 -0258.6  
1586 9.6 61601.4 -0216.1  
1587 9.5 61604.4 -0251.2  
1588 9.5 61617.4 -0251.7

1589 9.2 61644.1 -0220.8  
1590 9.5 61644.9 -0200.0  
1591 9.2 61657.1 -0253.9  
1592 9.5 61700.3 -0247.5  
1593 9.8 61707.6 -0241.3  
1594 9.9 61727.0 -0216.2  
1595 9.8 61729.1 -0240.1  
1596 9.1 61736.8 -0253.6  
1597 9.0 61737.3 -0256.8  
1598 9.7 61749.1 -0218.0

1599 9.5 61753.8 -0201.6  
1600 10. 61803.5 -0202.9  
1601 7.0 61818.9 -0254.4  
1602 9.3 61820.3 -0211.6  
1603 9.8 61832.5 -0218.0  
1604 9.8 61834.2 -0204.9  
1605 8.8 61845.7 -0222.3  
1606 9.4 61855.8 -0244.1  
1607 9.5 61904.9 -0227.4  
1608 9.5 61920.5 -0214.7

1609 9.1 61929.6 -0238.5  
1610 9.3 61946.1 -0222.5  
1611 9.5 61948.4 -0235.7  
1612 9.6 61950.4 -0235.7  
1613 9.0 61951.0 -0258.7  
1614 9.5 61959.5 -0257.7  
1615 9.0 62011.6 -0221.3  
1616 8.7 62016.7 -0207.3  
1617 8.2 62028.9 -0234.1  
1618 9.6 62029.8 -0231.4

1619 9.7 62036.0 -0224.9  
1620 9.6 62045.7 -0226.0  
1621 9.4 62102.0 -0214.6  
1622 9.5 62107.1 -0218.6  
1623 9.5 62111.7 -0252.8  
1624 8.2 62134.2 -0225.1  
1625 8.5 62140.4 -0235.0  
1626 10. 62141.9 -0249.0  
1627 9.2 62145.7 -0243.1  
1628 9.0 62204.2 -0207.1

1629 9.1 62204.8 -0229.3  
1630 9.5 62207.1 -0204.5  
1631 8.7 62213.1 -0246.1  
1632 9.5 62218.3 -0210.2  
1633 9.5 62220.8 -0236.3  
1634 9.5 62221.5 -0207.7  
1635 9.7 62231.9 -0248.4  
1636 9.4 62246.9 -0234.0  
1637 9.5 62259.9 -0247.5  
1638 9.0 62301.0 -0236.6

1639 7.5 62311.5 -0255.7  
1640 9.5 62323.3 -0229.3  
1641 9.6 62336.4 -0256.5  
1642 9.5 62343.7 -0223.9  
1643 9.3 62357.1 -0255.5  
1644 9.5 62403.2 -0226.1  
1645 9.2 62410.6 -0254.6  
1646 9.5 62410.8 -0208.9  
1647 9.8 62431.3 -0239.1  
1648 9.6 62435.8 -0200.6

1649 8.7 62442.2 -0240.8  
1650 9.0 62453.3 -0246.6  
1651 9.8 62504.8 -0246.6  
1652 9.0 62514.6 -0241.9  
1653 9.5 62519.8 -0210.6  
1654 9.2 62540.6 -0222.0  
1655 9.5 62546.8 -0210.0  
1656 9.0 62553.1 -0221.2  
1657 9.1 62559.0 -0246.8  
1658 9.5 62632.4 -0202.5

1659 9.5 62634.2 -0226.5  
1660 9.3 62640.2 -0214.8  
1661 9.1 62702.5 -0237.8  
1662 8.1 62704.7 -0247.7  
1663 7.0 62706.2 -0257.8  
1664 9.0 62709.9 -0235.5  
1665 9.5 62748.3 -0200.1  
1666 9.8 62752.6 -0200.5  
1667 9.4 62755.6 -0257.6  
1668 9.0 62800.3 -0203.9

1669 8.0 62817.2 -0207.4  
1670 9.5 62823.1 -0245.0  
1671 8.5 62836.9 -0227.5  
1672 9.4 62858.6 -0200.0  
1673 9.5 62905.2 -0228.2  
1674 9.8 62906.7 -0206.1  
1675 9.5 62912.8 -0250.6  
1676 9.2 62914.5 -0257.5  
1677 9.8 62928.7 -0244.9  
1678 9.8 62930.8 -0229.7

1679 9.2 62934.7 -0200.9  
1680 7.5 62947.1 -0203.6  
1681 9.0 62948.8 -0246.4  
1682 9.6 63007.0 -0216.3  
1683 9.3 63007.8 -0255.0  
1684 9.4 63008.9 -0232.4  
1685 9.5 63010.6 -0245.0  
1686 9.5 63023.2 -0223.9  
1687 9.5 63038.0 -0217.7  
1688 9.0 63042.2 -0203.7

1689 9.6 63059.8 -0202.6  
1690 9.2 63101.5 -0247.3  
1691 6.4 63103.7 -0225.0  
1692 9.9 63104.6 -0221.7  
1693 9.0 63113.2 -0216.8  
1694 9.3 63118.4 -0234.4  
1695 9.2 63122.2 -0213.0  
1696 9.5 63134.9 -0233.5  
1697 9.8 63135.7 -0255.2  
1698 9.5 63148.5 -0218.6

1699 9.0 63158.8 -0254.3  
1700 10. 63220.0 -0217.1  
1701 9.0 63222.9 -0240.8  
1702 9.5 63236.0 -0201.9  
1703 9.5 63238.2 -0232.8  
1704 7.8 63248.0 -0213.8  
1705 9.5 63251.1 -0216.5  
1706 8.5 63258.4 -0253.3  
1707 9.1 63304.9 -0244.8  
1708 9.3 63325.1 -0218.7

1709 9.3 63333.5 -0215.8  
1710 9.6 63342.0 -0256.9  
1711 9.1 63347.3 -0247.1  
1712 9.5 63349.2 -0212.5  
1713 9.7 63349.3 -0203.3  
1714 9.5 63401.3 -0200.9  
1715 9.4 63403.4 -0233.2  
1716 8.0 63404.8 -0212.4  
1717 9.5 63407.5 -0253.9  
1718 9.5 63407.7 -0236.8

1719 9.5 63413.5 -0205.8  
1720 9.2 63419.7 -0259.2  
1721 9.3 63423.3 -0201.5  
1722 9.4 63436.8 -0245.6  
1723 9.6 63453.4 -0200.3  
1724 9.8 63458.0 -0212.2  
1725 8.7 63500.1 -0255.8  
1726 9.2 63506.6 -0255.2  
1727 9.5 63518.3 -0246.4  
1728 9.2 63524.3 -0209.0

1729 8.8 63533.9 -0236.1  
1730 9.2 63540.6 -0242.6  
1731 9.5 63541.6 -0222.0  
1732 8.5 63544.9 -0244.8  
1733 9.1 63549.2 -0224.8  
1734 8.5 63557.2 -0236.6  
1735 9.5 63608.9 -0214.1  
1736 9.8 63631.4 -0205.0  
1737 9.4 63650.0 -0217.1  
1738 9.6 63653.4 -0233.7

1739 9.4 63654.7 -0250.3  
1740 9.5 63701.6 -0239.5  
1741 8.5 63707.0 -0216.7  
1742 9.5 63713.4 -0214.2  
1743 9.5 63728.7 -0237.0  
1744 8.8 63740.3 -0243.9  
1745 9.5 63745.4 -0231.9  
1746 9.2 63748.1 -0240.8  
1747 9.8 63805.2 -0220.7  
1748 9.3 63808.6 -0231.7

1749 9.4 63808.6 -0247.2  
1750 9.4 63814.3 -0220.8  
1751 9.7 63816.7 -0211.8  
1752 9.7 63844.8 -0248.7  
1753 9.5 63855.9 -0225.4  
1754 9.0 63855.0 -0214.5  
1755 9.6 63856.0 -0208.5  
1756 9.5 63909.4 -0252.9  
1757 9.5 63911.0 -0207.5  
1758 9.6 63913.9 -0203.6

1759 9.8 63921.4 -0245.0  
1760 9.4 63921.3 -0229.6  
1761 9.8 63936.0 -0217.4  
1762 9.0 63936.4 -0233.5  
1763 9.5 63939.9 -0210.9  
1764 9.1 63952.9 -0241.2  
1765 9.5 63954.8 -0205.2  
1766 8.9 64004.0 -0215.9  
1767 9.8 64015.5 -0205.4  
1768 9.2 64030.9 -0212.8

1769 9.8 64046.3 -0250.7  
1770 9.3 64056.4 -0246.6  
1771 9.3 64109.1 -0202.1  
1772 9.5 64114.5 -0255.6  
1773 9.5 64138.0 -0217.0  
1774 9.7 64149.6 -0242.6  
1775 9.8 64151.0 -0226.0  
1776 6.1 64158.2 -0206.6  
1777 9.2 64201.0 -0229.4  
1778 9.5 64208.9 -0258.3

1779 9.8 64219.0 -0206.8  
1780 9.7 64224.9 -0202.0  
1781 9.5 64238.7 -0230.5  
1782 9.5 64239.9 -0201.0  
1783 8.5 64241.7 -0206.9  
1784 9.0 64301.3 -0254.5  
1785 9.7 64302.2 -0252.6  
1786 9.4 64304.0 -0255.9  
1787 9.7 64323.0 -0216.7  
1788 9.7 64325.4 -0211.2

1789 9.7 64325.8 -0238.7  
1790 9.7 64336.1 -0206.2  
1791 9.8 64339.4 -0242.8  
1792 9.7 64340.0 -0210.7  
1793 9.5 64351.5 -0248.4  
1794 8.2 64352.3 -0246.9  
1795 9.5 64407.9 -0210.2  
1796 8.8 64415.9 -0251.0  
1797 9.1 64419.0 -0228.9  
1798 7.0 64422.6 -0213.7

1799 9.5 64425.7 -0219.5  
1800 9.8 64431.8 -0258.4  
1801 7.7 64433.0 -0200.2  
1802 9.0 64437.3 -0206.0  
1803 9.5 64448.5 -0228.8  
1804 9.6 64503.2 -0236.4  
1805 9.0 64506.4 -0210.4  
1806 8.5 64513.6 -0253.6  
1807 9.7 64515.7 -0202.2  
1808 8.9 64537.0 -0211.5

1809 8.8 64541.3 -0253.4  
1810 9.6 64546.4 -0223.9  
1811 9.2 64609.4 -0209.6  
1812 9.5 64612.1 -0215.4  
1813 9.7 64622.3 -0221.3  
1814 9.5 64630.0 -0230.4  
1815 9.5 64631.5 -0203.4  
1816 8.9 64647.1 -0237.7  
1817 9.7 64653.5 -0245.7  
1818 9.3 64657.3 -0255.2

1819 9.2 64659.6 -0210.6  
1820 9.1 64704.3 -0233.2  
1821 9.2 64708.0 -0235.6  
1822 9.4 64708.6 -0238.4  
1823 9.5 64712.1 -0202.6  
1824 9.5 64717.1 -0217.0  
1825 9.9 64736.3 -0258.0  
1826 9.2 64740.1 -0234.3  
1827 6.3 64744.2 -0237.0  
1828 9.3 64746.3 -0237.4

-02 1828 6h47m



-02 1829 6h47m

1829 7.8 64752.0 -0217.9  
1830 9.0 64801.6 -0234.9  
1831 9.4 64807.1 -0201.0  
1832 9.5 64810.7 -0218.8  
1833 9.7 64829.4 -0201.4  
1834 9.8 64844.0 -0227.8  
1835 8.6 64845.0 -0259.6  
1836 9.5 64847.2 -0214.3  
1837 9.5 64851.1 -0223.0  
1838 10. 64851.8 -0200.5

1839 9.8 64904.0 -0249.0  
1840 9.0 64904.4 -0200.5  
1841 9.5 64918.0 -0258.3  
1842 9.7 64922.2 -0249.5  
1843 9.4 64927.8 -0239.9  
1844 9.1 64954.5 -0217.5  
1845 9.7 64954.8 -0202.8  
1846 9.3 65008.0 -0203.8  
1847 9.2 65009.5 -0245.1  
1848 10. 65014.2 -0207.5

1849 9.3 65018.6 -0205.5  
1850 9.7 65026.2 -0251.1  
1851 9.4 65027.2 -0240.6  
1852 9.6 65031.7 -0238.9  
1853 9.5 65034.9 -0251.4  
1854 9.4 65037.1 -0230.9  
1855 9.2 65108.7 -0222.4  
1856 7.8 65112.6 -0250.2  
1857 9.5 65119.5 -0246.3  
1858 9.8 65119.9 -0216.1

1859 9.8 65122.9 -0208.5  
1860 9.4 65124.2 -0256.4  
1861 9.4 65143.7 -0258.1  
1862 9.5 65152.5 -0246.4  
1863 10. 65158.3 -0209.3  
1864 10. 65204.4 -0203.4  
1865 9.5 65215.1 -0222.9  
1866 9.7 65217.2 -0221.9  
1867 9.4 65222.8 -0200.9  
1868 9.7 65236.6 -0251.1

1869 8.8 65245.1 -0243.4  
1870 8.8 65253.3 -0239.0  
1871 9.7 65257.3 -0218.2  
1872 9.5 65302.5 -0246.4  
1873 8.2 65304.2 -0213.7  
1874 9.1 65308.5 -0248.7  
1875 9.5 65309.4 -0208.2  
1876 9.3 65311.6 -0246.7  
1877 9.1 65314.7 -0251.0  
1878 9.8 65320.6 -0236.5

1879 9.4 65327.4 -0225.4  
1880 9.5 65334.5 -0244.5  
1881 9.7 65340.9 -0251.2  
1882 9.5 65355.4 -0207.5  
1883 9.1 65401.6 -0233.0  
1884 9.3 65403.3 -0255.8  
1885 8.0 65411.7 -0254.7  
1886 9.0 65411.7 -0254.5  
1887 9.6 65421.2 -0255.9  
1888 9.8 65423.0 -0249.2

1889 9.8 65447.0 -0256.8  
1890 9.6 65449.1 -0217.9  
1891 9.8 65449.2 -0207.3  
1892 9.7 65506.5 -0252.6  
1893 9.5 65517.0 -0211.1  
1894 9.8 65531.6 -0232.8  
1895 9.8 65550.6 -0255.0  
1896 9.2 65551.9 -0257.3  
1897 9.4 65553.8 -0203.4  
1898 9.3 65606.2 -0232.2

1899 8.0 65609.5 -0249.0  
1900 8.3 65619.1 -0215.8  
1901 9.5 65619.6 -0236.5  
1902 9.8 65620.0 -0219.6  
1903 9.1 65633.0 -0202.5  
1904 9.1 65643.0 -0210.0  
1905 9.5 65647.5 -0204.2  
1906 9.5 65653.9 -0216.0  
1907 9.8 65658.3 -0231.3  
1908 8.6 65705.0 -0250.6

1909 9.7 65708.4 -0228.8  
1910 9.6 65709.2 -0239.8  
1911 9.8 65710.7 -0205.7  
1912 10. 65721.7 -0259.1  
1913 9.8 65723.0 -0246.6  
1914 9.5 65730.1 -0257.3  
1915 10. 65743.7 -0212.3  
1916 10. 65749.0 -0229.1  
1917 9.5 65804.6 -0206.8  
1918 9.6 65830.0 -0256.9

1919 9.8 65832.7 -0232.5  
1920 9.8 65842.5 -0253.9  
1921 9.7 65846.3 -0214.5  
1922 9.7 65847.9 -0222.2  
1923 9.3 65857.2 -0206.6  
1924 9.6 65859.2 -0210.5  
1925 7.6 65911.7 -0253.9  
1926 9.7 65915.3 -0239.9  
1927 9.7 65917.9 -0224.2  
1928 9.0 65920.8 -0245.7

1929 8.5 65921.2 -0227.8  
1930 9.0 65927.5 -0218.6  
1931 8.0 65933.7 -0231.6  
1932 9.6 65937.4 -0242.8  
1933 9.3 65941.7 -0209.0  
1934 9.0 65952.5 -0224.6  
1935 9.3 65956.0 -0248.7  
1936 8.3 70000.5 -0244.6  
1937 9.2 70016.8 -0236.3  
1938 9.5 70019.6 -0229.6

1939 9.2 70032.7 -0237.0  
1940 9.3 70041.4 -0222.5  
1941 8.4 70057.8 -0257.8  
1942 9.7 70111.2 -0254.7  
1943 9.4 70121.7 -0208.8  
1944 9.6 70129.5 -0243.2  
1945 8.8 70134.1 -0228.5  
1946 9.6 70144.0 -0219.1  
1947 9.3 70144.4 -0211.9  
1948 9.8 70145.3 -0211.2

1949 8.8 70148.3 -0256.2  
1950 9.5 70208.2 -0233.7  
1951 9.4 70224.6 -0202.8  
1952 9.5 70237.0 -0216.4  
1953 9.4 70241.8 -0242.6  
1954 9.8 70256.5 -0247.7  
1955 9.1 70257.9 -0209.1  
1956 9.7 70258.4 -0206.3  
1957 9.7 70303.8 -0212.8  
1958 9.1 70306.2 -0206.8

1959 9.3 70308.0 -0252.3  
1960 9.4 70312.2 -0203.9  
1961 9.1 70321.3 -0232.6  
1962 9.2 70322.3 -0236.2  
1963 8.4 70334.5 -0219.6  
1964 9.3 70334.7 -0253.2  
1965 9.5 70336.9 -0230.5  
1966 9.0 70337.3 -0236.5  
1967 9.8 70340.2 -0207.6  
1968 9.8 70344.3 -0212.5

1969 8.5 70357.5 -0246.2  
1970 9.3 70359.8 -0202.7  
1971 9.4 70418.4 -0202.9  
1972 9.5 70422.0 -0243.1  
1973 9.5 70430.7 -0202.2  
1974 8.8 70442.5 -0247.8  
1975 9.8 70444.3 -0249.5  
1976 8.3 70458.3 -0246.7  
1977 9.8 70501.9 -0211.8  
1978 9.7 70504.3 -0252.2

1979 9.4 70506.6 -0214.2  
1980 8.2 70507.1 -0219.8  
1981 8.5 70517.4 -0218.8  
1982 8.3 70518.0 -0249.8  
1983 9.2 70519.1 -0209.3  
1984 9.4 70522.0 -0221.1  
1985 9.7 70523.3 -0252.4  
1986 9.2 70525.7 -0205.7  
1987 8.2 70527.0 -0256.2  
1988 10. 70534.2 -0229.9

1989 9.5 70535.8 -0225.1  
1990 9.8 70539.3 -0243.9  
1991 9.8 70546.4 -0241.1  
1992 9.2 70546.7 -0207.5  
1993 9.3 70551.8 -0244.9  
1994 9.3 70554.0 -0202.8  
1995 9.4 70554.2 -0204.1  
1996 9.1 70558.1 -0224.0  
1997 9.3 70603.2 -0213.5  
1998 9.8 70613.7 -0208.9

1999 9.8 70619.5 -0249.5  
2000 9.7 70620.3 -0235.5  
2001 9.0 70638.4 -0239.9  
2002 9.4 70655.4 -0202.3  
2003 9.2 70657.5 -0204.3  
2004 9.6 70706.0 -0219.6  
2005 9.8 70724.9 -0216.9  
2006 9.3 70734.2 -0210.0  
2007 9.0 70743.3 -0254.2  
2008 8.0 70744.7 -0234.3

2009 9.3 70746.9 -0220.7  
2010 9.7 70802.4 -0257.1  
2011 9.8 70821.1 -0241.3  
2012 9.5 70824.0 -0215.6  
2013 9.5 70829.6 -0256.4  
2014 9.6 70831.7 -0205.8  
2015 9.5 70832.8 -0209.3  
2016 9.4 70836.6 -0255.0  
2017 9.5 70841.9 -0217.6  
2018 9.5 70844.0 -0235.0

2019 9.4 70846.2 -0200.4  
2020 9.3 70852.8 -0200.6  
2021 8.9 70907.5 -0244.3  
2022 8.8 70912.7 -0259.5  
2023 9.4 70918.0 -0245.5  
2024 9.6 70925.3 -0237.1  
2025 9.5 70927.8 -0210.9  
2026 9.8 70949.9 -0244.6  
2027 9.0 70957.1 -0229.3  
2028 8.8 71004.1 -0225.2

2029 9.4 71008.4 -0202.0  
2030 8.8 71009.5 -0218.4  
2031 9.0 71014.7 -0238.0  
2032 9.4 71016.1 -0242.2  
2033 9.5 71020.4 -0205.0  
2034 9.5 71027.6 -0250.3  
2035 9.5 71037.1 -0228.1  
2036 9.5 71039.8 -0237.3  
2037 10. 71041.0 -0206.4  
2038 9.1 71044.4 -0217.5

2039 8.0 71047.3 -0251.3  
2040 9.6 71109.7 -0252.0  
2041 9.1 71110.8 -0243.2  
2042 9.4 71114.1 -0247.1  
2043 9.8 71131.6 -0208.5  
2044 9.1 71135.3 -0210.0  
2045 9.7 71150.0 -0218.3  
2046 9.1 71153.7 -0214.2  
2047 9.7 71155.0 -0215.0  
2048 9.7 71204.2 -0206.3

2049 9.7 71204.8 -0202.0  
2050 8.7 71209.4 -0217.8  
2051 9.7 71215.1 -0249.5  
2052 9.4 71215.4 -0257.5  
2053 9.5 71218.5 -0245.8  
2054 9.0 71224.8 -0235.6  
2055 9.6 71229.8 -0235.4  
2056 9.8 71233.5 -0219.3  
2057 9.3 71243.3 -0211.9  
2058 9.1 71244.6 -0226.9

2059 8.7 71248.9 -0240.7  
2060 9.4 71251.5 -0247.5  
2061 9.5 71257.2 -0232.3  
2062 9.8 71301.6 -0244.9  
2063 9.5 71331.0 -0243.4  
2064 9.1 71367.4 -0259.8  
2065 9.2 71368.3 -0209.5  
2066 9.0 71369.6 -0207.9  
2067 9.5 71350.4 -0200.4  
2068 8.7 71357.6 -0224.7

2069 9.1 71359.4 -0217.8  
2070 9.5 71401.3 -0215.6  
2071 9.5 71404.7 -0200.1  
2072 9.5 71408.4 -0201.2  
2073 9.1 71432.2 -0231.4  
2074 9.2 71439.2 -0245.8  
2075 9.2 71439.3 -0254.6  
2076 9.5 71448.1 -0226.7  
2077 9.0 71451.7 -0231.3  
2078 9.7 71500.6 -0249.2

2079 6.5 71502.4 -0242.4  
2080 9.1 71502.8 -0239.6  
2081 9.7 71506.1 -0259.3  
2082 9.7 71520.2 -0252.3  
2083 9.4 71535.2 -0210.2  
2084 9.4 71544.5 -0223.1  
2085 9.8 71552.6 -0201.6  
2086 9.3 71608.1 -0228.5  
2087 9.0 71610.2 -0219.0  
2088 9.8 71612.6 -0218.6

2089 9.2 71615.7 -0233.1  
2090 9.5 71641.5 -0209.9  
2091 9.8 71645.0 -0240.9  
2092 8.8 71657.6 -0218.7  
2093 9.8 71659.5 -0210.0  
2094 9.1 71700.6 -0233.8  
2095 9.5 71714.7 -0254.8  
2096 9.5 71719.6 -0249.9  
2097 9.4 71732.1 -0226.0  
2098 9.3 71733.6 -0250.5

-02 2188 7h27m

2099 9.0 71735.9 -0221.4  
2100 9.4 71753.6 -0209.2  
2101 9.0 71757.5 -0251.7  
2102 9.2 71801.9 -0216.6  
2103 9.8 71810.4 -0201.3  
2104 9.5 71819.8 -0257.4  
2105 9.4 71829.6 -0225.8  
2106 9.7 71832.6 -0200.5  
2107 9.7 71844.8 -0200.4  
2108 9.7 71856.2 -0259.0

2109 10. 71903.9 -0244.4  
2110 9.7 71905.1 -0240.6  
2111 8.1 71917.8 -0245.8  
2112 9.6 71918.9 -0234.2  
2113 8.5 71921.2 -0241.8  
2114 9.4 71952.9 -0230.3  
2115 8.9 71957.6 -0253.5  
2116 9.4 71959.2 -0231.2  
2117 8.5 72002.3 -0257.1  
2118 8.7 72006.3 -0213.9

2119 9.4 72015.5 -0201.3  
2120 9.5 72019.6 -0251.6  
2121 9.4 72020.0 -0202.3  
2122 9.3 72027.0 -0248.5  
2123 8.4 72027.2 -0247.0  
2124 9.5 72029.6 -0227.7  
2125 9.0 72038.9 -0216.5  
2126 7.0 72042.8 -0235.4  
2127 9.5 72044.3 -0256.3  
2128 9.4 72050.3 -0258.1

2129 8.4 72055.0 -0248.4  
2130 9.6 72110.4 -0221.6  
2131 9.7 72110.4 -0200.3  
2132 9.1 72113.6 -0252.9  
2133 9.4 72117.2 -0251.6  
2134 9.2 72121.5 -0239.4  
2135 9.0 72125.5 -0208.7  
2136 9.3 72131.1 -0244.6  
2137 9.5 72131.8 -0240.3  
2138 9.5 72138.2 -0256.9

2139 9.2 72145.9 -0249.1  
2140 9.3 72150.8 -0237.0  
2141 8.1 72158.7 -0240.2  
2142 9.4 72159.4 -0245.6  
2143 9.2 72200.7 -0251.0  
2144 8.1 72212.6 -0256.1  
2145 9.9 72225.5 -0227.1  
2146 9.5 72231.4 -0243.1  
2147 9.7 72256.2 -0247.2  
2148 9.8 72258.6 -0212.8

2149 9.2 72300.4 -0221.9  
2150 9.4 72301.4 -0240.0  
2151 9.5 72339.1 -0220.1  
2152 8.4 72343.1 -0229.7  
2153 8.4 72343.8 -0236.5  
2154 9.8 72350.6 -0207.3  
2155 8.3 72354.9 -0214.7  
2156 8.1 72356.9 -0207.4  
2157 10. 72405.0 -0215.2  
2158 9.2 72410.3 -0257.0

2159 9.5 72410.8 -0219.3  
2160 9.1 72424.2 -0225.3  
2161 9.2 72424.9 -0238.2  
2162 9.5 72433.7 -0251.5  
2163 8.8 72451.6 -0254.4  
2164 9.4 72503.4 -0259.3  
2165 9.7 72508.6 -0250.3  
2166 9.7 72510.1 -0229.0  
2167 8.8 72519.5 -0227.1  
2168 9.5 72523.3 -0240.5

2169 9.8 72526.6 -0248.7  
2170 9.5 72538.2 -0209.4  
2171 9.6 72541.1 -0200.3  
2172 9.5 72555.9 -0223.3  
2173 10. 72609.5 -0250.3  
2174 9.1 72610.2 -0231.5  
2175 9.8 72613.9 -0220.3  
2176 9.6 72621.7 -0233.2  
2177 9.1 72640.0 -0222.8  
2178 9.0 72645.7 -0231.3

2179 9.1 72653.4 -0237.9  
2180 9.0 72657.3 -0256.1  
2181 9.1 72704.6 -0253.6  
2182 9.0 72713.0 -0201.4  
2183 9.1 72716.8 -0217.1  
2184 9.5 72720.1 -0204.2  
2185 9.2 72728.6 -0253.3  
2186 9.5 72737.9 -0238.1  
2187 9.4 72739.6 -0253.1  
2188 8.8 72742.5 -0201.5



-02 2189 7h28m

2189 9.7 72800.6 -0253.1  
2190 10. 72803.1 -0250.0  
2191 9.8 72804.9 -0250.6  
2192 8.9 72820.5 -0247.3  
2193 9.8 72836.3 -0225.8  
2194 9.8 72837.3 -0227.1  
2195 9.8 72840.2 -0230.5  
2196 9.0 72847.0 -0240.5  
2197 7.4 72848.3 -0250.2  
2198 9.5 72850.5 -0247.2

2199 9.5 72905.7 -0231.9  
2200 9.2 72916.9 -0251.6  
2201 9.0 72919.3 -0254.2  
2202 9.5 72920.1 -0208.4  
2203 9.7 72943.1 -0243.1  
2204 9.8 72946.4 -0248.4  
2205 9.7 72956.3 -0236.7  
2206 8.8 73003.7 -0251.6  
2207 7.8 73031.9 -0216.5  
2208 8.4 73038.6 -0257.1

2209 9.2 73044.5 -0201.3  
2210 9.1 73045.2 -0231.4  
2211 9.5 73052.8 -0259.1  
2212 9.3 73102.7 -0222.7  
2213 9.5 73109.3 -0237.1  
2214 9.2 73114.7 -0251.5  
2215 9.6 73118.1 -0209.7  
2216 9.5 73119.7 -0231.7  
2217 9.6 73127.4 -0218.4  
2218 9.7 73131.3 -0238.0

2219 9.4 73133.0 -0227.0  
2220 9.4 73145.4 -0219.9  
2221 9.1 73147.4 -0219.3  
2222 9.8 73149.8 -0258.4  
2223 9.6 73205.7 -0248.7  
2224 10. 73205.8 -0249.8  
2225 9.5 73219.8 -0236.2  
2226 10. 73220.2 -0211.7  
2227 9.7 73232.4 -0203.1  
2228 9.3 73234.0 -0246.1

2229 10. 73237.3 -0243.4  
2230 9.9 73237.3 -0232.7  
2231 9.7 73238.8 -0208.1  
2232 8.9 73243.7 -02 3.0  
2233 9.7 73251.8 -0244.4  
2234 9.4 73314.5 -0207.1  
2235 8.5 73345.4 -0220.8  
2236 9.2 73346.1 -0207.4  
2237 9.8 73347.2 -0253.5  
2238 9.5 73352.0 -0227.0

2239 9.4 73354.9 -0251.4  
2240 9.2 73356.0 -0222.5  
2241 9.6 73403.0 -0256.7  
2242 9.3 73415.6 -0239.7  
2243 9.6 73426.2 -0214.3  
2244 9.5 73429.2 -0218.9  
2245 9.7 73442.1 -0256.4  
2246 9.8 73442.6 -0251.1  
2247 9.5 73502.9 -0218.0  
2248 9.4 73504.0 -0252.4

2249 9.4 73511.2 -0233.5  
2250 9.3 73513.3 -0252.0  
2251 8.2 73521.0 -0220.7  
2252 8.9 73523.5 -0243.2  
2253 9.5 73535.8 -0237.9  
2254 9.0 73541.6 -0227.2  
2255 9.5 73546.0 -0201.7  
2256 9.9 73606.9 -0220.8  
2257 9.4 73611.6 -0228.9  
2258 9.9 73632.4 -0259.8

2259 9.5 73633.9 -0217.5  
2260 9.4 73634.5 -0203.7  
2261 9.5 73636.3 -0236.5  
2262 9.3 73652.1 -0226.5  
2263 8.0 73655.4 -0254.5  
2264 9.5 73659.0 -0200.4  
2265 9.0 73707.1 -0240.8  
2266 9.4 73732.7 -0206.6  
2267 9.4 73734.0 -0225.1  
2268 9.2 73740.0 -0201.2

2269 9.8 73744.9 -0243.7  
2270 9.5 73758.5 -0200.3  
2271 9.5 73806.9 -0245.9  
2272 9.7 73813.5 -0246.1  
2273 9.8 73819.7 -0234.2  
2274 9.5 73823.2 -0207.0  
2275 9.5 73824.3 -0213.5  
2276 9.1 73825.0 -0221.5  
2277 9.1 73826.2 -0234.4  
2278 9.5 73841.1 -0203.4

2279 9.6 73841.7 -0251.4  
2280 9.5 73848.6 -0248.0  
2281 9.5 73854.7 -0244.8  
2282 9.1 73907.1 -0206.6  
2283 9.5 73909.1 -0254.9  
2284 9.4 73913.7 -0212.6  
2285 9.5 73920.9 -0219.5  
2286 8.9 73926.6 -0249.3  
2287 9.2 73927.9 -0259.3  
2288 9.6 73937.5 -0221.5

2289 9.5 73942.5 -0247.4  
2290 9.7 74001.1 -0255.7  
2291 9.5 74026.8 -0241.0  
2292 10. 74032.4 -0217.8  
2293 9.9 74035.9 -0217.5  
2294 9.5 74038.3 -0230.6  
2295 9.8 74043.6 -0251.5  
2296 9.0 74044.4 -0214.6  
2297 9.4 74045.4 -0235.6  
2298 8.7 74051.3 -0236.7

2299 9.5 74107.2 -0208.4  
2300 9.3 74117.2 -0242.8  
2301 8.6 74142.7 -0231.0  
2302 8.4 74147.8 -0255.0  
2303 10. 74210.9 -0256.3  
2304 9.3 74216.1 -0204.3  
2305 9.0 74220.6 -0256.7  
2306 8.0 74237.9 -0219.7  
2307 8.2 74253.4 -0219.2  
2308 9.5 74302.1 -0204.0

2309 9.1 74308.4 -0247.5  
2310 9.5 74315.7 -0229.6  
2311 8.5 74321.1 -0257.3  
2312 9.5 74330.5 -0247.6  
2313 9.5 74331.9 -0217.6  
2314 9.5 74333.0 -0229.7  
2315 8.3 74333.6 -0207.8  
2316 8.3 74342.4 -0245.5  
2317 8.9 74426.5 -0225.7  
2318 9.8 74431.1 -0229.2

2319 9.7 74433.1 -0256.6  
2320 9.5 74445.2 -0247.3  
2321 9.5 74449.2 -0233.1  
2322 6.7 74451.4 -0241.1  
2323 9.8 74453.5 -0201.4  
2324 9.0 74513.0 -0245.1  
2325 7.8 74516.4 -0215.2  
2326 9.6 74532.6 -0249.1  
2327 9.5 74536.6 -0254.2  
2328 9.5 74543.6 -0228.5

2329 9.3 74550.1 -0220.9  
2330 9.4 74550.6 -0205.7  
2331 8.8 74602.3 -0240.0  
2332 9.5 74609.8 -0215.5  
2333 9.8 74619.9 -0241.2  
2334 9.8 74620.0 -0255.7  
2335 9.6 74628.9 -0212.9  
2336 9.7 74645.8 -0216.8  
2337 9.3 74653.5 -0226.8  
2338 9.5 74655.5 -0200.9

2339 9.5 74705.6 -0205.4  
2340 9.5 74711.2 -0233.4  
2341 7.2 74715.9 -0225.3  
2342 8.7 74717.7 -0234.7  
2343 9.5 74730.6 -0224.9  
2344 9.6 74741.2 -0251.6  
2345 9.5 74753.2 -0228.7  
2346 9.8 74758.0 -0231.5  
2347 9.7 74801.5 -0201.9  
2348 9.5 74810.8 -0219.0

2349 9.5 74819.2 -0229.6  
2350 8.5 74825.8 -0254.4  
2351 9.5 74826.9 -0245.0  
2352 9.1 74843.9 -0257.4  
2353 10. 74919.3 -0209.5  
2354 10. 74920.1 -0211.9  
2355 9.6 74924.7 -0250.9  
2356 9.5 74935.5 -0241.2  
2357 8.8 74945.8 -0209.0  
2358 9.2 75002.8 -0223.5

2359 8.9 75003.5 -0257.2  
2360 7.8 75010.4 -0233.5  
2361 9.8 75014.3 -0249.7  
2362 9.8 75015.3 -0259.9  
2363 9.0 75053.4 -0210.8  
2364 9.6 75108.0 -0234.8  
2365 9.4 75112.3 -0254.5  
2366 9.8 75122.4 -0254.1  
2367 9.0 75133.3 -0231.3  
2368 9.5 75133.9 -0209.0

2369 9.5 75142.2 -0230.1  
2370 9.5 75159.0 -0216.7  
2371 9.5 75203.1 -0245.4  
2372 9.0 75211.4 -0252.8  
2373 9.8 75233.9 -0258.7  
2374 9.5 75234.9 -0228.7  
2375 9.1 75248.2 -0226.7  
2376 8.9 75302.4 -0250.7  
2377 9.3 75322.0 -0238.1  
2378 9.1 75324.5 -0217.9

2379 6.8 75326.8 -0228.8  
2380 8.8 75408.7 -0247.6  
2381 9.5 75409.2 -0228.2  
2382 9.8 75428.4 -0240.6  
2383 8.2 75444.9 -0234.8  
2384 8.7 75450.1 -0223.0  
2385 9.7 75505.3 -0230.4  
2386 9.7 75506.8 -0232.5  
2387 9.8 75508.5 -0207.0  
2388 8.2 75519.5 -0252.0

2389 9.8 75520.2 -0231.5  
2390 9.0 75520.7 -0215.8  
2391 9.5 75536.8 -0218.1  
2392 9.4 75538.7 -0235.3  
2393 9.1 75540.8 -0226.7  
2394 8.3 75542.0 -0219.5  
2395 9.5 75547.8 -0231.1  
2396 9.4 75556.1 -0241.1  
2397 9.5 75604.4 -0234.9  
2398 9.4 75621.4 -0249.7

2399 8.9 75621.7 -0243.6  
2400 9.0 75623.9 -0231.5  
2401 9.2 75628.6 -0222.8  
2402 9.1 75631.0 -0233.0  
2403 9.5 75646.8 -0210.4  
2404 9.8 75646.9 -0258.7  
2405 9.2 75653.6 -0255.5  
2406 9.0 75656.3 -0259.1  
2407 8.5 75706.4 -0210.9  
2408 9.5 75707.9 -0212.2

2409 9.1 75717.8 -0252.4  
2410 9.4 75718.5 -0254.2  
2411 9.5 75732.2 -0241.1  
2412 8.7 75725.1 -0224.4  
2413 9.0 75734.9 -0231.6  
2414 9.3 75742.4 -0259.8  
2415 9.0 75745.0 -0216.6  
2416 9.8 75753.6 -0246.4  
2417 9.5 75801.9 -0235.1  
2418 9.0 75804.0 -0218.9

2419 9.5 75807.6 -0201.0  
2420 9.5 75813.6 -0222.2  
2421 9.2 75817.4 -0254.8  
2422 9.8 75837.0 -0257.6  
2423 9.5 75844.7 -0232.2  
2424 8.5 75848.6 -0222.0  
2425 9.4 75853.5 -0250.5  
2426 9.6 75910.3 -0249.3  
2427 9.4 75911.2 -0233.5  
2428 9.5 75919.6 -0238.8

2429 9.7 75928.6 -0243.8  
2430 8.8 75936.9 -0233.7  
2431 9.5 75941.4 -0213.9  
2432 9.5 75947.7 -0250.5  
2433 9.5 75958.0 -0216.1  
2434 9.1 75958.2 -0243.4  
2435 8.8 75959.3 -0257.2  
2436 9.0 80004.9 -0243.1  
2437 7.0 80025.3 -0259.5  
2438 9.5 80026.4 -0231.7

2439 9.3 80027.9 -0233.7  
2440 9.7 80037.5 -0253.4  
2441 9.5 80051.0 -0216.8  
2442 9.5 80052.4 -0208.9  
2443 9.7 80053.6 -0247.6  
2444 9.6 80055.9 -0204.3  
2445 9.9 80058.8 -0233.1  
2446 9.3 80101.8 -0236.2  
2447 9.0 80109.2 -0206.8  
2448 9.6 80113.3 -0256.3

2449 9.0 80114.4 -0234.2  
2450 4.8 80118.8 -0233.6  
2451 9.9 80120.0 -0233.6  
2452 9.8 80130.0 -0232.4  
2453 9.2 80132.1 -0247.7  
2454 9.0 80139.5 -0259.4  
2455 9.7 80143.8 -0233.7  
2456 9.8 80151.3 -0248.2  
2457 9.5 80159.6 -0222.0  
2458 9.5 80215.1 -0238.7

-02 2548 8h15m

2459 9.5 80221.7 -0218.7  
2460 9.2 80225.4 -0217.8  
2461 9.1 80225.6 -0233.3  
2462 9.5 80235.3 -0216.1  
2463 9.0 80237.6 -0231.0  
2464 9.1 80254.0 -0202.4  
2465 8.7 80258.2 -0250.5  
2466 9.4 80311.4 -0252.7  
2467 9.1 80312.0 -0210.4  
2468 9.3 80316.0 -0201.5

2469 9.5 80322.5 -0242.1  
2470 9.5 80346.4 -0231.0  
2471 9.0 80356.7 -0232.5  
2472 8.5 80359.7 -0210.4  
2473 9.5 80403.8 -0228.2  
2474 9.3 80425.1 -0203.5  
2475 9.0 80433.1 -0227.9  
2476 8.8 80436.5 -0255.8  
2477 9.5 80455.2 -0257.0  
2478 9.4 80522.0 -0202.2

2479 9.5 80524.3 -0246.1  
2480 8.5 80528.3 -0211.8  
2481 9.8 80541.7 -0250.9  
2482 8.7 80544.0 -0202.2  
2483 9.0 80548.6 -0228.6  
2484 9.9 80621.9 -0248.9  
2485 9.0 80623.9 -0244.9  
2486 9.8 80630.1 -0243.0  
2487 10. 80620.7 -0210.6  
2488 9.5 80653.2 -0207.9

2489 9.1 80654.5 -0229.8  
2490 9.2 80717.8 -0235.5  
2491 9.5 80723.0 -0223.5  
2492 4.9 80726.5 -0225.9  
2493 9.8 80743.8 -0213.5  
2494 9.5 80758.7 -0211.2  
2495 8.8 80759.8 -0223.5  
2496 9.6 80866.4 -0200.8  
2497 9.8 80907.6 -0258.0  
2498 9.0 80919.5 -0249.3

2499 9.2 80929.5 -0255.5  
2500 9.5 80932.0 -0207.8  
2501 9.8 80948.5 -0227.8  
2502 9.6 80951.8 -0227.3  
2503 8.8 80957.6 -0226.6  
2504 7.0 80969.9 -0247.0  
2505 9.2 80982.2 -0201.6  
2506 9.2 80983.5 -0200.7  
2507 9.5 80994.5 -0242.4  
2508 9.6 80998.0 -0227.0

2509 6.2 80992.4 -0254.1  
2510 9.0 80993.8 -0224.4  
2511 8.5 80995.5 -0248.3  
2512 7.3 81011.7 -0239.4  
2513 9.0 81015.3 -0217.4  
2514 9.4 81070.1 -0240.5  
2515 9.0 81074.7 -0200.1  
2516 9.6 81079.5 -0200.6  
2517 9.6 81104.7 -0240.5  
2518 9.7 81110.7 -0213.3

2519 9.7 81113.0 -0212.5  
2520 9.5 81115.1 -0200.0  
2521 10. 81144.6 -0212.4  
2522 8.6 81153.8 -0240.2  
2523 9.8 81155.0 -0218.4  
2524 9.8 81156.7 -0221.1  
2525 9.0 81158.1 -0224.7  
2526 9.6 81160.0 -0243.0  
2527 9.9 81205.0 -0214.5  
2528 9.1 81244.2 -0247.0

2529 8.2 81249.3 -0220.1  
2530 4.6 81301.2 -0218.0  
2531 8.7 81305.7 -0210.7  
2532 9.5 81307.8 -0238.6  
2533 9.6 81329.7 -0224.5  
2534 9.2 81339.0 -0239.7  
2535 9.0 81357.0 -0257.5  
2536 9.4 81369.9 -0249.1  
2537 9.5 81373.9 -0220.7  
2538 9.1 81416.6 -0221.8

2539 8.9 81421.2 -0241.0  
2540 10. 81429.8 -0228.7  
2541 9.4 81437.6 -0242.1  
2542 8.8 81447.1 -0228.7  
2543 9.3 81459.3 -0216.8  
2544 9.4 81463.3 -0238.0  
2545 9.5 81529.1 -0203.6  
2546 8.0 81536.6 -0229.8  
2547 9.5 81551.3 -0248.6  
2548 9.8 81556.8 -0215.6



-02 2549 8h16m

-02 2908 9h22m

|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 2549 | 9.8 | 81600.0 | -0213.2 | 2639 | 9.8 | 83041.2 | -0249.2 | 2729 | 10. | 84709.2 | -0218.3 | 2819 | 9.8 | 90645.1 | -0222.6 |
| 2550 | 9.4 | 81606.4 | -0248.7 | 2640 | 9.4 | 83045.3 | -0258.9 | 2730 | 9.9 | 84728.3 | -0208.2 | 2820 | 9.3 | 90653.5 | -0207.4 |
| 2551 | 9.2 | 81606.7 | -0213.9 | 2641 | 9.3 | 83057.9 | -0218.9 | 2731 | 10. | 84732.2 | -0211.5 | 2821 | 9.8 | 90703.4 | -0241.1 |
| 2552 | 9.2 | 81615.1 | -0228.9 | 2642 | 9.5 | 83102.8 | -0216.4 | 2732 | 9.9 | 84752.4 | -0216.0 | 2822 | 9.5 | 90706.4 | -0245.1 |
| 2553 | 8.8 | 81616.8 | -0244.9 | 2643 | 9.4 | 83119.6 | -0253.3 | 2733 | 10. | 84753.2 | -0242.5 | 2823 | 9.1 | 90706.5 | -0219.4 |
| 2554 | 9.4 | 81625.1 | -0226.6 | 2644 | 9.8 | 83127.4 | -0254.0 | 2734 | 9.1 | 84758.9 | -0211.7 | 2824 | 9.0 | 90715.9 | -0254.8 |
| 2555 | 9.5 | 81628.5 | -0252.6 | 2645 | 9.1 | 83133.9 | -0239.2 | 2735 | 6.9 | 84804.2 | -0235.7 | 2825 | 9.8 | 90735.0 | -0209.0 |
| 2556 | 9.6 | 81634.6 | -0216.8 | 2646 | 9.1 | 83140.9 | -0250.1 | 2736 | 9.8 | 84817.7 | -0218.7 | 2826 | 8.8 | 90735.4 | -0228.7 |
| 2557 | 8.2 | 81642.1 | -0229.4 | 2647 | 8.6 | 83147.7 | -0231.7 | 2737 | 7.0 | 84820.8 | -0214.2 | 2827 | 10. | 90847.7 | -0240.3 |
| 2558 | 9.5 | 81643.1 | -0242.7 | 2648 | 9.6 | 83222.0 | -0251.0 | 2738 | 9.7 | 84826.7 | -0248.6 | 2828 | 9.8 | 90852.0 | -0205.2 |
| 2559 | 8.7 | 81703.7 | -0241.2 | 2649 | 9.4 | 83232.7 | -0254.6 | 2739 | 9.3 | 84853.8 | -0214.6 | 2829 | 8.3 | 90914.6 | -0205.2 |
| 2560 | 9.1 | 81707.6 | -0250.0 | 2650 | 9.8 | 83244.9 | -0212.9 | 2740 | 9.4 | 84856.6 | -0227.4 | 2830 | 9.0 | 90944.9 | -0255.5 |
| 2561 | 8.8 | 81734.8 | -0256.9 | 2651 | 9.5 | 83313.1 | -0208.2 | 2741 | 9.5 | 84857.6 | -0229.2 | 2831 | 9.4 | 90946.5 | -0243.4 |
| 2562 | 9.5 | 81744.5 | -0224.6 | 2652 | 8.9 | 83322.7 | -0213.3 | 2742 | 9.3 | 84910.3 | -0237.9 | 2832 | 9.5 | 90948.4 | -0226.6 |
| 2563 | 9.3 | 81756.7 | -0209.0 | 2653 | 9.3 | 83340.0 | -0233.5 | 2743 | 9.7 | 84925.0 | -0252.8 | 2833 | 9.0 | 90951.9 | -0256.4 |
| 2564 | 9.5 | 81805.9 | -0244.2 | 2654 | 9.0 | 83341.1 | -0205.3 | 2744 | 9.4 | 84941.9 | -0217.4 | 2834 | 9.4 | 91021.2 | -0256.8 |
| 2565 | 8.6 | 81813.9 | -0238.8 | 2655 | 9.9 | 83350.5 | -0250.8 | 2745 | 9.2 | 84943.8 | -0214.2 | 2835 | 9.3 | 91021.5 | -0220.7 |
| 2566 | 9.0 | 81833.6 | -0230.9 | 2656 | 9.5 | 83407.6 | -0227.5 | 2746 | 9.1 | 84959.9 | -0217.9 | 2836 | 9.4 | 91033.0 | -0208.5 |
| 2567 | 9.4 | 81838.3 | -0252.6 | 2657 | 9.1 | 83426.8 | -0215.2 | 2747 | 9.5 | 85012.9 | -0215.5 | 2837 | 9.3 | 91033.9 | -0257.1 |
| 2568 | 9.6 | 81846.0 | -0240.4 | 2658 | 9.8 | 83431.7 | -0256.9 | 2748 | 9.7 | 85014.7 | -0238.9 | 2838 | 8.2 | 91036.7 | -0246.7 |
| 2569 | 10. | 81848.6 | -0249.5 | 2659 | 7.5 | 83451.4 | -0232.1 | 2749 | 9.4 | 85031.2 | -0231.8 | 2839 | 9.6 | 91115.6 | -0230.5 |
| 2570 | 9.4 | 81906.5 | -0244.7 | 2660 | 9.4 | 83455.2 | -0211.2 | 2750 | 9.1 | 85034.5 | -0222.8 | 2840 | 8.8 | 9131.9  | -0232.4 |
| 2571 | 9.5 | 81908.7 | -0235.2 | 2661 | 9.7 | 83500.2 | -0240.0 | 2751 | 9.5 | 85041.6 | -0214.3 | 2841 | 9.7 | 9137.0  | -0243.5 |
| 2572 | 8.2 | 81909.8 | -0215.8 | 2662 | 9.7 | 83521.6 | -0254.9 | 2752 | 8.5 | 85046.7 | -0234.5 | 2842 | 9.5 | 91149.5 | -0214.3 |
| 2573 | 9.4 | 81919.2 | -0231.4 | 2663 | 9.5 | 83526.5 | -0244.6 | 2753 | 9.7 | 85054.9 | -0219.4 | 2843 | 9.3 | 91214.7 | -0239.5 |
| 2574 | 9.5 | 81926.6 | -0207.9 | 2664 | 9.1 | 83531.0 | -0239.4 | 2754 | 9.4 | 85100.2 | -0247.0 | 2844 | 9.6 | 91234.5 | -0212.3 |
| 2575 | 9.6 | 81935.0 | -0215.2 | 2665 | 9.5 | 83536.5 | -0201.9 | 2755 | 9.9 | 85114.7 | -0215.6 | 2845 | 10. | 91258.5 | -0210.4 |
| 2576 | 9.0 | 81956.4 | -0258.0 | 2666 | 8.4 | 83537.7 | -0210.0 | 2756 | 9.5 | 85136.2 | -0214.6 | 2846 | 9.5 | 91105.9 | -0251.4 |
| 2577 | 8.8 | 82010.7 | -0235.0 | 2667 | 10. | 83600.3 | -0208.9 | 2757 | 9.5 | 85200.1 | -0236.8 | 2847 | 9.5 | 91108.4 | -0241.5 |
| 2578 | 9.5 | 82037.9 | -0223.9 | 2668 | 9.5 | 83604.2 | -0235.5 | 2758 | 8.8 | 85207.0 | -0225.7 | 2848 | 9.6 | 91117.5 | -0234.6 |
| 2579 | 9.3 | 82050.4 | -0229.4 | 2669 | 10. | 83605.7 | -0205.1 | 2759 | 9.8 | 85218.6 | -0252.2 | 2849 | 9.2 | 91333.8 | -0248.7 |
| 2580 | 9.1 | 82052.5 | -0245.6 | 2670 | 10. | 83611.4 | -0202.0 | 2760 | 9.7 | 85223.6 | -0250.8 | 2850 | 9.5 | 91336.4 | -0204.0 |
| 2581 | 7.0 | 82108.5 | -0202.8 | 2671 | 9.3 | 83639.4 | -0242.5 | 2761 | 9.6 | 85227.5 | -0225.7 | 2851 | 8.8 | 91341.5 | -0221.2 |
| 2582 | 9.8 | 82122.3 | -0242.8 | 2672 | 9.7 | 83656.8 | -0249.4 | 2762 | 9.4 | 85232.3 | -0201.4 | 2852 | 8.8 | 91343.1 | -0256.3 |
| 2583 | 9.5 | 82123.5 | -0205.1 | 2673 | 9.5 | 83723.8 | -0237.4 | 2763 | 9.5 | 85312.0 | -0204.0 | 2853 | 8.8 | 91343.4 | -0211.2 |
| 2584 | 9.1 | 82132.1 | -0257.5 | 2674 | 8.3 | 83736.2 | -0226.6 | 2764 | 9.6 | 85327.6 | -0237.9 | 2854 | 9.7 | 91341.8 | -0229.8 |
| 2585 | 9.5 | 82140.2 | -0219.2 | 2675 | 9.7 | 83739.8 | -0206.3 | 2765 | 9.0 | 85402.8 | -0214.9 | 2855 | 10. | 91346.5 | -0242.2 |
| 2586 | 9.8 | 82156.8 | -0212.5 | 2676 | 6.9 | 83800.8 | -0205.4 | 2766 | 7.7 | 85405.2 | -0247.7 | 2856 | 9.8 | 91400.0 | -0235.8 |
| 2587 | 9.4 | 82206.7 | -0230.9 | 2677 | 8.9 | 83840.9 | -0246.4 | 2767 | 9.4 | 85423.8 | -0243.3 | 2857 | 9.5 | 91410.6 | -0205.1 |
| 2588 | 9.5 | 82217.1 | -0230.4 | 2678 | 10. | 83900.3 | -0208.9 | 2768 | 9.0 | 85428.8 | -0214.1 | 2858 | 9.3 | 91421.1 | -0246.4 |
| 2589 | 8.8 | 82223.7 | -0240.2 | 2679 | 10. | 83903.7 | -0206.7 | 2769 | 9.3 | 85441.7 | -0256.8 | 2859 | 7.2 | 91421.0 | -0210.1 |
| 2590 | 9.2 | 82228.1 | -0244.6 | 2680 | 8.3 | 83911.0 | -0242.2 | 2770 | 9.0 | 85445.1 | -0204.2 | 2860 | 8.8 | 91421.2 | -0255.2 |
| 2591 | 9.8 | 82236.0 | -0206.1 | 2681 | 9.8 | 83923.9 | -0204.6 | 2771 | 9.0 | 85452.9 | -0251.3 | 2861 | 9.8 | 91437.0 | -0241.5 |
| 2592 | 9.6 | 82253.0 | -0253.0 | 2682 | 9.0 | 83942.2 | -0203.9 | 2772 | 8.2 | 85455.4 | -0221.6 | 2862 | 9.2 | 91436.2 | -0256.2 |
| 2593 | 9.5 | 82256.7 | -0253.6 | 2683 | 10. | 83952.9 | -0229.1 | 2773 | 9.4 | 85501.0 | -0239.5 | 2863 | 8.5 | 91436.4 | -0211.1 |
| 2594 | 9.7 | 82317.2 | -0253.8 | 2684 | 9.7 | 84003.9 | -0208.4 | 2774 | 9.2 | 85523.4 | -0223.4 | 2864 | 9.2 | 91439.1 | -0240.8 |
| 2595 | 8.5 | 82401.4 | -0202.2 | 2685 | 9.6 | 84005.7 | -0234.2 | 2775 | 9.8 | 85529.0 | -0246.9 | 2865 | 9.8 | 91447.1 | -0227.5 |
| 2596 | 9.5 | 82404.3 | -0230.5 | 2686 | 9.6 | 84008.3 | -0213.0 | 2776 | 8.9 | 85540.7 | -0242.5 | 2866 | 9.1 | 91452.0 | -0231.5 |
| 2597 | 9.8 | 82404.6 | -0243.1 | 2687 | 9.9 | 84030.2 | -0232.6 | 2777 | 9.5 | 85548.1 | -0201.2 | 2867 | 9.5 | 91508.6 | -0242.5 |
| 2598 | 10. | 82410.2 | -0247.4 | 2688 | 9.5 | 84032.8 | -0221.1 | 2778 | 10. | 85551.3 | -0236.1 | 2868 | 9.8 | 91512.4 | -0224.9 |
| 2599 | 9.6 | 82420.3 | -0233.1 | 2689 | 9.6 | 84034.1 | -0253.3 | 2779 | 9.9 | 85552.3 | -0240.1 | 2869 | 9.8 | 91521.4 | -0231.7 |
| 2600 | 9.3 | 82443.9 | -0218.4 | 2690 | 8.9 | 84045.6 | -0239.5 | 2780 | 8.9 | 85610.8 | -0247.5 | 2870 | 9.1 | 91521.9 | -0253.7 |
| 2601 | 9.6 | 82445.6 | -0224.9 | 2691 | 9.5 | 84047.4 | -0214.1 | 2781 | 10. | 85629.3 | -0258.3 | 2871 | 9.4 | 91555.0 | -0200.8 |
| 2602 | 9.1 | 82450.7 | -0253.4 | 2692 | 9.8 | 84052.6 | -0232.1 | 2782 | 8.9 | 85650.0 | -0224.7 | 2872 | 9.6 | 91609.0 | -0227.2 |
| 2603 | 9.4 | 82454.1 | -0231.3 | 2693 | 9.2 | 84125.3 | -0239.6 | 2783 | 9.1 | 85651.3 | -0218.2 | 2873 | 9.2 | 91646.4 | -0243.4 |
| 2604 | 9.0 | 82503.6 | -0210.1 | 2694 | 9.7 | 84146.7 | -0239.6 | 2784 | 9.8 | 85655.6 | -0244.9 | 2874 | 9.8 | 91741.9 | -0257.1 |
| 2605 | 9.1 | 82509.4 | -0258.0 | 2695 | 9.0 | 84147.5 | -0222.4 | 2785 | 9.6 | 85708.9 | -0241.4 | 2875 | 9.8 | 91746.7 | -0231.2 |
| 2606 | 9.5 | 82513.7 | -0253.7 | 2696 | 9.0 | 84149.2 | -0235.3 | 2786 | 9.3 | 85805.1 | -0203.2 | 2876 | 8.9 | 91756.4 | -0202.0 |
| 2607 | 9.3 | 82515.3 | -0203.6 | 2697 | 9.6 | 84157.5 | -0245.9 | 2787 | 13. | 85827.6 | -0251.3 | 2877 | 8.2 | 91812.7 | -0247.6 |
| 2608 | 7.5 | 82520.7 | -0241.5 | 2698 | 9.4 | 84158.7 | -0234.6 | 2788 | 9.8 | 85832.8 | -0223.6 | 2878 | 9.1 | 91814.1 | -0258.0 |
| 2609 | 9.5 | 82527.6 | -0209.2 | 2699 | 5.7 | 84204.0 | -0254.6 | 2789 | 9.4 | 85845.2 | -0233.9 | 2879 | 9.8 | 91833.4 | -0253.8 |
| 2610 | 9.3 | 82536.9 | -0218.4 | 2700 | 9.5 | 84222.8 | -0211.6 | 2790 | 8.8 | 85902.9 | -0221.1 | 2880 | 9.3 | 91834.6 | -0241.1 |
| 2611 | 9.4 | 82548.7 | -0242.4 | 2701 | 9.5 | 84230.9 | -0219.1 | 2791 | 7.7 | 85910.1 | -0201.5 | 2881 | 9.9 | 91836.9 | -0239.8 |
| 2612 | 9.1 | 82558.0 | -0259.4 | 2702 | 8.5 | 84232.3 | -0238.2 | 2792 | 10. | 85928.7 | -0238.2 | 2882 | 9.8 | 91909.6 | -0217.5 |
| 2613 | 7.9 | 82613.0 | -0229.4 | 2703 | 9.5 | 84243.2 | -0249.4 | 2793 | 9.4 | 85950.0 | -0254.3 | 2883 | 9.0 | 91921.1 | -0245.1 |
| 2614 | 9.4 | 82627.1 | -0243.8 | 2704 | 9.4 | 84245.6 | -0252.2 | 2794 | 8.8 | 90011.8 | -0230.2 | 2884 | 9.5 | 91926.4 | -0230.2 |
| 2615 | 8.3 | 82700.4 | -0246.5 | 2705 | 9.8 | 84251.5 | -0226.1 | 2795 | 9.6 | 90015.2 | -0234.5 | 2885 | 8.6 | 91932.8 | -0236.9 |
| 2616 | 8.4 | 82708.2 | -0213.6 | 2706 | 8.1 | 84256.3 | -0212.1 | 2796 | 10. | 90024.0 | -0240.0 | 2886 | 10. | 91933.7 | -0213.1 |
| 2617 | 9.7 | 82710.1 | -0257.8 | 2707 | 8.9 | 84315.9 | -0218.7 | 2797 | 10. | 90049.5 | -0259.5 | 2887 | 9.8 | 91948.0 | -0207.2 |
| 2618 | 8.0 | 82717.8 | -0215.4 | 2708 | 9.2 | 84325.2 | -0247.8 | 2798 | 10. | 90108.2 | -0235.3 | 2888 | 9.6 | 91950.5 | -0210.1 |
| 2619 | 8.7 | 82737.7 | -0230.1 | 2709 | 8.9 | 84327.4 | -0257.4 | 2799 | 9.5 | 90131.5 | -0203.4 | 2889 | 9.2 | 91953.3 | -0213.7 |
| 2620 | 9.2 | 82751.9 | -0209.7 | 2710 | 9.8 | 84344.8 | -0255.5 | 2800 | 10. | 90142.9 | -0257.2 | 2890 | 9.5 | 91958.7 | -0252.3 |
| 2621 | 9.8 | 82759.3 | -0216.2 | 2711 | 9.7 | 84346.5 | -0241.9 | 2801 | 9.4 | 90156.4 | -0256.6 | 2891 | 9.0 | 92001.0 | -0214.4 |
| 2622 | 9.8 | 82759.5 | -0234.2 | 2712 | 9.8 | 84348.2 | -0232.6 | 2802 | 9.1 | 90222.1 | -0259.3 | 2892 | 9.5 | 92017.0 | -0203.9 |
| 2623 | 9.1 | 82812.2 | -0212.5 | 2713 | 9.4 | 84405.5 | -0201.5 | 2803 | 10. | 90254.6 | -0230.8 | 2893 | 9.6 | 92044.4 | -0      |



-02 2909 9h22m

2909 9.4 92258.4 -0224.1  
2910 9.4 92326.4 -0217.6  
2911 9.8 92338.4 -0225.7  
2912 9.6 92340.1 -0234.3  
2913 9.5 92340.4 -0241.3  
2914 9.8 92340.9 -0225.9  
2915 9.8 92345.1 -0251.9  
2916 7.2 92400.0 -0241.2  
2917 7.5 92428.4 -0245.2  
2918 9.4 92433.5 -0255.3

2919 7.8 92453.0 -0252.9  
2920 9.9 92526.5 -0233.6  
2921 9.6 92534.0 -0240.9  
2922 9.2 92534.4 -0250.5  
2923 9.7 92532.2 -0210.7  
2924 8.3 92554.1 -0230.4  
2925 7.0 92714.4 -0250.8  
2926 9.4 92728.9 -0200.6  
2927 9.8 92738.1 -0240.1  
2928 8.3 92757.4 -0237.3

2929 9.9 92802.9 -0256.5  
2930 9.8 92813.5 -0203.9  
2931 8.8 92817.4 -0219.3  
2932 9.8 92826.3 -0258.4  
2933 9.6 92827.4 -0250.2  
2934 7.5 92907.5 -0207.9  
2935 8.9 92907.9 -0239.6  
2936 9.0 92913.9 -0234.1  
2937 9.2 92941.0 -0221.3  
2938 9.6 93019.3 -0246.4

2939 6.0 93026.2 -0231.1  
2940 9.0 93038.1 -0232.1  
2941 9.3 93037.0 -0206.1  
2942 9.4 93050.4 -0234.0  
2943 9.4 93107.8 -0249.8  
2944 8.3 93110.0 -0216.4  
2945 9.8 93131.9 -0226.5  
2946 7.3 93143.4 -0210.8  
2947 8.7 93155.4 -0242.1  
2948 8.3 93201.5 -0201.0

2949 8.8 93208.0 -0220.6  
2950 9.3 93217.4 -0233.3  
2951 9.8 93233.5 -0204.7  
2952 9.5 93332.4 -0238.0  
2953 9.5 93336.4 -0230.9  
2954 9.1 93418.5 -0258.4  
2955 9.4 93439.3 -0257.7  
2956 10. 93510.5 -0248.4  
2957 9.3 93542.2 -0242.4  
2958 9.0 93542.4 -0214.3

2959 10. 93555.5 -0253.3  
2960 9.5 93608.1 -0252.0  
2961 9.5 93610.9 -0222.8  
2962 8.5 93615.4 -0242.2  
2963 10. 93652.3 -0257.0  
2964 8.8 93702.9 -0232.8  
2965 9.1 93758.9 -0212.7  
2966 9.7 93812.6 -0246.6  
2967 9.7 93813.1 -0242.9  
2968 9.8 93818.9 -0228.1

2969 8.8 93832.5 -0222.9  
2970 8.3 93838.9 -0226.5  
2971 9.5 93849.1 -0254.8  
2972 9.0 93850.4 -0203.2  
2973 9.6 93909.0 -0201.2  
2974 9.8 93910.2 -0225.0  
2975 9.3 93916.2 -0213.2  
2976 8.6 93921.1 -0251.6  
2977 7.5 93923.7 -0232.2  
2978 9.2 93927.4 -0251.5

2979 8.2 93936.4 -0241.9  
2980 9.6 94013.8 -0247.4  
2981 9.9 94022.9 -0229.6  
2982 9.2 94025.9 -0236.7  
2983 9.4 94029.9 -0210.6  
2984 9.2 94029.9 -0230.7  
2985 9.1 94110.4 -0236.3  
2986 8.4 94123.5 -0202.4  
2987 9.4 94143.8 -0259.1  
2988 9.5 94210.4 -0255.4

2989 9.8 94234.8 -0256.6  
2990 9.8 94238.4 -0202.2  
2991 9.9 94252.9 -0221.1  
2992 9.2 94348.7 -0223.2  
2993 8.9 94417.4 -0212.1  
2994 9.3 94456.6 -0247.9  
2995 8.8 94508.4 -0218.8  
2996 9.4 94514.3 -0221.9  
2997 9.0 94522.8 -0216.5  
2998 9.5 94537.9 -0217.9

2999 9.8 94539.9 -0200.5  
3000 9.6 94553.8 -0259.9  
3001 9.8 94600.7 -0228.0  
3002 9.8 94601.9 -0212.6  
3003 8.8 94620.4 -0208.5  
3004 9.8 94626.3 -0259.7  
3005 9.3 94645.6 -0252.3  
3006 9.8 94659.3 -0244.3  
3007 9.5 94705.2 -0203.1  
3008 9.2 94705.9 -0241.6

3009 9.6 94708.9 -0233.2  
3010 9.8 94723.1 -0259.9  
3011 9.9 94730.7 -0223.1  
3012 9.3 94743.3 -0242.0  
3013 9.6 94814.9 -0200.6  
3014 9.5 94831.7 -0233.2  
3015 9.4 94833.2 -0233.4  
3016 9.4 94932.9 -0225.7  
3017 9.0 94955.9 -0254.6  
3018 9.8 95017.4 -0275.1

3019 9.5 95028.9 -0275.6  
3020 9.3 95034.4 -0207.8  
3021 9.8 95106.1 -0206.7  
3022 8.3 95111.3 -0256.6  
3023 8.5 95137.9 -0251.6  
3024 7.0 95141.4 -0219.4  
3025 9.4 95144.0 -0219.7  
3026 9.1 95150.9 -0207.3  
3027 9.6 95156.1 -0224.8  
3028 7.5 95157.4 -0222.7

3029 9.6 95231.2 -0243.6  
3030 8.5 95234.2 -0245.5  
3031 9.2 95323.9 -0215.0  
3032 6.8 95339.1 -0229.8  
3033 9.8 95342.3 -0233.4  
3034 9.3 95357.4 -0208.1  
3035 9.2 95407.8 -0223.1  
3036 8.8 95414.9 -0212.4  
3037 9.5 95431.4 -0243.9  
3038 9.4 95431.9 -0221.5

3039 8.8 95443.3 -0252.8  
3040 9.8 95503.9 -0234.0  
3041 9.8 95533.9 -0212.6  
3042 9.1 95535.9 -0212.6  
3043 9.4 95561.9 -0218.2  
3044 8.8 95616.0 -0204.3  
3045 7.8 95618.9 -0247.0  
3046 9.4 95620.8 -0239.2  
3047 10. 95640.3 -0222.8  
3048 8.5 95715.4 -0200.2

3049 9.5 95735.8 -0218.8  
3050 9.5 95735.9 -0232.1  
3051 9.5 95737.0 -0204.7  
3052 7.0 95752.3 -0248.9  
3053 7.4 95800.5 -0240.4  
3054 9.3 95804.2 -0214.5  
3055 9.4 95809.6 -0214.4  
3056 9.7 95812.9 -0225.5  
3057 9.2 95821.7 -0250.9  
3058 9.9 95828.7 -0218.7

3059 9.8 95829.7 -0254.4  
3060 9.7 95843.1 -0213.9  
3061 9.7 95847.0 -0257.7  
3062 9.2 95908.7 -0239.5  
3063 9.5 95909.2 -0225.3  
3064 9.3 95914.9 -0217.7  
3065 9.9 95917.8 -0221.3  
3066 9.9 95925.7 -0229.9  
3067 7.6 95938.5 -0234.6  
3068 9.7 100057.7 -0257.0

3069 7.5 100110.6 -0246.3  
3070 10. 100115.1 -0259.8  
3071 10. 100120.3 -0235.3  
3072 9.4 100125.5 -0218.6  
3073 9.9 100138.9 -0211.5  
3074 9.8 100149.1 -0224.6  
3075 9.2 100213.2 -0224.4  
3076 9.5 100236.4 -0207.0  
3077 9.5 100249.1 -0275.8  
3078 9.2 100251.6 -0241.8

3079 9.3 100252.5 -0222.0  
3080 10. 100300.8 -0220.7  
3081 10. 100301.2 -0224.9  
3082 9.6 100309.3 -0242.3  
3083 10. 100310.5 -0221.8  
3084 9.6 100411.7 -0233.8  
3085 9.8 100413.6 -0224.0  
3086 10. 100446.5 -0215.5  
3087 9.5 100451.2 -0240.4  
3088 9.8 100452.7 -0249.2

3089 9.8 100514.4 -0265.7  
3090 9.8 100517.7 -0250.7  
3091 9.8 100623.2 -0231.9  
3092 9.6 100626.1 -0237.8  
3093 9.6 100629.2 -0231.7  
3094 9.1 100644.7 -0261.3  
3095 9.5 100655.8 -0280.0  
3096 9.2 100724.0 -0216.2  
3097 7.8 100721.8 -0288.9  
3098 9.7 100725.0 -0221.1

3099 9.0 100726.1 -0227.2  
3100 9.3 100727.2 -0265.3  
3101 9.7 100738.3 -0245.9  
3102 10. 100743.5 -0211.6  
3103 9.8 100845.8 -0247.7  
3104 9.1 100851.6 -0217.9  
3105 10. 100901.4 -0210.7  
3106 9.1 100910.7 -0266.2  
3107 9.8 100923.1 -0214.6  
3108 7.7 100925.7 -0266.6

3109 9.4 100941.7 -0261.5  
3110 8.7 100941.7 -0261.7  
3111 9.8 100947.9 -0262.9  
3112 9.4 101121.3 -0249.1  
3113 9.8 101142.5 -0231.5  
3114 9.8 101155.8 -0247.6  
3115 9.7 101159.9 -0248.5  
3116 9.5 101202.2 -0244.2  
3117 9.2 101213.8 -0244.2  
3118 8.6 101216.1 -0248.6

3119 9.4 101223.1 -0212.9  
3120 9.4 101226.0 -0212.9  
3121 9.4 101260.3 -0210.0  
3122 10. 101264.5 -0247.9  
3123 9.2 101402.9 -0217.6  
3124 9.8 101455.8 -0211.4  
3125 9.7 101449.7 -0248.0  
3126 9.9 101455.1 -0211.0  
3127 9.2 101500.8 -0244.4  
3128 9.7 101513.6 -0208.2

3129 9.8 101544.8 -0231.1  
3130 9.4 101549.7 -0215.3  
3131 9.4 101611.6 -0240.7  
3132 6.7 101612.7 -0246.7  
3133 8.9 101613.4 -0218.6  
3134 9.7 101620.7 -0219.8  
3135 9.8 101666.4 -0251.1  
3136 9.7 101712.4 -0248.6  
3137 9.2 101744.2 -0211.9  
3138 8.8 101746.2 -0247.2

3139 10. 101749.1 -0201.8  
3140 9.8 101846.2 -0251.1  
3141 9.3 101907.5 -0209.9  
3142 9.2 101911.8 -0244.8  
3143 8.5 101949.7 -0219.0  
3144 9.2 101940.4 -0288.0  
3145 9.0 101967.3 -0217.0  
3146 9.9 101981.8 -0241.7  
3147 8.3 101983.6 -0208.8  
3148 10. 101984.1 -0256.0

3149 9.1 102043.3 -0265.2  
3150 10. 102116.1 -0248.9  
3151 9.3 102120.6 -0215.4  
3152 9.5 102142.0 -0227.6  
3153 9.2 102151.9 -0238.4  
3154 8.7 102154.1 -0247.2  
3155 6.6 102205.9 -0242.1  
3156 9.8 102215.6 -0241.1  
3157 9.7 102234.0 -0216.6  
3158 10. 102239.1 -0208.0

3159 10. 102241.1 -0244.2  
3160 8.6 102245.6 -0232.5  
3161 9.0 102248.9 -0230.0  
3162 9.8 102335.6 -0238.3  
3163 9.6 102346.5 -0215.5  
3164 10. 102346.9 -0239.7  
3165 8.5 102411.6 -0247.4  
3166 9.7 102416.1 -0208.6  
3167 9.4 102444.4 -0244.9  
3168 9.7 102505.6 -0244.7

3169 9.2 102528.5 -0231.7  
3170 9.4 102527.8 -0212.7  
3171 9.8 102545.4 -0244.8  
3172 9.6 102674.4 -0247.3  
3173 8.8 102688.5 -0217.0  
3174 9.8 102747.7 -0209.9  
3175 9.9 102747.0 -0245.5  
3176 9.5 102801.1 -0213.9  
3177 8.8 102803.9 -0217.3  
3178 9.1 102841.6 -0215.1

-02 2268 10h54m

2179 9.0 102844.9 -0236.3  
2180 9.6 102845.3 -0245.6  
2181 9.8 102858.2 -0219.1  
2182 9.7 102911.0 -0241.9  
2183 9.1 102919.4 -0230.5  
2184 9.4 102928.4 -0234.3  
2185 10. 102935.6 -0212.7  
2186 9.7 102939.6 -0214.2  
2187 10. 102953.4 -0204.3  
2188 9.1 102959.2 -0221.1

2189 9.5 102961.4 -0235.8  
2190 9.2 102973.1 -0229.5  
2191 9.7 102977.0 -0241.4  
2192 9.8 102977.9 -0234.8  
2193 9.8 102977.7 -0217.0  
2194 9.6 102984.9 -0244.2  
2195 10. 102985.8 -0250.7  
2196 9.4 102986.0 -0242.6  
2197 9.4 102987.8 -0244.4  
2198 9.4 102988.6 -0244.9

2199 9.1 102996.3 -0227.1  
2200 10. 102996.4 -0200.5  
2201 9.8 102999.6 -0224.4  
2202 9.7 103002.3 -0246.1  
2203 9.4 103006.5 -0258.7  
2204 8.9 103007.1 -0248.0  
2205 9.9 103057.4 -0200.4  
2206 9.5 103063.6 -0211.4  
2207 8.6 103064.3 -0215.9  
2208 8.8 103063.7 -0217.0

2209 9.4 103064.4 -0230.3  
2210 9.8 103075.4 -0242.7  
2211 9.7 103079.7 -0208.2  
2212 9.7 103082.8 -0231.3  
2213 10. 103086.4 -0245.8  
2214 10. 103089.3 -0256.3  
2215 9.6 103096.6 -0215.7  
2216 9.7 103099.6 -0240.3  
2217 10. 103095.9 -0212.5  
2218 9.8 103098.2 -0219.5

2219 10. 103091.1 -0226.5  
2220 9.1 103097.0 -0212.2  
2221 8.0 103109.5 -0207.9  
2222 9.9 103116.6 -0241.8  
2223 8.9 103121.7 -0240.3  
2224 8.9 103121.7 -0258.9  
2225 9.5 103111.3 -0212.9  
2226 9.8 103128.6 -0249.5  
2227 8.5 103144.6 -0200.5  
2228 9.0 103140.8 -0212.9

2229 9.1 103143.1 -0227.1  
2230 8.6 103145.3 -0225.9  
2231 10. 103144.7 -0212.8  
2232 9.5 103148.9 -0231.6  
2233 9.7 103157.5 -0241.9  
2234 9.8 103158.3 -0241.9  
2235 9.1 103158.5 -0240.7  
2236 8.8 103162.9 -0214.2  
2237 10. 103171.7 -0242.7  
2238 8.7 103161.1 -0245.8

2239 9.1 103171.7 -0244.5  
2240 10. 103174.4 -0246.1  
2241 9.7 103184.8 -0216.8  
2242 9.2 103189.1 -0221.4  
2243 9.7 103190.3 -0244.7  
2244 9.7 103191.3 -0245.6  
2245 9.5 103191.7 -0247.6  
2246 9.4 103198.7 -0242.1  
2247 8.2 103196.6 -0214.6  
2248 9.7 103195.9 -0248.9

2249 9.5 103196.7 -0208.7  
2250 10. 103199.9 -0227.8  
2251 9.2 103199.7 -0246.7  
2252 9.8 103199.7 -0246.2  
2253 9.2 103199.9 -0256.9  
2254 8.7 103199.7 -0210.1  
2255 9.6 103199.7 -0217.4  
2256 9.5 103199.7 -0206.4  
2257 9.5 103199.7 -0209.1  
2258 9.5 103199.7 -0244.9

2259 8.5 103199.7 -0242.5  
2260 10. 103199.7 -0217.8  
2261 9.1 103199.7 -0246.2  
2262 9.9 103199.7 -0216.7  
2263 10. 103199.7 -0230.5  
2264 7.2 103199.7 -0241.8  
2265 9.6 103199.7 -0204.4  
2266 9.8 103199.7 -0216.9  
2267 8.9 103199.7 -0209.5  
2268 9.4 103199.7 -0242.8



-02 3269 10h54m

3269 9.6 105449.4 -0248.3  
3270 6.7 105514.4 -0244.1  
3271 9.4 105517.1 -0234.9  
3272 9.0 105524.8 -0235.8  
3273 9.8 105534.8 -0201.6  
3274 9.4 105536.3 -0235.6  
3275 9.8 105541.2 -0210.6  
3276 9.2 105544.6 -0240.4  
3277 10. 105554.7 -0227.8  
3278 8.5 105556.8 -0216.4  
  
3279 10. 105603.5 -0228.0  
3280 9.0 105614.9 -0225.5  
3281 9.5 105629.5 -0243.7  
3282 9.7 105635.5 -0259.5  
3283 8.5 105719.2 -0211.6  
3284 9.7 105735.7 -0245.7  
3285 9.6 105741.3 -0219.5  
3286 9.4 105800.6 -0202.8  
3287 8.8 105920.4 -0241.0  
3288 9.5 105931.8 -0256.2  
  
3289 9.0 105945.9 -0232.4  
3290 10. 105956.5 -0236.4  
3291 10. 106006.5 -0239.6  
3292 10. 106024.2 -0247.6  
3293 10. 106041.1 -0208.3  
3294 9.8 106115.2 -0237.4  
3295 9.5 106151.5 -0239.4  
3296 9.9 106159.0 -0207.4  
3297 10. 106204.4 -0238.0  
3298 8.8 106220.6 -0212.3  
  
3299 9.9 106229.0 -0245.9  
3300 9.9 106300.1 -0219.4  
3301 9.0 106323.6 -0256.1  
3302 9.6 106411.7 -0219.2  
3303 9.4 106420.0 -0246.4  
3304 10. 106439.8 -0257.2  
3305 9.2 106501.2 -0214.1  
3306 9.9 106532.1 -0252.2  
3307 9.1 106619.4 -0259.1  
3308 10. 106650.3 -0259.7  
  
3309 9.3 110714.7 -0215.9  
3310 10. 110807.5 -0240.4  
3311 9.1 110828.6 -0203.1  
3312 7.7 110847.9 -0240.9  
3313 8.7 110855.1 -0258.3  
3314 9.0 110911.2 -0251.1  
3315 4.9 110916.9 -0251.0  
3316 9.5 110918.2 -0214.0  
3317 9.8 110955.0 -0200.4  
3318 9.4 111023.2 -0250.2  
  
3319 9.8 111027.4 -0229.7  
3320 9.2 111036.3 -0224.1  
3321 10. 111146.1 -0204.0  
3322 9.0 111159.5 -0200.2  
3323 9.4 111211.1 -0203.3  
3324 10. 111305.7 -0214.9  
3325 8.5 111308.1 -0206.3  
3326 9.8 111333.3 -0259.4  
3327 10. 111337.8 -0221.4  
3328 8.7 111344.3 -0258.1  
  
3329 9.6 111428.3 -0253.4  
3330 9.0 111434.6 -0248.1  
3331 9.5 111526.1 -0204.0  
3332 9.1 111535.9 -0230.8  
3333 9.7 111538.6 -0210.5  
3334 10. 111542.2 -0211.5  
3335 9.2 111542.7 -0200.0  
3336 9.4 111604.7 -0253.9  
3337 8.3 111609.9 -0229.4  
3338 9.7 111701.7 -0251.2  
  
3339 9.2 111732.2 -0214.9  
3340 9.8 111735.8 -0257.1  
3341 9.5 111759.1 -0243.7  
3342 8.7 111805.8 -0225.6  
3343 9.3 111823.6 -0210.6  
3344 9.7 111835.0 -0221.3  
3345 9.5 111921.2 -0214.9  
3346 9.2 111923.1 -0210.7  
3347 9.6 111932.3 -0258.2  
3348 10. 111939.6 -0207.1  
  
3349 8.9 111954.5 -0245.4  
3350 10. 112052.9 -0225.9  
3351 9.9 112059.0 -0238.7  
3352 9.1 112107.4 -0228.6  
3353 8.8 112115.7 -0234.2  
3354 9.4 112115.9 -0231.1  
3355 9.8 112119.2 -0250.3  
3356 9.1 112141.1 -0206.1  
3357 8.8 112158.9 -0255.2  
3358 9.1 112214.2 -0211.6

3359 9.9 112245.7 -0217.7  
3360 5.0 112254.3 -0212.2  
3361 9.4 112300.4 -0228.2  
3362 9.3 112305.0 -0240.7  
3363 8.8 112338.9 -0208.9  
3364 8.5 112442.4 -0244.1  
3365 9.5 112443.2 -0244.2  
3366 9.6 112502.7 -0245.9  
3367 9.7 112533.3 -0241.2  
3368 9.6 112534.2 -0205.5  
  
3369 9.3 112552.0 -0215.4  
3370 9.3 112612.4 -0244.4  
3371 10. 112616.6 -0216.8  
3372 9.4 112628.7 -0218.3  
3373 8.8 112657.8 -0242.2  
3374 9.5 112750.4 -0203.9  
3375 9.5 112818.3 -0251.9  
3376 9.1 112829.6 -0218.7  
3377 9.8 112842.8 -0205.9  
3378 8.9 112907.0 -0246.8  
  
3379 9.4 112911.3 -0252.4  
3380 9.3 112914.3 -0210.3  
3381 9.5 112930.1 -0225.1  
3382 9.5 112953.7 -0216.1  
3383 8.0 113001.4 -0205.2  
3384 8.9 113005.0 -0249.6  
3385 9.4 113155.5 -0212.8  
3386 9.7 113213.1 -0243.5  
3387 9.2 113220.8 -0211.5  
3388 9.4 113227.3 -0211.2  
  
3389 8.9 113244.3 -0211.2  
3390 8.5 113252.1 -0230.9  
3391 9.1 113326.3 -0252.0  
3392 9.6 113348.2 -0219.3  
3393 9.4 113352.2 -0230.7  
3394 9.9 113425.2 -0213.7  
3395 9.0 113437.2 -0213.9  
3396 9.3 113449.7 -0223.1  
3397 9.0 113505.7 -0210.6  
3398 9.3 113524.0 -0234.5  
  
3399 7.2 113525.2 -0244.4  
3400 9.4 113551.7 -0243.1  
3401 9.5 113554.7 -0250.1  
3402 10. 113655.1 -0202.2  
3403 9.5 113655.9 -0223.7  
3404 9.5 113700.5 -0225.3  
3405 9.7 113707.0 -0210.5  
3406 9.3 113734.7 -0219.6  
3407 9.1 113738.9 -0206.6  
3408 9.8 113823.8 -0249.2  
  
3409 9.6 113843.9 -0200.8  
3410 7.3 113854.8 -0211.7  
3411 7.2 113915.6 -0256.2  
3412 9.5 113936.9 -0200.5  
3413 9.6 113951.0 -0235.3  
3414 8.8 113957.1 -0217.0  
3415 9.1 114023.9 -0253.7  
3416 9.5 114030.7 -0212.4  
3417 7.7 114101.5 -0225.5  
3418 9.5 114118.2 -0236.7  
  
3419 9.5 114118.4 -0222.4  
3420 8.8 114152.0 -0230.7  
3421 9.8 114203.2 -0211.9  
3422 9.9 114205.9 -0238.7  
3423 9.5 114348.5 -0229.2  
3424 9.5 114351.0 -0249.1  
3425 9.9 114358.4 -0236.0  
3426 9.7 114414.7 -0200.9  
3427 9.8 114424.0 -0208.8  
3428 9.7 114426.0 -0246.7  
  
3429 9.8 114443.1 -0238.1  
3430 9.8 114443.5 -0203.2  
3431 9.5 114609.0 -0211.8  
3432 10. 114609.8 -0245.2  
3433 7.0 114626.9 -0258.0  
3434 9.5 114708.9 -0235.8  
3435 9.4 114709.7 -0236.9  
3436 9.3 114722.1 -0216.6  
3437 9.5 114749.1 -0218.4  
3438 8.3 114750.9 -0238.2  
  
3439 8.3 114758.2 -0247.2  
3440 9.4 114819.0 -0229.5  
3441 9.8 114909.5 -0220.7  
3442 9.8 114910.3 -0222.6  
3443 9.9 115018.7 -0248.1  
3444 9.6 115041.2 -0206.7  
3445 10. 115131.8 -0258.7  
3446 7.3 115149.4 -0230.9  
3447 9.2 115209.0 -0242.5  
3448 10. 115305.9 -0204.1

3449 8.8 115317.2 -0207.8  
3450 8.7 115343.3 -0245.6  
3451 9.5 115419.2 -0253.5  
3452 9.5 115532.9 -0204.9  
3453 7.7 115548.3 -0235.2  
3454 8.8 115651.2 -0201.6  
3455 9.5 115658.5 -0221.2  
3456 9.2 115711.8 -0234.8  
3457 9.5 115741.0 -0220.6  
3458 9.9 115744.0 -0221.5  
  
3459 9.3 115831.5 -0257.9  
3460 6.5 115834.5 -0219.2  
3461 10. 115848.1 -0246.0  
3462 9.5 115857.6 -0245.4  
3463 9.0 115929.2 -0248.5  
3464 9.5 115940.9 -0207.0  
3465 9.8 120012.1 -0244.8  
3466 8.3 120023.5 -0218.8  
3467 9.5 120039.0 -0214.3  
3468 10. 120042.9 -0207.7  
  
3469 9.0 120103.0 -0240.5  
3470 9.4 120103.6 -0210.9  
3471 9.5 120126.4 -0228.4  
3472 9.4 120246.1 -0257.6  
3473 9.7 120309.5 -0249.2  
3474 8.8 120327.0 -0220.2  
3475 10. 120347.0 -0235.3  
3476 9.5 120354.5 -0255.4  
3477 9.3 120356.6 -0224.4  
3478 6.7 120356.8 -0258.1  
  
3479 9.0 120441.5 -0250.4  
3480 10. 120452.1 -0245.6  
3481 7.3 120508.0 -0217.5  
3482 10. 120511.9 -0208.6  
3483 9.5 120546.2 -0246.3  
3484 9.3 120552.3 -0224.5  
3485 10. 120653.5 -0234.2  
3486 10. 120836.9 -0206.4  
3487 8.6 120842.1 -0212.6  
3488 7.8 120850.9 -0225.7  
  
3489 9.2 120854.4 -0255.9  
3490 9.7 120855.7 -0253.3  
3491 10. 120942.9 -0201.9  
3492 8.7 120959.4 -0229.9  
3493 9.3 121045.5 -0213.3  
3494 8.3 121108.5 -0213.3  
3495 10. 121111.7 -0258.2  
3496 9.1 121115.5 -0247.9  
3497 8.3 121148.1 -0230.9  
3498 9.4 121150.4 -0229.3  
  
3499 10. 121203.6 -0244.5  
3500 9.2 121248.5 -0240.0  
3501 9.8 121254.1 -0212.2  
3502 9.5 121308.7 -0201.2  
3503 9.4 121323.5 -0248.7  
3504 9.8 121338.5 -0209.8  
3505 9.5 121401.7 -0244.3  
3506 9.5 121445.4 -0258.6  
3507 10. 121448.9 -0214.0  
3508 10. 121514.6 -0252.1  
  
3509 10. 121535.7 -0249.7  
3510 8.9 121609.8 -0252.6  
3511 9.4 121629.0 -0214.2  
3512 9.4 121705.2 -0241.9  
3513 9.5 121708.0 -0231.4  
3514 10. 121727.6 -0203.7  
3515 10. 121736.0 -0225.6  
3516 9.3 121808.6 -0212.4  
3517 9.0 121816.0 -0218.7  
3518 9.5 121827.3 -0231.3  
  
3519 8.0 121933.5 -0244.0  
3520 8.3 121944.3 -0238.9  
3521 9.5 121949.0 -0250.5  
3522 9.5 121952.0 -0225.1  
3523 9.2 121953.9 -0226.2  
3524 9.1 122009.9 -0230.9  
3525 9.8 122015.7 -0258.6  
3526 9.5 122047.9 -0207.7  
3527 9.6 122219.2 -0201.2  
3528 8.5 122219.6 -0230.9  
  
3529 9.3 122245.7 -0258.9  
3530 9.9 122349.8 -0244.0  
3531 8.6 122415.0 -0254.7  
3532 9.1 122514.6 -0220.6  
3533 8.0 122645.9 -0255.2  
3534 9.2 122649.9 -0253.7  
3535 9.4 122741.0 -0234.8  
3536 10. 122744.3 -0220.9  
3537 9.5 122750.4 -0243.6  
3538 9.2 122756.3 -0225.2

3539 10. 122800.3 -0202.2  
3540 8.0 122801.4 -0244.7  
3541 9.1 122812.3 -0213.0  
3542 8.3 122817.3 -0213.0  
3543 10. 122819.8 -0222.0  
3544 9.4 122853.3 -0209.1  
3545 9.5 122954.3 -0241.0  
3546 8.6 123005.9 -0246.3  
3547 9.5 123030.5 -0228.5  
3548 9.2 123051.4 -0219.9  
  
3549 8.5 123121.0 -0230.6  
3550 9.5 123127.4 -0225.3  
3551 9.5 123159.4 -0243.6  
3552 7.8 123227.2 -0216.1  
3553 9.0 123230.7 -0206.5  
3554 10. 123302.8 -0254.1  
3555 10. 123315.4 -0214.1  
3556 9.5 123319.4 -0235.3  
3557 9.6 123341.9 -0237.1  
3558 9.8 123400.9 -0208.5  
  
3559 9.5 123410.4 -0230.5  
3560 9.8 123420.3 -0257.7  
3561 9.5 123423.0 -0205.3  
3562 9.7 123519.4 -0222.6  
3563 9.0 123545.7 -0210.1  
3564 8.8 123557.3 -0204.5  
3565 10. 123609.4 -0217.8  
3566 9.7 123624.4 -0209.8  
3567 6.8 123643.7 -0202.9  
3568 10. 123655.5 -0255.3  
  
3569 10. 123656.4 -0212.9  
3570 10. 123701.9 -0258.3  
3571 9.7 123748.7 -0257.4  
3572 9.5 123815.4 -0235.1  
3573 9.0 123827.7 -0214.4  
3574 9.7 123834.4 -0214.2  
3575 10. 123922.4 -0227.1  
3576 10. 123939.4 -0214.9  
3577 10. 123941.4 -0240.9  
3578 10. 124014.4 -0228.5  
  
3579 9.9 124018.1 -0240.9  
3580 8.7 124142.8 -0254.4  
3581 10. 124150.4 -0224.5  
3582 9.8 124152.5 -0240.9  
3583 10. 124153.4 -0222.7  
3584 9.5 124222.2 -0214.1  
3585 9.5 124238.4 -0226.4  
3586 9.7 124242.4 -0240.2  
3587 8.5 124316.3 -0255.3  
3588 9.9 124318.6 -0252.1  
  
3589 9.0 124351.7 -0206.5  
3590 10. 124410.5 -0254.0  
3591 9.0 124437.9 -0236.5  
3592 8.8 124453.4 -0254.5  
3593 6.2 124545.5 -0246.0  
3594 9.5 124746.4 -0230.8  
3595 10. 124747.4 -0243.3  
3596 8.9 124748.7 -0249.3  
3597 7.9 124813.1 -0246.2  
3598 9.3 124832.1 -0226.9  
  
3599 10. 124843.5 -0236.6  
3600 10. 124902.4 -0215.6  
3601 9.0 124903.7 -0248.6  
3602 10. 124939.4 -0224.5  
3603 10. 125002.3 -0249.5  
3604 9.7 125105.3 -0226.4  
3605 7.2 125112.2 -0207.2  
3606 8.5 125122.1 -0245.1  
3607 8.9 125130.4 -0252.3  
3608 9.4 125224.0 -0218.5  
  
3609 6.3 125307.4 -0235.2  
3610 9.4 125359.3 -0212.2  
3611 9.9 125408.7 -0228.6  
3612 10. 125409.6 -0253.6  
3613 9.5 125411.9 -0230.2  
3614 9.2 125420.3 -0232.0  
3615 9.6 125437.4 -0231.8  
3616 9.4 125444.3 -0232.5  
3617 8.5 125532.5 -0222.5  
3618 10. 125533.3 -0238.5  
  
3619 10. 125544.2 -0201.4  
3620 8.8 125549.9 -0210.9  
3621 7.5 125625.5 -0226.3  
3622 6.7 125626.5 -0252.9  
3623 9.5 125628.3 -0235.4  
3624 9.5 125705.0 -0252.2  
3625 9.8 125730.3 -0222.5  
3626 10. 125848.6 -0252.2  
3627 9.2 125932.0 -0229.5  
3628 9.1 125937.9 -0231.5

-02 3628 12h59m



-02 3629 12h59m

3629 9.5 125950.3 -0222.0  
3630 9.3 130012.3 -0256.9  
3631 9.8 130015.9 -0232.7  
3632 9.7 130016.7 -0253.6  
3633 10. 130052.3 -0223.8  
3634 8.7 130058.0 -0201.2  
3635 9.4 130130.7 -0254.2  
3636 9.5 130136.1 -0257.0  
3637 9.4 130203.5 -0226.1  
3638 8.3 130215.4 -0236.6

3639 9.3 130225.3 -0212.1  
3640 10. 130235.4 -0205.8  
3641 9.2 130249.0 -0240.9  
3642 8.7 130315.4 -0230.8  
3643 10. 130332.6 -0254.3  
3644 9.0 130430.7 -0214.4  
3645 9.4 130435.7 -0212.2  
3646 10. 130516.7 -0207.7  
3647 9.3 130528.7 -0205.4  
3648 10. 130535.8 -0249.6

3649 9.1 130543.2 -0217.2  
3650 9.4 130545.0 -0224.1  
3651 7.5 130552.1 -0243.1  
3652 9.8 130628.3 -0253.2  
3653 8.2 130636.7 -0202.1  
3654 9.9 130701.6 -0245.2  
3655 10. 130712.3 -0213.2  
3656 10. 130721.3 -0208.7  
3657 9.4 130732.5 -0228.1  
3658 9.3 130742.7 -0214.0

3659 8.6 130830.1 -0220.0  
3660 9.4 130837.2 -0235.3  
3661 9.4 130846.5 -0227.5  
3662 9.1 130954.1 -0213.1  
3663 9.4 130957.6 -0249.2  
3664 9.9 131017.6 -0215.9  
3665 9.5 131031.3 -0246.7  
3666 9.3 131132.0 -0241.0  
3667 9.5 131231.1 -0217.1  
3668 9.8 131242.0 -0256.9

3669 9.4 131251.0 -0213.7  
3670 9.1 131258.7 -0243.9  
3671 8.9 131313.0 -0246.6  
3672 8.8 131319.1 -0235.3  
3673 9.2 131329.1 -0253.5  
3674 9.2 131329.5 -0230.6  
3675 9.8 131417.3 -0252.1  
3676 9.5 131525.5 -0252.5  
3677 9.3 131527.2 -0210.2  
3678 9.4 131606.6 -0257.5

3679 9.6 131607.6 -0247.2  
3680 9.8 131621.9 -0226.8  
3681 10. 131659.6 -0207.5  
3682 9.7 131752.5 -0203.9  
3683 30.0 131832.9 -0237.6  
3684 8.0 131839.4 -0254.1  
3685 10. 132009.5 -0200.8  
3686 30.0 132019.2 -0225.1  
3687 9.7 132027.1 -0261.4  
3688 9.5 132043.0 -0255.0

3689 9.0 132148.8 -0212.6  
3690 9.5 132203.7 -0218.9  
3691 10. 132210.5 -0203.1  
3692 10. 132224.6 -0247.8  
3693 9.4 132254.5 -0228.9  
3694 9.6 132320.4 -0236.0  
3695 7.3 132322.7 -0218.2  
3696 10. 132326.5 -0201.8  
3697 8.9 132330.7 -0245.7  
3698 8.5 132332.9 -0203.9

3699 9.6 132358.5 -0245.5  
3700 9.9 132359.6 -0246.5  
3701 8.7 132441.7 -0220.7  
3702 9.0 132462.4 -0222.5  
3703 8.5 132467.0 -0249.0  
3704 9.5 132528.9 -0233.7  
3705 9.9 132542.7 -0259.1  
3706 9.2 132603.8 -0210.9  
3707 9.4 132610.8 -0250.6  
3708 8.7 132632.8 -0208.0

3709 9.5 132829.6 -0224.5  
3710 9.2 132840.7 -0244.7  
3711 8.7 132850.8 -0211.8  
3712 10. 132905.7 -0254.2  
3713 9.5 132931.8 -0214.1  
3714 6.8 133017.5 -0229.5  
3715 9.4 133057.7 -0216.9  
3716 8.5 133100.6 -0258.0  
3717 9.9 133103.1 -0249.1  
3718 9.1 133136.5 -0229.8

3719 9.8 133342.6 -0222.1  
3720 9.4 133414.1 -0229.0  
3721 9.5 133421.6 -0211.1  
3722 9.4 133547.2 -0259.9  
3723 8.5 133609.4 -0247.5  
3724 9.4 133623.5 -0231.4  
3725 10. 133629.5 -0243.4  
3726 8.7 133714.7 -0248.4  
3727 8.2 133739.9 -0234.9  
3728 9.1 133803.2 -0217.2

3729 9.4 133824.6 -0247.5  
3730 9.5 133835.5 -0206.4  
3731 9.1 133858.3 -0206.8  
3732 8.9 134025.5 -0226.4  
3733 9.7 134044.4 -0205.5  
3734 10. 134044.1 -0250.0  
3735 9.5 134045.9 -0253.8  
3736 9.6 134049.0 -0247.6  
3737 7.5 134109.4 -0206.6  
3738 8.9 134109.9 -0250.1

3739 9.0 134117.6 -0227.2  
3740 9.5 134143.7 -0217.3  
3741 9.7 134202.6 -0211.3  
3742 9.3 134204.7 -0219.5  
3743 9.7 134211.3 -0249.6  
3744 9.4 134222.8 -0200.4  
3745 9.6 134323.3 -0241.9  
3746 9.5 134336.0 -0211.3  
3747 8.4 134337.3 -0204.6  
3748 9.3 134337.9 -0236.3

3749 9.3 134420.9 -0257.5  
3750 9.4 134424.2 -0213.3  
3751 9.2 134432.0 -0245.8  
3752 7.3 134541.2 -0249.4  
3753 9.4 134558.0 -0242.9  
3754 9.8 134600.1 -0251.7  
3755 10. 134632.5 -0236.1  
3756 9.5 134639.0 -0238.1  
3757 10. 134645.2 -0243.3  
3758 8.5 134651.1 -0217.2

3759 9.9 134654.4 -0224.0  
3760 9.5 134716.3 -0236.4  
3761 6.5 134829.5 -0256.9  
3762 10. 134852.6 -0257.3  
3763 9.0 134914.9 -0230.8  
3764 10. 134921.5 -0247.1  
3765 9.0 135009.8 -0204.7  
3766 9.4 135121.2 -0212.8  
3767 9.4 135207.6 -0218.6  
3768 6.4 135218.4 -0250.4

3769 9.5 135309.3 -0219.7  
3770 9.7 135334.5 -0246.1  
3771 10. 135431.8 -0250.2  
3772 9.0 135506.0 -0224.9  
3773 10. 135509.8 -0247.4  
3774 9.8 135523.9 -0233.6  
3775 10. 135613.5 -0207.5  
3776 9.6 135616.7 -0206.4  
3777 9.0 135627.1 -0249.7  
3778 9.6 135654.8 -0246.0

3779 9.0 135656.5 -0221.7  
3780 9.5 135730.0 -0218.9  
3781 9.5 135827.4 -0232.9  
3782 9.7 135855.8 -0241.6  
3783 9.2 135858.0 -0207.2  
3784 10. 140012.9 -0211.6  
3785 9.7 140015.0 -0234.3  
3786 9.4 140031.4 -0211.2  
3787 9.5 140032.6 -0252.0  
3788 9.2 140044.0 -0208.7

3789 8.4 140051.1 -0250.9  
3790 8.9 140053.5 -0214.7  
3791 10. 140056.4 -0219.0  
3792 9.5 140102.3 -0248.1  
3793 9.1 140122.4 -0254.5  
3794 9.5 140128.1 -0207.8  
3795 9.4 140138.4 -0232.6  
3796 10. 140147.9 -0256.1  
3797 8.9 140151.3 -0222.5  
3798 9.5 140212.8 -0241.5

3799 9.0 140321.8 -0225.1  
3800 8.0 140348.4 -0238.7  
3801 9.0 140415.0 -0211.4  
3802 8.0 140501.3 -0217.0  
3803 9.9 140506.3 -0258.6  
3804 7.8 140515.5 -0237.1  
3805 9.4 140616.4 -0214.3  
3806 9.1 140617.8 -0219.8  
3807 9.8 140647.4 -0237.0  
3808 10. 140701.0 -0243.4

3809 8.7 140704.0 -0229.0  
3810 8.4 140725.1 -0256.8  
3811 9.0 140745.2 -0246.0  
3812 6.4 140858.9 -0231.2  
3813 9.1 140914.1 -0212.9  
3814 10. 140919.5 -0201.9  
3815 9.8 141003.7 -0250.0  
3816 9.6 141037.9 -0210.4  
3817 9.8 141040.3 -0202.7  
3818 9.4 141123.9 -0209.1

3819 9.8 141125.0 -0239.2  
3820 3.2 141135.2 -0253.0  
3821 4.5 141138.4 -0205.3  
3822 4.6 141138.8 -0219.6  
3823 4.5 141155.0 -0205.3  
3824 5.7 141247.1 -0235.0  
3825 9.3 141337.8 -0220.9  
3826 10. 141407.2 -0220.0  
3827 9.1 141408.1 -0240.6  
3828 9.7 141412.0 -0227.5

3829 9.3 141414.6 -0236.8  
3830 9.9 141422.6 -0228.1  
3831 9.8 141424.5 -0237.2  
3832 9.5 141431.6 -0240.5  
3833 10. 141453.0 -0255.2  
3834 9.7 141503.6 -0214.5  
3835 9.0 141506.6 -0231.0  
3836 9.2 141534.9 -0212.4  
3837 10. 141607.4 -0207.3  
3838 9.4 141618.8 -0213.1

3839 9.7 141647.0 -0240.0  
3840 9.5 141653.6 -0232.0  
3841 9.3 141727.9 -0221.6  
3842 9.8 141752.5 -0241.5  
3843 9.1 141814.3 -0220.8  
3844 9.5 141837.9 -0200.4  
3845 9.0 141941.5 -0244.7  
3846 8.8 141944.2 -0202.3  
3847 9.5 142003.0 -0206.9  
3848 9.2 142017.3 -0225.8

3849 7.3 142033.0 -0221.2  
3850 9.6 142109.2 -0250.0  
3851 9.8 142119.7 -0256.3  
3852 9.5 142135.3 -0255.8  
3853 8.8 142236.9 -0254.0  
3854 9.6 142255.5 -0252.4  
3855 8.0 142311.1 -0227.4  
3856 8.9 142327.1 -0256.5  
3857 9.3 142409.1 -0253.5  
3858 9.4 142458.6 -0208.7

3859 9.0 142550.1 -0240.0  
3860 9.0 142616.6 -0200.1  
3861 9.1 142639.1 -0222.4  
3862 8.5 142701.9 -0231.8  
3863 9.3 142823.7 -0249.3  
3864 10. 142938.4 -0259.6  
3865 9.6 142940.4 -0253.1  
3866 9.7 142953.2 -0230.0  
3867 9.5 143009.6 -0228.3  
3868 8.5 143014.9 -0244.5

3869 9.4 143020.0 -0215.5  
3870 9.7 143033.2 -0213.7  
3871 9.8 143052.0 -0209.4  
3872 9.0 143053.9 -0214.0  
3873 7.0 143056.8 -0258.8  
3874 8.0 143100.6 -0230.9  
3875 9.6 143141.5 -0210.2  
3876 9.6 143147.6 -0243.1  
3877 9.5 143151.6 -0229.2  
3878 9.5 143229.6 -0220.7

3879 9.2 143232.0 -0209.8  
3880 9.5 143304.9 -0223.5  
3881 9.7 143317.7 -0241.3  
3882 8.2 143329.1 -0213.6  
3883 9.1 143334.4 -0247.2  
3884 9.5 143352.6 -0229.2  
3885 9.5 143402.3 -0255.3  
3886 9.0 143426.4 -0254.1  
3887 8.7 143542.6 -0220.3  
3888 9.0 143629.5 -0250.8

3889 9.3 143643.6 -0231.5  
3890 7.4 143658.7 -0244.9  
3891 8.5 143720.0 -0226.8  
3892 9.4 143757.6 -0257.2  
3893 9.8 143823.6 -0259.4  
3894 8.9 143911.0 -0219.3  
3895 9.5 143944.0 -0224.1  
3896 9.4 143945.3 -0225.5  
3897 9.1 144015.5 -0246.3  
3898 9.7 144029.3 -0225.9

-02 3988 15h15m

3899 9.8 144030.3 -0231.3  
3900 9.5 144059.0 -0217.2  
3901 9.3 144131.5 -0240.5  
3902 10. 144134.7 -0253.6  
3903 9.1 144238.5 -0243.3  
3904 9.5 144314.9 -0241.0  
3905 9.5 144318.8 -0232.8  
3906 10. 144337.6 -0247.0  
3907 8.3 144445.2 -0255.1  
3908 9.3 144517.5 -0243.9

3909 9.3 144551.1 -0206.7  
3910 9.1 144612.2 -0244.9  
3911 9.5 144639.0 -0215.2  
3912 9.0 144655.0 -0228.7  
3913 9.2 144740.0 -0209.4  
3914 9.3 144759.5 -0235.2  
3915 9.3 144852.0 -0231.8  
3916 9.4 144923.5 -0248.4  
3917 9.8 144936.6 -0245.3  
3918 10. 144909.1 -0204.7

3919 9.5 145032.2 -0242.4  
3920 9.8 145109.5 -0203.1  
3921 9.0 145110.6 -0218.0  
3922 9.4 145111.2 -0257.6  
3923 8.3 145158.1 -0233.4  
3924 10. 145201.7 -0240.2  
3925 9.5 145228.1 -0202.4  
3926 9.0 145313.1 -0222.7  
3927 9.0 145330.6 -0217.5  
3928 5.0 145347.3 -0210.0

3929 9.3 145353.5 -0238.4  
3930 6.5 145403.0 -0235.0  
3931 8.6 145423.0 -0227.4  
3932 9.8 145448.4 -0205.1  
3933 7.0 145513.2 -0227.3  
3934 9.1 145518.5 -0217.4  
3935 8.6 145519.1 -0201.5  
3936 8.9 145530.7 -0222.8  
3937 8.5 145556.1 -0236.2  
3938 9.5 145623.0 -0246.8

3939 9.6 145628.8 -0217.1  
3940 9.2 145718.9 -0254.1  
3941 9.2 145750.5 -0237.7  
3942 9.8 145820.2 -0207.1  
3943 9.4 145900.2 -0203.3  
3944 9.1 145913.9 -0236.3  
3945 9.6 145937.8 -0211.6  
3946 8.8 145902.3 -0200.7  
3947 9.4 150004.9 -0252.6  
3948 9.9 150019.8 -0259.4

3949 9.0 150030.0 -0214.7  
3950 8.3 150139.4 -0201.4  
3951 9.7 150153.5 -0244.7  
3952 9.8 150218.7 -0214.1  
3953 9.4 150222.2 -0204.0  
3954 9.7 150409.0 -0229.4  
3955 9.4 150410.6 -0219.7  
3956 9.8 150412.7 -0241.6  
3957 9.4 150432.1 -0232.2  
3958 9.5 150620.6 -0207.1

3959 9.8 150648.6 -0231.4  
3960 6.7 150655.7 -0249.3  
3961 9.9 150720.4 -0247.5  
3962 9.3 150739.2 -0220.6  
3963 9.0 150744.7 -0211.5  
3964 9.8 150756.9 -0235.0  
3965 9.6 150817.8 -0225.7  
3966 10. 150821.7 -0242.8  
3967 9.5 150849.4 -0231.0  
3968 9.5 150922.0 -0227.9

3969 9.3 151010.1 -0242.5  
3970 9.5 151011.4 -0200.2  
3971 9.2 151029.7 -0254.2  
3972 8.0 151106.7 -0216.1  
3973 9.8 151151.3 -0219.7  
3974 9.1 151221.1 -0244.3  
3975 9.5 151236.1 -0242.7  
3976 9.8 151237.3 -0222.1  
3977 8.7 151305.3 -0259.4  
3978 9.5 151315.8 -0222.4

3979 9.8 151318.7 -0214.6  
3980 9.0 151346.4 -0233.3  
3981 9.8 151428.9 -0236.7  
3982 9.5 151433.1 -0204.2  
3983 9.5 151500.9 -0257.4  
3984 9.4 151528.9 -0255.6  
3985 8.6 151537.1 -0244.9  
3986 9.5 151539.2 -0214.9  
3987 9.1 151542.1 -0246.8  
3988 9.5 151546.0 -0215.5



-02 3989 15h16m

3989 10. 151626.0 -0246.0  
3990 9.8 151727.1 -0253.6  
3991 9.8 151809.9 -0211.5  
3992 8.2 151835.3 -0227.7  
3993 9.4 151852.9 -0223.4  
3994 9.6 151928.8 -0203.8  
3995 8.1 151946.9 -0231.3  
3996 9.7 151953.0 -0254.3  
3997 9.8 151953.2 -0231.8  
3998 9.3 152009.9 -0214.6

3999 10. 152017.9 -0216.3  
4000 9.0 152044.6 -0238.9  
4001 9.0 152106.7 -0203.6  
4002 9.8 152118.4 -0221.0  
4003 9.6 152154.2 -0224.8  
4004 9.1 152216.4 -0219.6  
4005 9.3 152254.5 -0254.8  
4006 9.2 152302.3 -0229.1  
4007 9.4 152318.1 -0216.8  
4008 9.0 152358.7 -0214.0

4009 8.0 152418.4 -0201.1  
4010 9.5 152420.7 -0238.3  
4011 9.2 152421.3 -0209.5  
4012 9.0 152506.8 -0258.5  
4013 9.4 152605.5 -0249.6  
4014 7.9 152605.5 -0248.8  
4015 8.0 152645.2 -0213.9  
4016 7.8 152658.7 -0227.3  
4017 9.7 152728.7 -0241.6  
4018 8.4 152731.4 -0250.1

4019 9.5 152738.1 -0205.1  
4020 8.8 152838.4 -0217.8  
4021 8.3 152841.0 -0202.2  
4022 9.5 152849.5 -0258.7  
4023 9.0 152855.8 -0254.6  
4024 9.4 152901.5 -0202.6  
4025 9.0 152910.7 -0220.6  
4026 9.2 152921.5 -0213.0  
4027 9.3 152952.7 -0224.2  
4028 9.8 153000.8 -0234.5

4029 9.3 153028.7 -0221.3  
4030 8.0 153116.7 -0220.9  
4031 9.1 153248.2 -0203.3  
4032 9.8 153259.8 -0213.8  
4033 9.0 153303.3 -0243.8  
4034 7.9 153352.9 -0209.9  
4035 9.1 153356.2 -0201.4  
4036 9.5 153411.2 -0246.9  
4037 9.2 153518.4 -0259.6  
4038 9.4 153538.3 -0250.1

4039 9.5 153541.6 -0220.0  
4040 8.5 153646.7 -0232.8  
4041 9.4 153721.5 -0204.4  
4042 9.8 153851.9 -0229.7  
4043 9.5 153909.8 -0257.7  
4044 8.2 153943.9 -0209.7  
4045 9.8 154014.0 -0207.8  
4046 9.4 154020.0 -0209.3  
4047 9.0 154050.9 -0230.8  
4048 9.5 154051.1 -0214.4

4049 9.8 154107.7 -0244.0  
4050 9.5 154124.0 -0212.6  
4051 8.2 154137.9 -0247.1  
4052 3.8 154202.9 -0258.8  
4053 9.4 154230.4 -0225.1  
4054 9.0 154231.3 -0244.2  
4055 8.5 154249.9 -0236.5  
4056 9.7 154254.5 -0221.0  
4057 9.6 154321.2 -0246.5  
4058 5.6 154342.8 -0239.0

4059 10. 154353.7 -0210.5  
4060 9.2 154357.1 -0209.6  
4061 9.4 154420.6 -0230.7  
4062 10. 154546.5 -0229.9  
4063 9.8 154549.1 -0217.0  
4064 7.5 154549.1 -0235.4  
4065 9.6 154554.0 -0207.5  
4066 9.8 154739.5 -0216.8  
4067 9.5 154810.2 -0205.0  
4068 9.8 154814.9 -0252.8

4069 9.5 154819.0 -0254.9  
4070 9.7 154839.4 -0254.5  
4071 9.4 154845.2 -0255.2  
4072 9.8 154845.8 -0208.5  
4073 9.5 154850.2 -0234.7  
4074 9.1 154902.7 -0258.0  
4075 9.3 154913.7 -0245.0  
4076 9.8 154924.0 -0204.3  
4077 8.3 154929.2 -0233.9  
4078 9.8 154948.0 -0252.7

4079 9.6 155011.1 -0213.5  
4080 8.7 155026.3 -0245.4  
4081 9.8 155105.2 -0245.4  
4082 9.8 155111.6 -0222.0  
4083 9.8 155114.5 -0202.8  
4084 9.2 155115.4 -0235.5  
4085 7.9 155120.6 -0239.6  
4086 9.4 155154.9 -0224.8  
4087 9.7 155202.8 -0212.6  
4088 9.8 155215.5 -0203.7

4089 9.3 155307.7 -0210.0  
4090 9.2 155346.8 -0244.9  
4091 10. 155346.8 -0240.6  
4092 9.1 155422.7 -0246.3  
4093 8.8 155431.9 -0256.1  
4094 7.9 155515.9 -0203.4  
4095 9.5 155532.1 -0251.7  
4096 9.3 155536.3 -0243.6  
4097 9.9 155536.9 -0257.7  
4098 9.2 155548.3 -0257.9

4099 9.5 155553.6 -0226.2  
4100 9.4 155618.0 -0247.4  
4101 9.8 155637.0 -0218.8  
4102 9.4 155642.3 -0249.2  
4103 9.1 155709.3 -0248.9  
4104 9.8 155722.5 -0216.4  
4105 7.7 155746.7 -0256.8  
4106 9.5 155828.0 -0259.1  
4107 9.6 155842.3 -0224.7  
4108 8.4 155848.6 -0255.6

4109 9.0 155851.4 -0209.7  
4110 9.0 155858.1 -0221.4  
4111 8.4 155923.9 -0251.3  
4112 9.1 155938.6 -0227.7  
4113 8.0 160003.9 -0215.2  
4114 9.5 160039.2 -0257.2  
4115 9.9 160046.0 -0259.6  
4116 8.8 160111.0 -0226.5  
4117 9.8 160129.3 -0224.1  
4118 9.8 160156.9 -0229.3

4119 9.5 160245.0 -0202.0  
4120 9.1 160246.9 -0202.4  
4121 9.7 160251.7 -0248.6  
4122 9.8 160306.7 -0257.4  
4123 9.8 160357.5 -0220.8  
4124 9.5 160406.0 -0222.6  
4125 9.1 160429.1 -0228.0  
4126 9.5 160445.0 -0249.1  
4127 9.8 160500.1 -0247.5  
4128 9.7 160506.2 -0213.5

4129 9.8 160523.0 -0212.8  
4130 8.9 160601.6 -0232.9  
4131 9.4 160607.0 -0205.0  
4132 9.3 160633.1 -0202.0  
4133 9.8 160634.1 -0235.7  
4134 9.0 160640.4 -0243.0  
4135 9.6 160644.4 -0259.8  
4136 9.8 160646.7 -0242.8  
4137 9.8 160656.1 -0225.4  
4138 9.8 160701.2 -0249.7

4139 9.3 160715.1 -0234.5  
4140 9.8 160715.9 -0212.8  
4141 9.6 160716.4 -0245.6  
4142 9.4 160725.2 -0258.2  
4143 9.6 160725.2 -0231.9  
4144 8.5 160728.7 -0228.5  
4145 9.1 160751.9 -0204.4  
4146 9.6 160804.5 -0201.5  
4147 9.8 160840.4 -0232.8  
4148 9.8 160920.5 -0223.1

4149 9.3 160945.6 -0256.4  
4150 9.8 160948.5 -0214.3  
4151 9.8 160949.3 -0233.5  
4152 9.8 160954.6 -0251.3  
4153 9.3 160956.7 -0259.2  
4154 9.9 161019.1 -0219.6  
4155 9.8 161128.2 -0209.8  
4156 9.1 161136.0 -0220.1  
4157 9.8 161201.0 -0221.5  
4158 9.3 161202.7 -0217.3

4159 9.5 161202.8 -0231.5  
4160 8.3 161224.9 -0240.5  
4161 9.5 161230.0 -0215.2  
4162 9.5 161244.1 -0234.9  
4163 9.4 161311.6 -0258.9  
4164 9.4 161334.8 -0219.2  
4165 9.5 161335.6 -0240.6  
4166 9.6 161406.6 -0252.8  
4167 10. 161419.0 -0222.8  
4168 9.8 161426.2 -0238.9

4169 9.4 161436.6 -0242.8  
4170 9.8 161503.4 -0204.1  
4171 9.4 161504.9 -0249.5  
4172 9.8 161518.5 -0212.8  
4173 10. 161535.8 -0258.1  
4174 9.8 161558.5 -0219.3  
4175 9.5 161614.4 -0207.0  
4176 8.8 161616.7 -0237.6  
4177 9.2 161655.4 -0207.9  
4178 9.5 161702.4 -0206.3

4179 7.0 161705.7 -0208.6  
4180 8.0 161720.1 -0207.7  
4181 9.2 161720.3 -0201.0  
4182 9.2 161729.8 -0212.9  
4183 9.3 161746.8 -0212.4  
4184 9.2 161804.6 -0236.1  
4185 9.6 161807.4 -0258.5  
4186 9.5 161820.0 -0218.9  
4187 9.1 161916.9 -0206.0  
4188 9.5 161919.4 -0233.9

4189 8.1 161924.9 -0239.9  
4190 8.5 161927.5 -0233.9  
4191 9.8 161945.2 -0259.3  
4192 9.9 161956.2 -0246.0  
4193 9.1 161957.6 -0230.6  
4194 9.5 162010.0 -0220.0  
4195 9.8 162106.1 -0256.9  
4196 9.8 162107.1 -0249.2  
4197 9.5 162206.9 -0235.4  
4198 9.9 162211.3 -0216.4

4199 8.5 162218.8 -0223.5  
4200 9.6 162224.4 -0238.7  
4201 9.1 162318.2 -0211.7  
4202 9.0 162405.5 -0242.7  
4203 8.8 162453.2 -0222.9  
4204 9.3 162501.6 -0213.5  
4205 9.5 162502.3 -0203.7  
4206 9.7 162511.4 -0231.2  
4207 9.3 162609.3 -0219.3  
4208 9.5 162703.4 -0200.1

4209 9.8 162723.0 -0256.7  
4210 9.2 162739.1 -0241.3  
4211 5.5 162845.5 -0200.7  
4212 9.5 162900.5 -0237.5  
4213 8.5 162927.0 -0221.9  
4214 9.0 162927.8 -0221.0  
4215 9.8 162939.6 -0241.1  
4216 9.0 162942.0 -0214.8  
4217 9.1 162946.1 -0245.0  
4218 9.5 163040.5 -0230.6

4219 8.0 163046.5 -0208.1  
4220 9.2 163049.5 -0258.2  
4221 9.2 163050.7 -0247.7  
4222 9.6 163058.5 -0224.8  
4223 9.2 163111.0 -0222.5  
4224 9.8 163125.0 -0211.7  
4225 9.3 163130.7 -0231.8  
4226 7.3 163149.1 -0249.0  
4227 8.5 163216.5 -0234.1  
4228 9.8 163242.5 -0203.2

4229 9.3 163317.4 -0246.8  
4230 7.0 163334.5 -0233.6  
4231 9.0 163406.5 -0218.7  
4232 9.5 163409.9 -0203.1  
4233 9.5 163536.0 -0217.4  
4234 8.5 163616.0 -0226.8  
4235 8.0 163623.2 -0221.3  
4236 9.6 163629.0 -0202.9  
4237 9.6 163646.0 -0236.0  
4238 9.6 163648.5 -0207.1

4239 9.3 163655.1 -0251.4  
4240 9.3 163705.5 -0212.0  
4241 9.5 163724.7 -0240.0  
4242 9.9 163736.4 -0248.9  
4243 9.8 163746.3 -0234.5  
4244 10. 163804.3 -0248.8  
4245 9.5 163813.5 -0209.4  
4246 7.8 163903.1 -0255.6  
4247 9.4 163925.8 -0213.7  
4248 8.7 163929.5 -0250.1

4249 9.4 164101.0 -0259.8  
4250 9.8 164110.5 -0230.2  
4251 9.5 164133.2 -0225.6  
4252 9.2 164137.8 -0259.9  
4253 9.8 164149.6 -0204.5  
4254 8.5 164154.2 -0228.8  
4255 9.7 164208.2 -0227.2  
4256 9.7 164213.8 -0255.3  
4257 9.7 164228.5 -0256.3  
4258 9.5 164234.1 -0255.5

-02 4348 17h16m

4259 6.2 164248.5 -0223.5  
4260 9.7 164328.2 -0218.1  
4261 9.7 164336.1 -0241.5  
4262 9.5 164355.4 -0201.6  
4263 8.8 164409.0 -0223.2  
4264 9.0 164414.5 -0231.7  
4265 7.0 164433.5 -0232.6  
4266 9.7 164458.3 -0246.2  
4267 9.6 164502.7 -0246.0  
4268 9.5 164510.0 -0226.4

4269 9.5 164531.5 -0225.3  
4270 10. 164543.7 -0241.0  
4271 9.9 164609.3 -0259.9  
4272 9.3 164631.1 -0254.4  
4273 9.5 164632.6 -0234.5  
4274 9.6 164738.1 -0229.3  
4275 8.1 164802.0 -0213.2  
4276 9.5 164812.1 -0229.4  
4277 9.4 164820.0 -0256.7  
4278 9.3 164831.9 -0255.9

4279 9.5 164859.2 -0229.7  
4280 8.8 164915.6 -0212.4  
4281 8.4 164933.7 -0247.3  
4282 9.1 164955.5 -0241.0  
4283 7.0 165003.3 -0247.1  
4284 9.1 165107.7 -0229.1  
4285 8.5 165117.8 -0246.4  
4286 9.4 165202.0 -0256.8  
4287 9.5 165206.8 -0248.6  
4288 9.6 165257.5 -0246.4

4289 9.7 165341.2 -0235.0  
4290 9.8 165410.0 -0250.8  
4291 8.8 165431.7 -0205.0  
4292 9.4 165403.2 -0247.2  
4293 9.5 165611.2 -0239.5  
4294 7.8 165628.1 -0222.3  
4295 9.1 165648.2 -0230.3  
4296 9.5 165650.2 -0221.1  
4297 9.5 165659.1 -0210.3  
4298 9.5 165659.6 -0214.5

4299 9.0 165736.7 -0234.9  
4300 9.3 165852.7 -0218.1  
4301 8.5 165857.2 -0223.2  
4302 8.5 165917.2 -0204.7  
4303 9.4 165921.2 -0256.1  
4304 7.3 165938.9 -0240.1  
4305 9.1 170026.7 -0229.0  
4306 9.5 170157.8 -0224.9  
4307 9.7 170200.0 -0227.9  
4308 9.4 170234.5 -0240.9

4309 9.5 170257.6 -0250.3  
4310 9.5 170331.2 -0209.4  
4311 9.4 170351.9 -0257.5  
4312 9.3 170446.4 -0244.8  
4313 8.4 170518.7 -0205.4  
4314 8.5 170603.2 -0230.8  
4315 9.8 170606.3 -0253.3  
4316 9.8 170616.2 -0233.2  
4317 9.6 170621.8 -0235.6  
4318 9.3 170650.7 -0201.9

4319 9.5 170654.3 -0257.0  
4320 9.8 170702.5 -0230.9  
4321 7.5 170724.7 -0219.7  
4322 9.8 170748.2 -0222.2  
4323 9.2 170902.7 -0207.1  
4324 9.5 170906.8 -0249.6  
4325 9.7 170908.2 -0253.1  
4326 8.3 170921.4 -0242.8  
4327 9.4 170948.7 -0232.4  
4328 9.3 171016.5 -0218.3

4329 9.3 171113.7 -0229.2  
4330 6.1 171117.2 -0238.7  
4331 9.5 171140.2 -0226.5  
4332 7.0 171147.2 -0235.3  
4333 9.3 171147.5 -0211.9  
4334 9.7 171158.9 -0244.2  
4335 9.8 171213.2 -0217.6  
4336 9.0 171226.2 -0222.8  
4337 9.4 171253.7 -0235.4  
4338 8.3 171259.9 -0216.2

4339 9.7 171320.2 -0243.4  
4340 9.6 171412.7 -0255.5  
4341 9.2 171433.2 -0212.2  
4342 9.3 171501.7 -0211.3  
4343 6.3 171517.3 -0214.0  
4344 9.2 171526.7 -0220.3  
4345 9.2 171546.2 -0228.9  
4346 7.4 171552.4 -0258.8  
4347 9.1 171556.4 -0233.0  
4348 8.5 171626.0 -0232.5



-02 4349 17h17m

4349 9.8 171739.1 -0238.8  
4350 9.8 171746.2 -0214.0  
4351 9.4 171801.7 -0232.7  
4352 9.4 171856.3 -0239.5  
4353 9.6 171905.7 -0243.4  
4354 9.5 171915.7 -0216.2  
4355 9.8 171921.9 -0241.0  
4356 9.3 171938.1 -0254.2  
4357 8.1 171943.3 -0215.6  
4358 9.4 171955.0 -0224.4  
  
4359 9.4 171959.9 -0203.0  
4360 9.6 172000.0 -0247.9  
4361 9.2 172017.1 -0256.6  
4362 9.8 172037.9 -0239.8  
4363 9.8 172056.0 -0251.5  
4364 9.4 172057.2 -0233.1  
4365 9.8 172104.7 -0234.2  
4366 9.5 172121.7 -0225.4  
4367 9.5 172123.1 -0215.6  
4368 9.1 172138.7 -0200.3  
  
4369 9.1 172147.0 -0240.0  
4370 9.5 172150.7 -0220.0  
4371 9.1 172206.0 -0258.3  
4372 9.6 172212.6 -0251.7  
4373 9.1 172223.7 -0202.3  
4374 9.0 172258.2 -0206.2  
4375 8.5 172305.6 -0234.6  
4376 9.1 172324.0 -0246.4  
4377 6.8 172326.7 -0242.7  
4378 9.2 172336.2 -0223.0  
  
4379 9.3 172341.7 -0242.6  
4380 9.1 172346.2 -0235.9  
4381 8.0 172354.2 -0224.9  
4382 9.4 172355.5 -0250.0  
4383 9.7 172413.3 -0244.3  
4384 9.5 172416.7 -0254.2  
4385 9.8 172427.2 -0231.6  
4386 10. 172422.2 -0212.0  
4387 9.1 172452.1 -0239.2  
4388 9.3 172455.2 -0225.8  
  
4389 9.3 172453.7 -0221.9  
4390 9.1 172533.2 -0244.2  
4391 9.2 172531.0 -0239.5  
4392 9.5 172551.0 -0239.4  
4393 9.5 172557.2 -0233.6  
4394 9.5 172558.2 -0232.2  
4395 9.3 172607.1 -0239.4  
4396 9.8 172615.7 -0214.0  
4397 9.5 172619.0 -0257.2  
4398 7.0 172632.7 -0256.8  
  
4399 9.8 172640.2 -0212.6  
4400 9.4 172648.5 -0228.1  
4401 9.4 172649.3 -0230.6  
4402 7.5 172756.6 -0247.4  
4403 9.7 172828.3 -0257.0  
4404 9.4 172833.3 -0251.4  
4405 9.0 172850.0 -0216.3  
4406 9.8 172853.7 -0224.3  
4407 9.5 172900.6 -0223.5  
4408 8.4 172902.7 -0205.7  
  
4409 9.1 172913.2 -0223.6  
4410 8.5 172924.8 -0240.5  
4411 9.7 172933.0 -0221.4  
4412 9.4 172942.7 -0237.7  
4413 7.3 172944.2 -0246.9  
4414 8.6 172950.3 -0255.0  
4415 9.8 173000.2 -0218.3  
4416 9.8 173012.3 -0223.4  
4417 9.8 173037.2 -0233.7  
4418 9.3 173042.0 -0259.0  
  
4419 9.8 173121.1 -0238.6  
4420 9.5 173135.3 -0243.5  
4421 9.6 173152.0 -0252.3  
4422 9.0 173158.7 -0253.4  
4423 9.5 173213.3 -0233.4  
4424 9.5 173216.5 -0241.1  
4425 6.2 173239.6 -0204.1  
4426 9.2 173253.7 -0209.2  
4427 8.0 173256.9 -0246.7  
4428 9.5 173300.7 -0217.2  
  
4429 9.3 173329.8 -0255.1  
4430 9.4 173406.1 -0256.9  
4431 9.2 173427.2 -0221.9  
4432 9.6 173431.2 -0214.1  
4433 7.8 173456.2 -0220.6  
4434 9.7 173507.5 -0249.9  
4435 9.1 173516.4 -0203.9  
4436 7.8 173538.2 -0213.3  
4437 8.9 173547.6 -0254.5  
4438 9.7 173601.9 -0247.8

4439 9.0 173653.7 -0200.9  
4440 9.8 173702.0 -0213.6  
4441 8.9 173716.6 -0253.8  
4442 9.4 173738.2 -0220.6  
4443 7.3 173739.3 -0241.4  
4444 9.3 173747.9 -0257.0  
4445 9.3 173803.7 -0214.9  
4446 7.5 173857.2 -0247.7  
4447 9.3 173902.2 -0252.6  
4448 9.0 173903.7 -0213.3  
  
4449 9.1 173909.9 -0249.4  
4450 9.4 173920.7 -0227.7  
4451 9.5 173922.7 -0215.8  
4452 9.8 173957.7 -0207.6  
4453 9.7 174010.0 -0220.3  
4454 9.8 174010.2 -0218.7  
4455 9.9 174023.6 -0241.0  
4456 9.5 174031.7 -0202.2  
4457 9.7 174100.2 -0247.7  
4458 8.0 174103.7 -0208.5  
  
4459 9.8 174112.2 -0208.3  
4460 9.5 174114.4 -0212.6  
4461 8.5 174200.6 -0210.5  
4462 9.5 174201.1 -0236.2  
4463 9.8 174203.3 -0240.7  
4464 10. 174217.2 -0224.4  
4465 9.0 174230.7 -0229.3  
4466 10. 174239.2 -0222.9  
4467 9.8 174306.2 -0201.2  
4468 9.2 174308.2 -0226.5  
  
4469 9.0 174324.9 -0248.8  
4470 9.8 174341.2 -0239.0  
4471 9.7 174347.4 -0254.2  
4472 9.3 174352.2 -0215.3  
4473 9.5 174356.7 -0216.0  
4474 9.8 174407.9 -0225.3  
4475 9.7 174407.9 -0200.8  
4476 9.1 174429.9 -0257.8  
4477 8.5 174443.0 -0259.0  
4478 9.8 174451.2 -0222.7  
  
4479 9.4 174453.6 -0248.5  
4480 8.0 174526.2 -0212.7  
4481 8.7 174530.0 -0254.5  
4482 7.5 174530.0 -0232.1  
4483 9.5 174535.2 -0230.2  
4484 9.8 174547.0 -0240.5  
4485 8.3 174547.6 -0202.3  
4486 9.0 174550.7 -0236.0  
4487 8.8 174610.9 -0244.6  
4488 9.5 174622.2 -0214.3  
  
4489 9.4 174630.7 -0221.2  
4490 9.8 174640.2 -0231.3  
4491 9.8 174646.9 -0258.1  
4492 9.5 174705.7 -0203.8  
4493 9.6 174708.1 -0216.1  
4494 9.5 174717.7 -0202.7  
4495 9.6 174718.7 -0255.1  
4496 9.8 174728.2 -0234.4  
4497 9.4 174743.6 -0238.4  
4498 9.8 174807.0 -0226.9  
  
4499 9.8 174813.0 -0234.5  
4500 8.5 174818.2 -0244.8  
4501 9.1 174819.5 -0212.8  
4502 9.8 174846.2 -0208.6  
4503 9.5 174851.2 -0243.1  
4504 8.2 174853.2 -0246.5  
4505 9.0 174857.6 -0212.4  
4506 9.8 174923.7 -0227.1  
4507 9.7 174939.2 -0201.0  
4508 9.5 175000.9 -0240.5  
  
4509 8.9 175007.5 -0239.9  
4510 9.0 175022.7 -0250.0  
4511 8.3 175038.2 -0207.7  
4512 9.2 175039.0 -0213.6  
4513 9.4 175043.2 -0214.9  
4514 9.4 175043.2 -0259.5  
4515 10. 175109.8 -0248.2  
4516 9.9 175111.8 -0243.5  
4517 10. 175122.1 -0245.1  
4518 8.9 175127.2 -0240.3  
  
4519 9.2 175145.0 -0247.1  
4520 9.8 175152.2 -0221.2  
4521 9.4 175153.4 -0226.6  
4522 9.8 175200.7 -0219.5  
4523 8.9 175208.2 -0235.6  
4524 9.5 175220.7 -0235.3  
4525 8.5 175224.1 -0226.8  
4526 9.8 175239.8 -0206.2  
4527 9.4 175256.9 -0205.4  
4528 8.0 175300.1 -0217.7

4529 7.3 175323.4 -0233.5  
4530 8.7 175326.2 -0201.3  
4531 9.5 175353.1 -0215.6  
4532 9.4 175357.7 -0212.7  
4533 9.0 175423.7 -0207.7  
4534 9.1 175504.2 -0236.1  
4535 8.5 175523.7 -0212.8  
4536 9.7 175524.7 -0252.9  
4537 8.5 175524.7 -0236.3  
4538 9.2 175556.9 -0204.8  
  
4539 9.3 175624.5 -0259.6  
4540 9.4 175626.9 -0245.7  
4541 9.8 175633.2 -0212.2  
4542 9.3 175652.2 -0238.1  
4543 9.5 175721.2 -0236.3  
4544 9.1 175742.8 -0227.4  
4545 9.7 175744.2 -0230.3  
4546 9.3 175807.6 -0243.8  
4547 9.1 175820.1 -0227.0  
4548 9.3 175912.2 -0223.8  
  
4549 8.4 175924.7 -0207.8  
4550 9.5 175934.2 -0239.7  
4551 9.0 175938.7 -0203.3  
4552 8.3 175956.7 -0231.4  
4553 9.5 180003.3 -0241.7  
4554 8.6 180022.9 -0232.2  
4555 9.5 180025.2 -0233.9  
4556 9.0 180036.2 -0202.8  
4557 9.9 180041.1 -0243.4  
4558 6.5 180103.3 -0255.4  
  
4559 9.3 180119.6 -0200.2  
4560 9.4 180120.7 -0256.0  
4561 9.8 180202.2 -0220.9  
4562 9.5 180231.7 -0200.3  
4563 9.4 180253.3 -0245.9  
4564 7.9 180306.2 -0259.6  
4565 9.5 180326.7 -0232.8  
4566 7.5 180405.6 -0245.1  
4567 9.5 180422.6 -0240.2  
4568 8.9 180434.1 -0216.9  
  
4569 9.1 180429.2 -0208.7  
4570 9.8 180441.0 -0205.8  
4571 9.8 180527.0 -0256.1  
4572 9.5 180531.7 -0233.2  
4573 9.5 180535.0 -0246.2  
4574 9.8 180605.7 -0210.5  
4575 9.1 180612.3 -0254.5  
4576 9.5 180637.2 -0254.0  
4577 8.4 180652.6 -0239.7  
4578 7.8 180702.1 -0238.2  
  
4579 8.5 180713.7 -0232.6  
4580 9.2 180749.1 -0215.4  
4581 9.1 180759.7 -0231.0  
4582 9.5 180817.2 -0201.4  
4583 9.5 180934.6 -0208.4  
4584 9.6 180938.2 -0222.4  
4585 9.7 180942.3 -0230.4  
4586 9.3 181001.3 -0251.1  
4587 8.8 181009.6 -0201.6  
4588 8.2 181029.6 -0205.2  
  
4589 9.0 181047.9 -0240.7  
4590 9.3 181059.8 -0250.5  
4591 8.5 181101.8 -0238.8  
4592 9.0 181122.3 -0234.5  
4593 9.0 181155.7 -0212.2  
4594 9.2 181202.3 -0229.9  
4595 9.5 181210.5 -0252.3  
4596 8.5 181332.7 -0249.8  
4597 8.2 181336.3 -0225.2  
4598 9.3 181345.1 -0249.3  
  
4599 3.0 181347.9 -0256.1  
4600 9.5 181348.9 -0251.5  
4601 9.3 181402.2 -0206.2  
4602 9.0 181406.8 -0205.2  
4603 9.4 181413.5 -0227.6  
4604 9.5 181413.8 -0245.0  
4605 9.5 181500.1 -0236.9  
4606 8.8 181512.0 -0216.2  
4607 9.4 181515.0 -0206.6  
4608 9.5 181544.4 -0210.1  
  
4609 8.7 181559.5 -0232.0  
4610 9.3 181616.9 -0202.3  
4611 9.1 181623.9 -0205.8  
4612 9.4 181623.9 -0204.7  
4613 7.7 181625.0 -0232.0  
4614 9.4 181706.0 -0217.5  
4615 8.5 181719.2 -0206.1  
4616 10. 181732.1 -0252.6  
4617 9.8 181735.5 -0232.1  
4618 9.5 181735.5 -0210.4

4619 9.8 181807.0 -0234.4  
4620 8.9 181807.7 -0213.3  
4621 9.5 181829.5 -0208.5  
4622 10. 181839.8 -0234.6  
4623 8.9 181846.8 -0258.6  
4624 9.8 181939.0 -0223.2  
4625 9.1 181945.5 -0231.9  
4626 9.6 182006.5 -0230.6  
4627 10. 182023.3 -0244.3  
4628 9.1 182025.5 -0222.5  
  
4629 9.5 182027.0 -0229.4  
4630 9.4 182028.8 -0242.4  
4631 9.6 182031.8 -0257.5  
4632 9.5 182032.3 -0240.1  
4633 9.4 182044.8 -0255.6  
4634 9.6 182047.5 -0227.9  
4635 9.9 182052.1 -0202.9  
4636 9.8 182052.9 -0236.4  
4637 9.0 182131.5 -0227.3  
4638 8.3 182139.9 -0251.8  
  
4639 9.1 182155.8 -0226.0  
4640 9.3 182158.5 -0207.9  
4641 5.8 182208.4 -0204.1  
4642 8.5 182234.2 -0241.3  
4643 9.0 182248.9 -0242.6  
4644 9.4 182301.5 -0216.4  
4645 9.5 182303.4 -0220.7  
4646 9.5 182410.5 -0229.4  
4647 7.5 182411.5 -0230.3  
4648 9.5 182419.4 -0219.1  
  
4649 9.5 182511.8 -0250.2  
4650 8.8 182518.9 -0208.0  
4651 8.6 182523.3 -0202.6  
4652 9.5 182615.9 -0200.2  
4653 8.0 182621.6 -0255.5  
4654 9.6 182627.5 -0234.8  
4655 9.0 182637.4 -0208.9  
4656 9.5 182637.4 -0206.4  
4657 9.3 182646.0 -0235.4  
4658 8.5 182712.1 -0201.3  
  
4659 9.8 182716.0 -0244.8  
4660 9.5 182736.9 -0250.8  
4661 9.0 182807.0 -0225.7  
4662 10. 182821.9 -0226.1  
4663 9.5 182831.2 -0206.7  
4664 8.6 182831.3 -0229.2  
4665 9.8 182842.0 -0213.4  
4666 9.5 182852.4 -0227.5  
4667 8.7 182856.8 -0236.2  
4668 9.0 182904.0 -0217.6  
  
4669 8.9 182905.3 -0203.8  
4670 9.3 182910.0 -0252.8  
4671 9.1 182927.2 -0250.1  
4672 10. 182932.5 -0227.7  
4673 9.2 182937.0 -0229.9  
4674 9.6 182941.1 -0243.3  
4675 9.8 182946.2 -0235.3  
4676 9.5 182946.4 -0246.7  
4677 9.8 183019.5 -0222.7  
4678 7.0 183023.2 -0242.5  
  
4679 9.5 183030.0 -0239.4  
4680 9.1 183042.2 -0243.0  
4681 9.7 183045.5 -0214.4  
4682 9.3 183102.6 -0241.6  
4683 9.0 183103.5 -0209.2  
4684 9.5 183134.3 -0224.0  
4685 9.2 183135.3 -0224.9  
4686 7.5 183141.4 -0204.4  
4687 9.1 183147.2 -0246.1  
4688 9.9 183212.7 -0252.4  
  
4689 9.8 183220.6 -0250.7  
4690 9.1 183226.5 -0210.4  
4691 9.7 183228.4 -0244.9  
4692 10. 183240.1 -0247.5  
4693 9.7 183255.9 -0246.9  
4694 9.0 183259.0 -0223.1  
4695 9.5 183306.8 -0225.9  
4696 9.2 183307.4 -0249.6  
4697 9.5 183338.5 -0231.8  
4698 9.5 183340.0 -0255.6  
  
4699 9.8 183340.6 -0206.6  
4700 9.6 183343.7 -0202.8  
4701 9.0 183344.6 -0236.1  
4702 9.7 183345.9 -0201.1  
4703 9.4 183346.5 -0215.8  
4704 9.8 183357.6 -0247.3  
4705 10. 183422.5 -0219.3  
4706 10. 183424.6 -0232.1  
4707 9.9 183425.1 -0242.3  
4708 9.4 183426.1 -0238.6

-02 4708 18h34m



-02 4709 18h34m

4709 9.9 183427.3 -0244.5  
4710 9.2 183441.4 -0227.7  
4711 9.5 183442.2 -0226.2  
4712 9.2 183444.0 -0212.3  
4713 9.5 183448.0 -0210.5  
4714 9.6 183454.0 -0244.3  
4715 9.5 183505.0 -0216.3  
4716 10. 183509.7 -0241.2  
4717 8.7 183523.9 -0205.8  
4718 9.0 183556.0 -0210.5  
  
4719 9.6 183611.6 -0230.7  
4720 8.0 183624.5 -0212.5  
4721 9.5 183629.1 -0231.4  
4722 9.4 183633.3 -0216.1  
4723 9.5 183644.6 -0224.2  
4724 9.5 183645.0 -0215.9  
4725 9.3 183646.4 -0240.0  
4726 8.5 183648.6 -0237.6  
4727 9.6 183708.4 -0242.1  
4728 9.5 183715.0 -0256.0  
  
4729 9.9 183744.4 -0205.4  
4730 10. 183751.4 -0207.3  
4731 9.9 183812.3 -0226.5  
4732 8.8 183812.6 -0207.3  
4733 9.5 183827.7 -0252.3  
4734 8.8 183832.5 -0210.9  
4735 9.5 183846.4 -0252.7  
4736 9.1 183908.4 -0243.8  
4737 9.1 183916.5 -0209.8  
4738 8.8 183917.3 -0231.5  
  
4739 9.4 183917.4 -0238.4  
4740 9.0 183931.3 -0235.5  
4741 9.4 183932.4 -0208.2  
4742 10. 183940.0 -0208.9  
4743 9.9 183945.6 -0249.1  
4744 9.5 184004.7 -0241.7  
4745 9.2 184009.5 -0209.8  
4746 9.7 184018.0 -0239.2  
4747 9.8 184021.2 -0258.9  
4748 9.3 184033.0 -0215.6  
  
4749 9.0 184049.0 -0228.1  
4750 9.8 184103.4 -0203.6  
4751 8.7 184122.4 -0239.5  
4752 9.4 184153.1 -0230.7  
4753 9.5 184201.0 -0217.9  
4754 9.5 184209.4 -0206.8  
4755 9.8 184247.6 -0256.9  
4756 9.4 184248.2 -0200.8  
4757 8.9 184249.0 -0218.0  
4758 9.0 184255.1 -0235.5  
  
4759 9.3 184306.1 -0253.2  
4760 9.4 184324.1 -0247.9  
4761 8.9 184352.1 -0252.0  
4762 9.0 184406.5 -0208.7  
4763 9.8 184428.1 -0225.8  
4764 9.4 184441.5 -0209.5  
4765 8.7 184454.1 -0250.1  
4766 10. 184455.0 -0232.5  
4767 9.4 184455.1 -0225.8  
4768 8.5 184507.6 -0224.7  
  
4769 9.1 184513.5 -0259.6  
4770 9.8 184524.5 -0208.2  
4771 9.8 184528.7 -0254.5  
4772 9.8 184533.0 -0211.6  
4773 8.8 184539.5 -0236.5  
4774 9.4 184550.4 -0247.7  
4775 9.8 184556.8 -0235.2  
4776 9.8 184557.6 -0225.8  
4777 9.8 184601.5 -0221.2  
4778 9.5 184638.8 -0223.4  
  
4779 9.1 184643.4 -0203.9  
4780 9.2 184710.4 -0244.8  
4781 9.5 184714.4 -0239.6  
4782 8.8 184733.4 -0203.3  
4783 9.8 184749.5 -0237.2  
4784 8.0 184759.6 -0229.1  
4785 9.8 184800.0 -0211.9  
4786 9.8 184828.6 -0248.3  
4787 9.8 184834.0 -0211.6  
4788 9.2 184848.6 -0223.5  
  
4789 9.3 184849.1 -0240.2  
4790 9.5 184850.5 -0246.6  
4791 9.7 184908.9 -0206.2  
4792 9.5 184911.6 -0226.3  
4793 9.8 184919.3 -0235.8  
4794 9.5 184919.5 -0235.8  
4795 9.5 184924.1 -0237.5  
4796 10. 184924.5 -0243.9  
4797 9.7 184924.7 -0252.9  
4798 8. 184926.1 -0248.0

4799 9.4 184936.2 -0216.5  
4800 9.9 184938.3 -0214.3  
4801 9.8 184952.6 -0230.4  
4802 9.3 184956.5 -0235.8  
4803 9.9 185002.8 -0239.9  
4804 8.9 185018.4 -0207.6  
4805 9.7 185026.6 -0235.1  
4806 9.8 185050.1 -0225.5  
4807 9.8 185106.5 -0211.3  
4808 9.8 185112.5 -0228.9  
  
4809 9.2 185117.1 -0253.6  
4810 9.8 185121.8 -0205.7  
4811 9.8 185140.7 -0257.9  
4812 9.8 185141.1 -0239.9  
4813 8.9 185155.9 -0203.5  
4814 9.5 185200.3 -0258.9  
4815 9.1 185207.1 -0247.8  
4816 9.8 185210.4 -0207.1  
4817 9.3 185225.4 -0233.0  
4818 9.8 185241.0 -0225.8  
  
4819 8.6 185251.4 -0239.3  
4820 9.8 185318.6 -0251.6  
4821 9.5 185323.4 -0240.1  
4822 9.8 185325.5 -0221.0  
4823 9.8 185335.4 -0251.5  
4824 9.5 185337.1 -0240.5  
4825 9.5 185402.1 -0244.0  
4826 9.5 185405.9 -0205.4  
4827 9.0 185409.4 -0208.1  
4828 9.5 185437.0 -0210.3  
  
4829 9.8 185439.6 -0228.1  
4830 9.7 185443.2 -0256.7  
4831 9.8 185452.7 -0207.0  
4832 9.5 185500.5 -0228.8  
4833 9.7 185517.5 -0216.8  
4834 9.4 185520.1 -0229.3  
4835 9.3 185543.2 -0244.3  
4836 9.8 185548.0 -0212.3  
4837 9.3 185549.7 -0219.7  
4838 9.5 185610.3 -0229.0  
  
4839 8.3 185618.9 -0203.8  
4840 8.5 185638.0 -0214.1  
4841 9.6 185648.5 -0259.1  
4842 9.8 185709.6 -0224.0  
4843 9.8 185719.8 -0252.7  
4844 9.4 185728.5 -0215.9  
4845 9.3 185740.1 -0235.8  
4846 9.8 185748.0 -0221.8  
4847 9.5 185752.7 -0243.9  
4848 9.8 185758.6 -0230.0  
  
4849 9.8 185759.4 -0210.3  
4850 9.6 185811.7 -0241.1  
4851 9.0 185817.7 -0225.4  
4852 10. 185822.0 -0252.4  
4853 9.0 185830.7 -0228.4  
4854 9.2 185835.4 -0203.0  
4855 9.3 185857.1 -0229.8  
4856 9.5 185914.4 -0240.6  
4857 9.2 185918.3 -0242.7  
4858 9.8 185928.9 -0205.1  
  
4859 9.2 185930.5 -0217.8  
4860 9.1 185933.2 -0225.1  
4861 9.4 185951.5 -0222.2  
4862 9.8 185956.1 -0230.3  
4863 9.8 185957.9 -0208.8  
4864 9.0 185958.1 -0241.5  
4865 9.0 190009.9 -0240.4  
4866 9.4 190015.0 -0258.8  
4867 9.4 190033.5 -0214.0  
4868 9.0 190038.6 -0241.0  
  
4869 9.8 190051.5 -0212.9  
4870 9.6 190054.1 -0238.2  
4871 9.8 190114.1 -0201.0  
4872 7.0 190119.3 -0230.8  
4873 9.8 190151.5 -0219.8  
4874 9.3 190223.0 -0208.0  
4875 9.5 190223.3 -0257.1  
4876 9.8 190230.1 -0252.6  
4877 9.6 190234.6 -0213.1  
4878 9.0 190254.4 -0240.8  
  
4879 9.2 190305.5 -0226.4  
4880 9.3 190333.4 -0254.1  
4881 7.7 190336.9 -0252.2  
4882 9.3 190342.0 -0221.9  
4883 9.8 190344.6 -0242.7  
4884 9.5 190347.4 -0201.2  
4885 8.8 190415.8 -0236.7  
4886 8.9 190428.9 -0246.3  
4887 9.8 190454.7 -0215.5  
4888 9.5 190501.6 -0249.7

4889 9.5 190506.6 -0257.2  
4890 9.5 190517.7 -0240.3  
4891 9.5 190524.1 -0232.9  
4892 9.7 190530.9 -0209.9  
4893 10. 190531.8 -0213.5  
4894 9.4 190545.1 -0237.0  
4895 9.5 190548.6 -0225.8  
4896 9.6 190606.9 -0204.2  
4897 8.3 190615.7 -0204.6  
4898 9.4 190617.1 -0250.6  
  
4899 9.0 190619.6 -0258.6  
4900 9.8 190626.5 -0223.6  
4901 8.9 190628.7 -0203.5  
4902 9.1 190641.5 -0222.0  
4903 9.7 190648.5 -0212.6  
4904 9.8 190653.5 -0218.2  
4905 8.5 190655.6 -0240.0  
4906 9.1 190703.3 -0210.5  
4907 9.1 190709.3 -0210.2  
4908 9.8 190714.0 -0215.2  
  
4909 9.8 190714.5 -0211.9  
4910 9.8 190717.1 -0250.6  
4911 10. 190755.2 -0215.2  
4912 8.3 190809.6 -0249.7  
4913 8.5 190817.3 -0215.8  
4914 9.2 190829.1 -0253.1  
4915 9.8 190831.5 -0216.7  
4916 8.5 190841.3 -0255.1  
4917 8.9 190843.5 -0211.8  
4918 8.5 190848.6 -0222.8  
  
4919 9.5 190902.9 -0212.1  
4920 8.6 190903.0 -0228.4  
4921 9.5 190905.0 -0245.5  
4922 9.6 190913.1 -0216.0  
4923 9.4 190923.5 -0221.3  
4924 8.3 190925.7 -0212.3  
4925 9.3 190934.3 -0243.2  
4926 9.8 190934.3 -0229.4  
4927 9.5 190939.0 -0201.4  
4928 9.4 190940.3 -0230.6  
  
4929 9.3 190943.2 -0247.7  
4930 9.5 191046.4 -0201.7  
4931 9.5 191048.5 -0258.0  
4932 9.0 191050.1 -0223.5  
4933 9.4 191105.5 -0254.7  
4934 9.4 191107.0 -0208.7  
4935 9.2 191108.6 -0208.8  
4936 9.7 191202.1 -0258.1  
4937 9.1 191206.7 -0222.5  
4938 9.3 191212.2 -0226.7  
  
4939 9.5 191227.5 -0226.2  
4940 9.7 191230.1 -0254.8  
4941 9.7 191230.9 -0248.7  
4942 9.5 191237.0 -0202.3  
4943 7.8 191240.7 -0251.7  
4944 9.5 191252.8 -0202.4  
4945 9.7 191253.0 -0245.4  
4946 7.3 191303.0 -0244.9  
4947 9.5 191308.7 -0215.0  
4948 9.5 191327.1 -0250.6  
  
4949 9.5 191349.0 -0248.0  
4950 8.5 191402.7 -0245.4  
4951 9.3 191406.5 -0215.3  
4952 9.8 191408.7 -0236.0  
4953 9.2 191409.7 -0251.8  
4954 9.0 191412.5 -0250.8  
4955 9.3 191413.5 -0224.7  
4956 8.0 191415.1 -0206.4  
4957 9.4 191424.7 -0237.4  
4958 9.8 191425.4 -0213.2  
  
4959 9.8 191433.3 -0249.8  
4960 9.8 191440.6 -0217.7  
4961 9.7 191458.3 -0254.5  
4962 9.4 191505.6 -0218.9  
4963 9.2 191513.4 -0214.9  
4964 9.1 191515.4 -0202.4  
4965 9.2 191524.4 -0200.9  
4966 9.5 191527.3 -0257.7  
4967 9.7 191531.8 -0205.6  
4968 9. 191538.7 -0251.7  
  
4969 9.8 191542.2 -0211.8  
4970 9.8 191544.2 -0215.6  
4971 9.8 191551.8 -0238.7  
4972 9.8 191619.4 -0209.1  
4973 9.1 191633.7 -0225.9  
4974 9.0 191644.9 -0208.4  
4975 9.0 191654.0 -0204.2  
4976 9.3 191706.6 -0206.0  
4977 9.8 191707.5 -0245.9  
4978 8.9 191726.3 -0243.7

4979 9.4 191727.1 -0239.1  
4980 9.4 191727.2 -0220.6  
4981 9.5 191735.3 -0223.1  
4982 8.7 191745.5 -0223.0  
4983 9.1 191746.2 -0224.8  
4984 9.5 191749.7 -0210.0  
4985 9.4 191803.4 -0218.9  
4986 7.0 191805.2 -0220.4  
4987 9.0 191812.1 -0207.0  
4988 9.4 191813.0 -0226.0  
  
4989 9.5 191819.6 -0245.1  
4990 9.8 191834.2 -0205.8  
4991 9.5 191848.8 -0229.2  
4992 7.8 191850.2 -0213.9  
4993 9.5 191855.2 -0220.0  
4994 9.4 191904.7 -0209.0  
4995 9.5 191906.8 -0231.8  
4996 9.8 191945.8 -0256.3  
4997 9.5 191947.8 -0242.9  
4998 7.5 191950.0 -0218.4  
  
4999 9.7 192000.3 -0249.2  
5000 10. 192014.5 -0245.8  
5001 9.4 192023.7 -0230.7  
5002 9.5 192033.5 -0216.7  
5003 8.8 192041.9 -0245.3  
5004 9.5 192055.2 -0254.2  
5005 9.4 192057.3 -0247.7  
5006 9.5 192106.8 -0224.9  
5007 11. 192109.7 -0249.8  
5008 1.4 192119.6 -0240.6  
  
5009 9.8 192128.3 -0239.2  
5010 9.5 192139.7 -0200.2  
5011 9.0 192159.0 -0223.6  
5012 9.5 192201.3 -0229.1  
5013 9.8 192210.2 -0258.5  
5014 9.1 192212.2 -0221.4  
5015 9.8 192211.8 -0244.4  
5016 9.6 192247.0 -0254.0  
5017 9.5 192248.0 -0227.6  
5018 9.3 192251.8 -0233.5  
  
5019 9. 192259.2 -0237.2  
5020 9.1 192259.3 -0243.5  
5021 9.4 192327.5 -0240.3  
5022 7.7 192327.6 -0219.5  
5023 9.5 192346.2 -0234.9  
5024 7.3 192346.2 -0224.3  
5025 9.1 192408.9 -0236.2  
5026 9.0 192416.1 -0223.6  
5027 9.0 192420.7 -0240.3  
5028 9.4 192431.7 -0241.6  
  
5029 9.6 192447.6 -0216.2  
5030 9.8 192504.8 -0253.4  
5031 9.4 192513.8 -0227.6  
5032 9.4 192544.2 -0220.3  
5033 9.3 192547.3 -0222.5  
5034 9.8 192551.0 -0245.0  
5035 9.6 192559.4 -0207.3  
5036 8.5 192600.0 -0211.1  
5037 9.7 192602.5 -0252.2  
5038 8.6 192620.8 -0228.9  
  
5039 9.1 192632.3 -0219.2  
5040 8.8 192636.2 -0216.7  
5041 9.5 192640.4 -0207.2  
5042 9.3 192640.5 -0223.8  
5043 9.4 192647.8 -0230.3  
5044 9.3 192657.8 -0228.7  
5045 9.5 192708.3 -0257.6  
5046 9.8 192708.4 -0233.5  
5047 9.2 192716.0 -0258.0  
5048 8.5 192732.8 -0230.4  
  
5049 8.9 192739.1 -0233.9  
5050 9.4 192739.1 -0211.8  
5051 9.1 192742.9 -0238.5  
5052 9.0 192812.6 -0245.3  
5053 9.5 192813.6 -0257.1  
5054 7.7 192817.7 -0245.7  
5055 9.4 192823.7 -0216.7  
5056 8.9 192839.0 -0254.0  
5057 8.3 192847.2 -0238.2  
5058 9.4 192902.5 -0221.4  
  
5059 9.7 192914.1 -0259.4  
5060 9.8 192916.3 -0230.1  
5061 9.4 192917.4 -0225.5  
5062 9.5 192955.8 -0230.5  
5063 9.2 192956.8 -0204.0  
5064 9.5 193006.9 -0216.2  
5065 9.2 193016.6 -0253.2  
5066 8.9 193017.3 -0245.3  
5067 9.5 193026.0 -0219.9  
5068 9.0 193034.4 -0251.9

-02 5068 19h30m



-02 5069 19h31m

5069 9.8 193100.5 -0248.8  
5070 9.5 193108.7 -0203.1  
5071 9.3 193120.6 -0254.6  
5072 9.5 193140.0 -0256.2  
5073 9.5 193145.7 -0203.1  
5074 9.8 193240.3 -0255.5  
5075 8.5 193241.2 -0259.3  
5076 9.5 193302.4 -0205.2  
5077 9.4 193307.9 -0202.2  
5078 9.3 193321.2 -0214.8  
  
5079 8.0 193321.5 -0211.6  
5080 8.9 193333.6 -0238.0  
5081 8.0 193339.1 -0238.5  
5082 9.4 193347.3 -0251.3  
5083 9.4 193349.0 -0253.6  
5084 9.5 193400.0 -0243.5  
5085 9.1 193400.7 -0244.0  
5086 9.6 193406.0 -0241.0  
5087 9.8 193417.2 -0252.8  
5088 9.8 193453.6 -0248.9  
  
5089 9.6 193501.1 -0245.1  
5090 8.8 193503.0 -0255.4  
5091 9.5 193506.0 -0220.7  
5092 9.5 193553.0 -0229.3  
5093 8.7 193602.9 -0246.9  
5094 8.5 193613.8 -0218.1  
5095 8.9 193633.3 -0220.8  
5096 9.5 193638.4 -0255.6  
5097 9.5 193641.3 -0245.3  
5098 9.8 193650.1 -0231.0  
  
5099 9.1 193712.3 -0257.9  
5100 9.7 193722.7 -0254.0  
5101 9.8 193724.6 -0230.3  
5102 9.3 193725.9 -0204.2  
5103 8.7 193732.4 -0252.2  
5104 9.5 193751.6 -0201.2  
5105 9.1 193751.9 -0209.5  
5106 9.2 193804.6 -0225.5  
5107 9.5 193821.3 -0220.4  
5108 10. 193821.5 -0258.8  
  
5109 9.6 193832.8 -0254.8  
5110 9.6 193836.9 -0243.7  
5111 9.4 193905.0 -0229.6  
5112 8.7 193923.6 -0236.8  
5113 9.5 193937.0 -0233.1  
5114 9.2 193937.4 -0204.2  
5115 8.7 193951.9 -0209.2  
5116 8.9 194011.5 -0215.2  
5117 9.3 194027.0 -0254.2  
5118 9.1 194028.1 -0203.2  
  
5119 9.4 194031.8 -0244.4  
5120 9.7 194037.3 -0216.3  
5121 9.8 194042.8 -0225.7  
5122 10. 194044.6 -0213.1  
5123 9.5 194050.4 -0252.0  
5124 7.5 194106.9 -0210.7  
5125 9.0 194133.3 -0200.8  
5126 9.5 194140.2 -0201.8  
5127 9.3 194145.4 -0235.6  
5128 9.5 194215.0 -0224.8  
  
5129 9.1 194224.5 -0223.8  
5130 8.8 194232.6 -0231.1  
5131 9.1 194241.0 -0225.0  
5132 9.0 194320.3 -0246.3  
5133 6.7 194337.0 -0249.2  
5134 9.2 194348.9 -0240.1  
5135 9.5 194404.7 -0253.0  
5136 8.0 194431.6 -0230.8  
5137 9.4 194505.6 -0230.3  
5138 10. 194508.4 -0249.2  
  
5139 9.1 194547.5 -0257.6  
5140 9.8 194557.5 -0234.4  
5141 8.9 194557.5 -0215.2  
5142 9.5 194618.6 -0240.1  
5143 9.5 194637.6 -0241.2  
5144 9.3 194722.0 -0226.1  
5145 9.7 194757.4 -0247.1  
5146 9.5 194810.9 -0208.1  
5147 8.7 194823.0 -0216.6  
5148 9.8 194917.1 -0230.2  
  
5149 8.8 194917.8 -0241.2  
5150 9.8 194925.6 -0231.1  
5151 8.7 194944.7 -0222.5  
5152 9.8 195001.8 -0241.4  
5153 9.2 195013.4 -0223.8  
5154 9.2 195040.6 -0244.9  
5155 7.5 195050.1 -0236.6  
5156 9.8 195112.8 -0240.7  
5157 8.8 195131.3 -0249.8  
5158 9.5 195139.0 -0222.0

5159 7.0 195210.0 -0221.1  
5160 9.0 195212.0 -0254.0  
5161 9.5 195217.6 -0210.3  
5162 9.5 195249.5 -0225.5  
5163 9.2 195307.4 -0203.0  
5164 9.4 195316.4 -0253.1  
5165 9.8 195319.0 -0204.2  
5166 9.3 195324.6 -0200.2  
5167 9.2 195338.3 -0240.6  
5168 9.0 195405.9 -0204.0  
  
5169 9.1 195410.2 -0204.2  
5170 9.5 195502.9 -0252.5  
5171 9.8 195524.0 -0255.5  
5172 9.8 195532.4 -0203.1  
5173 9.4 195605.6 -0257.8  
5174 9.3 195642.9 -0205.5  
5175 8.9 195718.6 -0243.3  
5176 9.4 195729.7 -0245.0  
5177 9.3 195827.2 -0209.7  
5178 8.0 195841.4 -0207.5  
  
5179 9.0 195847.0 -0249.1  
5180 9.2 195925.4 -0250.8  
5181 9.8 195940.7 -0246.1  
5182 9.6 200001.5 -0219.2  
5183 9.2 200014.1 -0201.2  
5184 8.4 200019.6 -0240.7  
5185 9.5 200028.7 -0242.8  
5186 9.1 200034.3 -0247.7  
5187 9.4 200038.9 -0231.1  
5188 8.7 200154.1 -0203.5  
  
5189 8.2 200202.0 -0248.1  
5190 9.5 200226.6 -0255.9  
5191 9.6 200227.3 -0250.5  
5192 9.4 200233.1 -0220.0  
5193 9.5 200241.2 -0235.5  
5194 9.6 200256.1 -0225.0  
5195 9.5 200259.8 -0203.3  
5196 9.7 200327.5 -0244.3  
5197 9.8 200531.2 -0227.7  
5198 9.7 200541.5 -0256.8  
  
5199 9.7 200558.7 -0206.0  
5200 9.7 200600.8 -0215.7  
5201 9.3 200618.6 -0229.5  
5202 9.5 200620.0 -0247.8  
5203 9.3 200621.5 -0200.3  
5204 9.1 200635.9 -0203.1  
5205 8.8 200648.5 -0231.1  
5206 9.8 200655.7 -0211.8  
5207 10. 200704.0 -0230.1  
5208 9.7 200724.0 -0211.9  
  
5209 9.2 200732.1 -0221.4  
5210 9.5 200743.5 -0201.5  
5211 8.4 200744.4 -0231.7  
5212 9.2 200806.5 -0256.4  
5213 7.9 200810.2 -0259.9  
5214 9.8 200818.5 -0206.9  
5215 9.5 200838.1 -0221.6  
5216 8.3 200906.4 -0201.1  
5217 9.3 200912.8 -0252.7  
5218 9.2 200915.2 -0230.5  
  
5219 9.0 200949.1 -0219.1  
5220 9.8 200951.3 -0215.5  
5221 7.8 200952.0 -0230.3  
5222 9.0 200957.1 -0222.8  
5223 9.5 201001.6 -0249.0  
5224 9.5 201016.7 -0258.9  
5225 10. 201017.1 -0223.6  
5226 9.3 201021.1 -0217.6  
5227 9.4 201022.2 -0208.2  
5228 9.3 201035.2 -0234.8  
  
5229 9.5 201044.0 -0242.7  
5230 8.5 201048.6 -0221.5  
5231 9.4 201059.1 -0219.5  
5232 9.5 201131.2 -0245.6  
5233 9.9 201131.9 -0232.8  
5234 9.2 201138.8 -0210.7  
5235 9.6 201140.4 -0227.0  
5236 8.7 201157.1 -0234.6  
5237 9.4 201206.8 -0204.6  
5238 9.3 201213.4 -0201.8  
  
5239 9.0 201219.3 -0241.6  
5240 8.0 201219.6 -0241.4  
5241 9.8 201228.6 -0224.3  
5242 9.9 201239.9 -0251.2  
5243 9.6 201241.6 -0232.5  
5244 10. 201244.0 -0229.5  
5245 9.2 201255.7 -0239.7  
5246 9.2 201258.8 -0250.0  
5247 9.5 201307.2 -0234.9  
5248 9.4 201310.0 -0213.9

5249 9.5 201315.7 -0235.3  
5250 9.5 201320.3 -0246.6  
5251 9.8 201324.5 -0204.3  
5252 9.6 201325.1 -0201.4  
5253 9.5 201340.4 -0207.6  
5254 9.1 201343.0 -0204.7  
5255 9.4 201345.9 -0253.3  
5256 8.8 201352.6 -0227.6  
5257 9.5 201353.8 -0212.8  
5258 9.8 201359.1 -0257.5  
  
5259 9.6 201410.5 -0243.7  
5260 9.2 201435.5 -0257.1  
5261 9.5 201437.6 -0255.5  
5262 9.8 201506.7 -0235.4  
5263 9.6 201602.9 -0212.1  
5264 9.4 201603.8 -0219.2  
5265 9.5 201607.5 -0243.5  
5266 9.5 201619.7 -0202.4  
5267 9.7 201632.0 -0200.2  
5268 9.5 201636.6 -0202.4  
  
5269 9.5 201655.1 -0211.7  
5270 8.0 201711.4 -0200.1  
5271 9.7 201732.0 -0243.3  
5272 9.6 201837.5 -0204.0  
5273 9.5 201850.0 -0219.2  
5274 9.1 201857.4 -0253.7  
5275 9.5 201857.4 -0221.6  
5276 9.5 201906.6 -0227.4  
5277 9.4 201921.4 -0259.7  
5278 9.1 201921.9 -0248.8  
  
5279 8.0 201934.4 -0239.3  
5280 9.4 201951.8 -0249.7  
5281 7.8 201955.2 -0201.2  
5282 8.0 201955.7 -0235.1  
5283 7.0 201956.2 -0233.9  
5284 9.0 202000.2 -0228.6  
5285 9.8 202055.2 -0228.6  
5286 7.3 202118.1 -0212.8  
5287 9.5 202131.6 -0250.7  
5288 9.6 202152.7 -0219.9  
  
5289 9.3 202155.6 -0201.8  
5290 10. 202158.4 -0219.3  
5291 8.7 202217.6 -0232.8  
5292 9.5 202218.0 -0258.0  
5293 9.7 202342.3 -0244.7  
5294 9.1 202353.1 -0212.1  
5295 9.4 202421.1 -0215.5  
5296 9.5 202424.2 -0233.2  
5297 9.0 202445.6 -0233.7  
5298 9.1 202445.8 -0222.1  
  
5299 9.7 202457.5 -0216.1  
5300 9.8 202458.3 -0254.0  
5301 9.0 202502.6 -0234.8  
5302 9.6 202523.7 -0228.3  
5303 9.0 202531.0 -0237.0  
5304 9.5 202625.2 -0227.4  
5305 9.2 202632.4 -0210.7  
5306 10. 202634.1 -0209.7  
5307 9.6 202643.3 -0236.6  
5308 9.0 202646.8 -0215.0  
  
5309 9.6 202712.7 -0226.8  
5310 9.0 202717.3 -0245.5  
5311 9.0 202717.8 -0214.9  
5312 9.1 202723.8 -0250.6  
5313 9.6 202733.5 -0253.2  
5314 9.5 202743.5 -0241.7  
5315 8.0 202755.7 -0232.5  
5316 9.2 202806.2 -0252.9  
5317 9.6 202809.8 -0244.5  
5318 9.5 202814.4 -0256.8  
  
5319 8.8 202834.6 -0200.0  
5320 9.8 202900.6 -0206.5  
5321 9.3 202907.1 -0254.7  
5322 9.3 202920.8 -0217.7  
5323 9.3 202947.3 -0244.5  
5324 9.5 203019.1 -0239.7  
5325 10. 203033.2 -0242.8  
5326 9.7 203044.0 -0228.0  
5327 9.5 203133.6 -0210.2  
5328 6.9 203141.0 -0255.0  
  
5329 9.6 203255.2 -0206.6  
5330 9.2 203306.4 -0206.6  
5331 9.4 203315.9 -0229.8  
5332 9.6 203325.3 -0213.5  
5333 9.2 203336.8 -0233.8  
5334 9.5 203340.1 -0207.6  
5335 8.8 203350.3 -0249.2  
5336 9.1 203404.0 -0202.8  
5337 8.5 203409.7 -0217.9  
5338 8.6 203419.1 -0231.6

5339 9.6 203419.2 -0247.5  
5340 9.2 203425.0 -0258.6  
5341 9.5 203434.6 -0200.6  
5342 9.9 203437.9 -0248.7  
5343 7.6 203454.4 -0250.4  
5344 9.8 203504.9 -0241.2  
5345 8.4 203506.3 -0252.5  
5346 9.6 203518.5 -0253.2  
5347 9.5 203530.8 -0215.9  
5348 9.4 203538.8 -0217.6  
  
5349 9.0 203542.2 -0206.7  
5350 9.9 203553.1 -0203.3  
5351 8.0 203610.2 -0257.7  
5352 10. 203613.7 -0209.6  
5353 9.7 203620.9 -0237.5  
5354 9.3 203621.8 -0221.3  
5355 9.5 203648.7 -0257.3  
5356 9.6 203655.9 -0252.3  
5357 8.9 203704.0 -0251.9  
5358 9.4 203708.4 -0219.8  
  
5359 9.8 203722.8 -0223.4  
5360 9.5 203758.7 -0223.4  
5361 9.0 203813.6 -0249.2  
5362 9.6 203832.3 -0250.0  
5363 9.5 203845.9 -0240.4  
5364 9.5 203906.3 -0238.3  
5365 9.2 203929.8 -0212.7  
5366 8.2 203934.4 -0213.0  
5367 9.8 203944.7 -0245.5  
5368 9.5 204001.3 -0236.7  
  
5369 9.3 204031.3 -0224.9  
5370 9.0 204039.7 -0209.5  
5371 8.9 204120.5 -0245.6  
5372 9.8 204128.4 -0238.8  
5373 9.4 204129.2 -0257.7  
5374 9.5 204219.0 -0246.5  
5375 8.9 204220.7 -0202.8  
5376 9.4 204225.0 -0247.1  
5377 9.3 204248.3 -0255.7  
5378 8.7 204249.6 -0205.5  
  
5379 9.7 204249.7 -0228.5  
5380 10. 204302.0 -0250.1  
5381 9.3 204310.7 -0257.2  
5382 9.5 204313.7 -0212.2  
5383 9.3 204328.3 -0221.6  
5384 9.3 204338.9 -0228.8  
5385 10. 204343.8 -0248.0  
5386 9.8 204413.6 -0232.5  
5387 9.2 204416.3 -0205.7  
5388 9.7 204416.7 -0208.8  
  
5389 9.4 204419.8 -0216.2  
5390 8.6 204430.1 -0247.8  
5391 9.8 204516.4 -0220.0  
5392 8.4 204528.9 -0247.1  
5393 9.6 204613.4 -0229.3  
5394 9.4 204628.7 -0219.0  
5395 9.5 204651.7 -0202.1  
5396 9.8 204711.6 -0244.4  
5397 9.5 204717.6 -0215.4  
5398 9.9 204718.0 -0237.8  
  
5399 9.2 204720.5 -0253.0  
5400 9.0 204731.6 -0206.7  
5401 9.6 204742.8 -0241.6  
5402 9.5 204743.7 -0251.3  
5403 9.0 204743.9 -0233.3  
5404 9.3 204807.9 -0225.9  
5405 10. 204811.8 -0251.2  
5406 9.4 204819.4 -0237.7  
5407 9.3 204857.0 -0206.7  
5408 9.2 204858.5 -0207.1  
  
5409 8.9 204904.0 -0229.8  
5410 9.6 204924.6 -0251.0  
5411 9.3 204936.3 -0221.2  
5412 9.7 204946.0 -0255.6  
5413 8.5 205004.7 -0248.1  
5414 9.2 205010.0 -0248.8  
5415 10. 205021.2 -0219.6  
5416 8.7 205049.3 -0219.6  
5417 9.1 205053.9 -0228.9  
5418 9.8 205131.8 -0247.5  
  
5419 9.4 205148.6 -0228.0  
5420 9.6 205200.4 -0238.1  
5421 8.0 205201.7 -0201.9  
5422 8.8 205243.0 -0235.5  
5423 9.5 205317.2 -0258.5  
5424 9.4 205334.8 -0222.3  
5425 9.4 205338.3 -0241.9  
5426 8.8 205357.2 -0200.6  
5427 9.8 205448.1 -0241.2  
5428 9.3 205456.1 -0219.9

-02 5428 20h54m



-02 5429 20h54m

5429 9.6 205457.8 -0218.7  
5430 9.5 205522.0 -0216.1  
5431 10. 205523.4 -0250.0  
5432 9.3 205550.0 -0252.6  
5433 7.4 205557.9 -0253.0  
5434 7.0 205558.7 -0208.6  
5435 6.7 205601.7 -0240.7  
5436 9.4 205625.2 -0244.2  
5437 9.4 205643.6 -0215.9  
5438 9.1 205652.3 -0205.2

5439 9.8 205711.6 -0255.8  
5440 9.6 205713.9 -0224.0  
5441 9.5 205714.4 -0257.5  
5442 9.4 205719.0 -0231.8  
5443 9.5 205722.9 -0205.0  
5444 9.0 205726.5 -0246.4  
5445 9.5 205739.0 -0234.7  
5446 9.5 205754.4 -0210.3  
5447 9.5 205829.5 -0224.1  
5448 9.5 205840.5 -0248.4

5449 9.7 205851.5 -0232.6  
5450 9.5 205918.3 -0244.9  
5451 9.4 205919.4 -0221.6  
5452 10. 205921.2 -0219.4  
5453 9.0 205923.5 -0255.0  
5454 9.8 205947.5 -0254.1  
5455 9.5 210001.7 -0215.7  
5456 7.0 210010.5 -0237.4  
5457 9.8 210014.3 -0201.4  
5458 9.8 210020.4 -0256.0

5459 9.5 210040.8 -0253.6  
5460 9.1 210042.4 -0217.5  
5461 9.6 210058.3 -0257.7  
5462 9.7 210108.2 -0246.0  
5463 9.1 210119.9 -0205.1  
5464 9.3 210133.5 -0223.2  
5465 9.5 210145.2 -0205.3  
5466 9.5 210209.8 -0202.4  
5467 9.8 210211.9 -0255.7  
5468 9.5 210229.4 -0227.4

5469 9.5 210246.2 -0210.9  
5470 9.3 210247.0 -0235.3  
5471 9.4 210307.5 -0227.0  
5472 9.2 210311.0 -0236.0  
5473 9.7 210330.0 -0257.2  
5474 8.9 210345.9 -0210.6  
5475 9.5 210346.9 -0251.8  
5476 7.6 210402.3 -0244.3  
5477 9.1 210443.6 -0238.0  
5478 9.4 210444.2 -0244.7

5479 9.2 210451.2 -0229.7  
5480 9.3 210507.0 -0214.1  
5481 9.5 210532.1 -0237.1  
5482 9.6 210602.9 -0258.6  
5483 9.7 210610.7 -0250.4  
5484 9.5 210620.8 -0249.9  
5485 9.7 210641.5 -0234.1  
5486 8.9 210659.8 -0251.7  
5487 9.4 210719.4 -0227.5  
5488 8.3 210719.8 -0237.7

5489 9.8 210723.3 -0248.4  
5490 9.6 210744.3 -0251.0  
5491 9.8 210811.1 -0237.6  
5492 9.5 210837.5 -0233.9  
5493 9.5 210840.8 -0242.2  
5494 9.4 210851.1 -0249.7  
5495 6.8 210909.5 -0212.4  
5496 9.8 210911.5 -0252.3  
5497 9.2 210922.5 -0259.4  
5498 9.4 211010.5 -0214.9

5499 7.9 211033.4 -0244.8  
5500 9.5 211040.3 -0259.9  
5501 9.5 211048.5 -0203.2  
5502 10. 211055.8 -0220.4  
5503 9.5 211114.0 -0208.4  
5504 8.3 211115.6 -0244.5  
5505 8.3 211149.4 -0222.4  
5506 9.4 211247.9 -0207.4  
5507 8.3 211249.5 -0206.5  
5508 8.6 211255.6 -0239.9

5509 9.3 211259.1 -0255.0  
5510 9.0 211304.0 -0219.5  
5511 8.9 211309.4 -0203.6  
5512 9.9 211313.1 -0241.0  
5513 9.7 211315.6 -0243.5  
5514 9.2 211328.8 -0242.6  
5515 9.8 211352.5 -0209.0  
5516 9.1 211413.8 -0242.2  
5517 9.4 211419.7 -0202.7  
5518 9.2 211428.4 -0201.3

5519 9.8 211438.7 -0253.2  
5520 9.3 211502.1 -0231.8  
5521 10. 211531.4 -0251.0  
5522 8.8 211545.7 -0225.9  
5523 9.7 211552.0 -0219.1  
5524 9.1 211605.5 -0212.8  
5525 9.3 211636.1 -0232.0  
5526 9.5 211649.6 -0229.5  
5527 9.8 211654.1 -0250.6  
5528 9.5 211659.8 -0250.7

5529 9.5 211659.9 -0220.4  
5530 10. 211704.0 -0215.3  
5531 9.1 211704.7 -0220.1  
5532 8.7 211735.8 -0255.5  
5533 8.1 211735.9 -0236.3  
5534 9.6 211800.9 -0208.2  
5535 9.3 211816.5 -0207.0  
5536 9.8 211836.4 -0213.6  
5537 9.8 211848.6 -0221.9  
5538 9.5 211849.2 -0213.5

5539 8.8 211850.3 -0218.8  
5540 9.8 211943.9 -0253.6  
5541 9.0 211945.0 -0221.8  
5542 9.8 212002.2 -0244.0  
5543 9.3 212016.8 -0243.9  
5544 9.8 212056.4 -0248.9  
5545 9.8 212102.3 -0245.3  
5546 9.7 212108.2 -0255.7  
5547 9.1 212117.1 -0250.0  
5548 9.2 212134.5 -0211.8

5549 9.5 212211.4 -0227.0  
5550 9.5 212239.2 -0205.6  
5551 8.3 212244.5 -0209.9  
5552 9.5 212301.3 -0204.4  
5553 9.4 212329.2 -0228.6  
5554 8.8 212334.5 -0221.7  
5555 9.5 212408.7 -0216.6  
5556 9.2 212410.2 -0211.7  
5557 9.8 212414.2 -0231.5  
5558 10. 212421.3 -0203.8

5559 9.2 212421.5 -0212.7  
5560 9.7 212431.5 -0207.3  
5561 8.7 212436.0 -0210.3  
5562 9.1 212446.1 -0235.7  
5563 8.3 212511.1 -0214.5  
5564 9.4 212543.6 -0232.2  
5565 9.2 212617.2 -0237.1  
5566 8.8 212638.0 -0211.9  
5567 9.4 212643.0 -0208.0  
5568 9.1 212656.7 -0239.5

5569 9.4 212710.1 -0237.4  
5570 9.6 212712.0 -0247.3  
5571 9.5 212740.3 -0242.8  
5572 9.3 212741.5 -0208.0  
5573 9.7 212744.0 -0247.1  
5574 9.3 212749.5 -0220.3  
5575 9.7 212757.2 -0231.9  
5576 9.6 212802.2 -0239.5  
5577 9.5 212807.1 -0203.8  
5578 9.2 212848.3 -0249.5

5579 9.1 212848.3 -0248.9  
5580 9.8 212920.2 -0248.2  
5581 9.3 212931.5 -0206.2  
5582 9.3 212932.1 -0212.7  
5583 9.5 212936.8 -0254.0  
5584 9.8 212945.6 -0241.8  
5585 9.6 212955.5 -0204.3  
5586 9.6 212959.6 -0213.5  
5587 8.9 213010.5 -0259.8  
5588 8.7 213041.9 -0256.4

5589 9.5 213049.8 -0207.9  
5590 8.9 213101.2 -0239.7  
5591 9.8 213112.2 -0255.4  
5592 9.5 213119.0 -0200.2  
5593 9.2 213129.6 -0213.1  
5594 9.8 213135.9 -0244.8  
5595 9.0 213209.7 -0230.7  
5596 10. 213210.1 -0200.0  
5597 9.3 213251.2 -0225.8  
5598 9.5 213251.5 -0247.4

5599 9.8 213253.7 -0229.8  
5600 8.6 213256.2 -0239.7  
5601 9.5 213335.1 -0212.6  
5602 9.3 213402.8 -0254.1  
5603 8.5 213408.7 -0235.2  
5604 9.3 213416.9 -0250.0  
5605 9.0 213420.6 -0222.0  
5606 9.6 213421.5 -0250.6  
5607 9.8 213426.5 -0201.5  
5608 9.8 213430.7 -0230.5

5609 8.7 213432.5 -0248.5  
5610 9.3 213457.5 -0239.6  
5611 9.6 213457.6 -0212.6  
5612 9.1 213500.6 -0219.9  
5613 8.3 213508.9 -0257.3  
5614 9.4 213512.5 -0211.9  
5615 9.0 213531.8 -0231.7  
5616 8.6 213533.3 -0241.2  
5617 9.4 213538.4 -0246.1  
5618 9.4 213540.0 -0245.7

5619 9.0 213549.4 -0222.6  
5620 9.5 213553.6 -0204.8  
5621 9.9 213623.2 -0250.7  
5622 9.6 213630.0 -0259.0  
5623 9.7 213720.8 -0231.4  
5624 9.8 213725.9 -0256.6  
5625 9.5 213738.7 -0253.2  
5626 9.8 213756.6 -0254.4  
5627 9.0 213808.9 -0206.0  
5628 9.6 213809.8 -0205.0

5629 9.7 213832.1 -0246.8  
5630 9.5 213855.9 -0222.1  
5631 6.8 213901.0 -0252.7  
5632 8.8 213904.5 -0242.6  
5633 9.4 213904.9 -0230.1  
5634 9.6 213909.1 -0201.2  
5635 9.0 213936.5 -0235.3  
5636 7.9 213936.8 -0257.4  
5637 8.8 214011.1 -0222.9  
5638 9.4 214029.8 -0231.5

5639 9.7 214041.6 -0247.2  
5640 10. 214128.0 -0201.1  
5641 9.1 214136.6 -0244.3  
5642 9.0 214139.8 -0242.9  
5643 8.8 214221.9 -0238.6  
5644 9.5 214307.1 -0204.4  
5645 9.0 214350.5 -0215.7  
5646 8.0 214357.1 -0255.1  
5647 10. 214422.9 -0223.7  
5648 9.1 214426.1 -0249.5

5649 9.4 214444.2 -0223.4  
5650 9.2 214525.3 -0215.6  
5651 9.9 214556.1 -0253.1  
5652 9.4 214601.8 -0233.2  
5653 9.1 214624.5 -0224.6  
5654 9.8 214626.5 -0225.3  
5655 10. 214648.9 -0221.3  
5656 9.8 214706.6 -0211.0  
5657 8.8 214715.3 -0224.6  
5658 9.5 214720.8 -0245.5

5659 9.2 214730.1 -0254.6  
5660 9.7 214731.2 -0235.3  
5661 9.7 214825.0 -0227.0  
5662 9.4 214847.4 -0225.4  
5663 9.8 214847.5 -0219.1  
5664 9.8 214852.5 -0257.2  
5665 9.8 214929.3 -0248.7  
5666 9.7 215006.7 -0215.9  
5667 9.0 215033.2 -0215.1  
5668 8.4 215050.0 -0230.9

5669 9.9 215106.1 -0232.3  
5670 9.7 215121.2 -0208.9  
5671 9.5 215129.4 -0256.2  
5672 9.7 215131.7 -0233.9  
5673 8.1 215153.2 -0204.1  
5674 9.7 215303.7 -0218.1  
5675 9.4 215311.0 -0221.7  
5676 9.7 215323.7 -0243.5  
5677 10. 215405.4 -0241.5  
5678 9.7 215457.3 -0205.0

5679 9.9 215536.0 -0235.3  
5680 9.6 215546.2 -0207.0  
5681 5.3 215548.5 -0251.2  
5682 9.7 215555.8 -0257.2  
5683 9.2 215609.4 -0226.0  
5684 9.5 215610.5 -0241.1  
5685 9.4 215634.1 -0250.8  
5686 9.0 215639.4 -0237.7  
5687 8.9 215649.6 -0248.1  
5688 9.2 215749.2 -0207.3

5689 8.2 215751.2 -0207.6  
5690 10. 215756.8 -0208.2  
5691 8.8 215822.8 -0219.4  
5692 9.0 215831.7 -0245.8  
5693 9.7 215853.8 -0223.0  
5694 9.3 215856.4 -0222.6  
5695 10. 215909.2 -0221.6  
5696 9.6 215917.5 -0237.5  
5697 9.5 215919.5 -0226.6  
5698 10. 215934.9 -0241.2

-02 5788 22h28m

5699 10. 220007.5 -0205.6  
5700 9.1 220111.7 -0208.0  
5701 9.0 220123.6 -0242.1  
5702 9.7 220126.4 -0256.7  
5703 10. 220129.8 -0257.0  
5704 10. 220158.3 -0213.5  
5705 8.7 220205.7 -0243.9  
5706 9.5 220222.8 -0222.0  
5707 10. 220236.0 -0205.9  
5708 8.7 220313.7 -0250.2

5709 9.5 220408.1 -0250.5  
5710 9.5 220424.5 -0200.3  
5711 9.5 220436.9 -0221.2  
5712 9.6 220437.7 -0205.8  
5713 10. 220543.5 -0252.7  
5714 7.4 220555.4 -0221.9  
5715 9.9 220618.5 -0241.8  
5716 9.6 220629.4 -0227.7  
5717 9.1 220648.2 -0208.6  
5718 10. 220648.6 -0258.3

5719 9.5 220733.8 -0212.2  
5720 8.0 220733.9 -0246.6  
5721 9.5 220747.1 -0250.6  
5722 9.7 220826.3 -0213.6  
5723 10. 220842.7 -0256.1  
5724 9.6 220846.8 -0210.5  
5725 9.5 220847.7 -0204.9  
5726 6.3 220905.4 -0218.8  
5727 9.3 221001.5 -0251.1  
5728 9.0 221044.2 -0256.1

5729 9.7 221049.3 -0249.9  
5730 9.2 221105.1 -0242.6  
5731 9.4 221122.5 -0226.7  
5732 9.0 221146.8 -0207.7  
5733 8.5 221121.5 -0231.7  
5734 9.5 221221.4 -0249.2  
5735 9.7 221232.2 -0258.1  
5736 9.0 221244.4 -0248.3  
5737 9.1 221331.9 -0259.2  
5738 9.4 221335.9 -0208.9

5739 9.2 221346.8 -0248.8  
5740 8.7 221359.8 -0250.0  
5741 4.0 221409.8 -0207.0  
5742 9.5 221414.1 -0233.4  
5743 9.2 221416.8 -0234.9  
5744 8.9 221430.7 -0239.0  
5745 9.1 221456.1 -0243.7  
5746 9.5 221515.4 -0222.0  
5747 9.8 221516.6 -0257.7  
5748 9.2 221523.1 -0244.2

5749 9.6 221637.5 -0218.2  
5750 7.7 221641.5 -0247.5  
5751 8.5 221649.9 -0210.4  
5752 10. 221723.0 -0242.5  
5753 9.5 221729.8 -0241.6  
5754 9.8 221740.5 -0224.3  
5755 10. 221823.0 -0245.8  
5756 9.3 221850.3 -0216.3  
5757 9.4 221903.4 -0251.8  
5758 10. 221911.8 -0223.4

5759 9.7 221913.5 -0243.0  
5760 8.4 221937.2 -0249.1  
5761 7.3 221938.3 -0202.8  
5762 9.6 221938.9 -0251.1  
5763 9.1 221941.5 -0230.9  
5764 9.4 221945.1 -0219.6  
5765 9.0 221958.2 -0223.2  
5766 9.3 222032.4 -0221.3  
5767 8.8 222050.7 -0206.7  
5768 9.5 222224.2 -0254.7

5769 9.4 222307.9 -0214.0  
5770 9.2 222333.0 -0221.1  
5771 10. 222337.6 -0243.4  
5772 9.4 222351.9 -0257.7  
5773 9.6 222406.6 -0254.7  
5774 9.3 222449.0 -0227.2  
5775 9.5 222454.5 -0223.4  
5776 8.5 222503.4 -0215.6  
5777 9.9 222538.7 -0256.6  
5778 9.0 222555.5 -0221.2

5779 9.3 222558.1 -0227.5  
5780 8.8 222633.8 -0232.0  
5781 6.3 222634.7 -0219.0  
5782 9.0 222710.0 -0209.0  
5783 8.3 222710.7 -0213.6  
5784 9.5 222717.4 -0206.7  
5785 8.2 222738.2 -0216.0  
5786 9.5 222743.5 -0200.0  
5787 9.5 222752.9 -0257.4  
5788 9.6 222822.9 -0255.4



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 5789 | 9.5 | 222848.7 | -0216.3 | 5879 | 9.3 | 225739.8 | -0225.0 | 5969 | 10. | 232116.0 | -0233.2 | 6059 | 7.5 | 234713.2 | -0245.1 |
| 5790 | 9.7 | 222920.3 | -0259.8 | 5880 | 9.4 | 225745.1 | -0236.0 | 5970 | 10. | 232121.0 | -0212.7 | 6060 | 9.2 | 234752.4 | -0222.7 |
| 5791 | 9.8 | 222922.9 | -0213.8 | 5881 | 9.5 | 225759.6 | -0251.5 | 5971 | 8.7 | 232135.3 | -0216.0 | 6061 | 10. | 234753.2 | -0215.8 |
| 5792 | 10. | 222928.3 | -0254.6 | 5882 | 10. | 225823.9 | -0204.0 | 5972 | 9.9 | 232141.8 | -0258.4 | 6062 | 9.2 | 234758.9 | -0255.1 |
| 5793 | 8.7 | 222945.5 | -0223.2 | 5883 | 9.1 | 225831.2 | -0252.2 | 5973 | 6.5 | 232200.3 | -0235.1 | 6063 | 10. | 234839.2 | -0234.6 |
| 5794 | 9.3 | 223017.4 | -0208.1 | 5884 | 10. | 225925.9 | -0206.2 | 5974 | 9.4 | 232210.0 | -0230.0 | 6064 | 9.2 | 234929.2 | -0256.2 |
| 5795 | 10. | 223018.3 | -0251.1 | 5885 | 10. | 225955.9 | -0256.7 | 5975 | 9.4 | 232216.3 | -0216.6 | 6065 | 9.5 | 234937.1 | -0257.0 |
| 5796 | 9.6 | 223035.6 | -0250.7 | 5886 | 8.9 | 230012.6 | -0253.4 | 5976 | 9.5 | 232217.9 | -0245.2 | 6066 | 10. | 235037.2 | -0227.0 |
| 5797 | 9.8 | 223047.8 | -0207.5 | 5887 | 9.2 | 230024.9 | -0225.9 | 5977 | 9.5 | 232300.0 | -0238.9 | 6067 | 8.7 | 235037.4 | -0247.1 |
| 5798 | 9.7 | 223113.2 | -0252.0 | 5888 | 10. | 230044.9 | -0229.5 | 5978 | 9.5 | 232301.0 | -0241.6 | 6068 | 8.4 | 235106.4 | -0229.5 |
| 5799 | 9.5 | 223120.0 | -0200.1 | 5889 | 10. | 230046.9 | -0213.0 | 5979 | 9.8 | 232314.2 | -0241.6 | 6069 | 10. | 235126.2 | -0212.7 |
| 5800 | 9.1 | 223159.3 | -0230.0 | 5890 | 9.3 | 230047.8 | -0216.7 | 5980 | 9.8 | 232318.3 | -0255.0 | 6070 | 9.5 | 235156.2 | -0225.7 |
| 5801 | 9.5 | 223210.8 | -0220.7 | 5891 | 10. | 230051.9 | -0208.5 | 5981 | 10. | 232448.0 | -0205.0 | 6071 | 7.2 | 235207.7 | -0239.4 |
| 5802 | 9.4 | 223214.1 | -0202.8 | 5892 | 9.5 | 230057.6 | -0225.8 | 5982 | 9.3 | 232526.8 | -0204.1 | 6072 | 8.1 | 235222.6 | -0255.3 |
| 5803 | 9.7 | 223229.0 | -0252.6 | 5893 | 9.6 | 230058.6 | -0239.0 | 5983 | 10. | 232545.0 | -0251.5 | 6073 | 8.8 | 235224.8 | -0200.3 |
| 5804 | 9.3 | 223232.3 | -0236.9 | 5894 | 9.5 | 230133.9 | -0240.2 | 5984 | 9.3 | 232613.8 | -0218.6 | 6074 | 9.5 | 235227.2 | -0232.8 |
| 5805 | 10. | 223232.3 | -0231.3 | 5895 | 9.5 | 230309.9 | -0208.5 | 5985 | 9.5 | 232615.1 | -0244.4 | 6075 | 9.5 | 235305.7 | -0244.2 |
| 5806 | 9.8 | 223234.4 | -0259.6 | 5896 | 9.5 | 230318.9 | -0224.1 | 5986 | 6.0 | 232641.8 | -0203.0 | 6076 | 10. | 235320.8 | -0250.4 |
| 5807 | 9.7 | 223239.9 | -0248.6 | 5897 | 9.8 | 230325.7 | -0232.1 | 5987 | 10. | 232654.0 | -0248.8 | 6077 | 9.7 | 235327.2 | -0249.8 |
| 5808 | 9.5 | 223251.5 | -0205.7 | 5898 | 9.0 | 230344.1 | -0203.3 | 5988 | 9.5 | 232659.1 | -0219.4 | 6078 | 9.3 | 235356.6 | -0226.1 |
| 5809 | 9.4 | 223252.6 | -0240.8 | 5899 | 9.9 | 230356.2 | -0259.6 | 5989 | 9.3 | 232705.7 | -0242.5 | 6079 | 9.5 | 235437.1 | -0221.7 |
| 5810 | 9.6 | 223253.5 | -0249.8 | 5900 | 9.5 | 230404.6 | -0250.2 | 5990 | 9.5 | 232712.8 | -0218.5 | 6080 | 9.1 | 235451.2 | -0256.8 |
| 5811 | 9.8 | 223306.8 | -0230.0 | 5901 | 9.5 | 230412.1 | -0218.6 | 5991 | 9.5 | 232714.3 | -0220.7 | 6081 | 9.8 | 235528.2 | -0243.0 |
| 5812 | 9.1 | 223343.1 | -0212.3 | 5902 | 9.1 | 230414.7 | -0228.2 | 5992 | 9.8 | 232750.1 | -0256.0 | 6082 | 9.6 | 235542.8 | -0238.7 |
| 5813 | 9.5 | 223357.8 | -0232.3 | 5903 | 8.8 | 230437.2 | -0256.1 | 5993 | 9.0 | 232802.3 | -0237.1 | 6083 | 9.4 | 235547.2 | -0227.8 |
| 5814 | 9.5 | 223401.1 | -0211.0 | 5904 | 8.7 | 230445.2 | -0250.1 | 5994 | 9.5 | 232814.1 | -0225.2 | 6084 | 8.8 | 235616.2 | -0221.9 |
| 5815 | 9.1 | 223445.1 | -0255.5 | 5905 | 9.5 | 230511.9 | -0225.0 | 5995 | 9.3 | 232831.8 | -0255.9 | 6085 | 9.8 | 235621.3 | -0208.0 |
| 5816 | 8.9 | 223507.7 | -0248.1 | 5906 | 9.8 | 230514.9 | -0241.2 | 5996 | 9.7 | 232854.1 | -0202.9 | 6086 | 10. | 235654.8 | -0235.0 |
| 5817 | 10. | 223508.6 | -0229.1 | 5907 | 8.8 | 230544.6 | -0251.2 | 5997 | 9.6 | 232910.3 | -0205.7 | 6087 | 10. | 235655.3 | -0242.6 |
| 5818 | 10. | 223604.2 | -0212.2 | 5908 | 9.5 | 230554.9 | -0213.8 | 5998 | 8.6 | 232950.3 | -0218.9 | 6088 | 10. | 235657.3 | -0234.1 |
| 5819 | 9.6 | 223615.7 | -0217.1 | 5909 | 9.4 | 230605.1 | -0214.7 | 5999 | 9.3 | 233023.3 | -0218.5 | 6089 | 9.4 | 235735.7 | -0221.8 |
| 5820 | 9.4 | 223629.3 | -0224.0 | 5910 | 9.1 | 230606.9 | -0246.9 | 6000 | 8.1 | 233040.3 | -0208.5 | 6090 | 8.7 | 235744.3 | -0239.8 |
| 5821 | 10. | 223700.3 | -0222.6 | 5911 | 9.4 | 230609.7 | -0220.4 | 6001 | 9.4 | 233104.3 | -0240.4 | 6091 | 8.0 | 235752.2 | -0236.1 |
| 5822 | 9.5 | 223710.2 | -0213.4 | 5912 | 9.4 | 230705.3 | -0245.2 | 6002 | 9.5 | 233116.6 | -0242.4 | 6092 | 9.5 | 235759.2 | -0227.1 |
| 5823 | 9.4 | 223804.0 | -0248.1 | 5913 | 8.9 | 230714.6 | -0252.2 | 6003 | 10. | 233119.1 | -0240.4 | 6093 | 8.7 | 235759.2 | -0214.9 |
| 5824 | 9.7 | 223805.3 | -0243.3 | 5914 | 7.0 | 230803.0 | -0213.0 | 6004 | 9.7 | 233119.6 | -0232.4 | 6094 | 8.3 | 235804.3 | -0238.1 |
| 5825 | 9.5 | 223920.4 | -0249.1 | 5915 | 9.4 | 230854.6 | -0200.2 | 6005 | 9.3 | 233130.3 | -0254.3 | 6095 | 9.5 | 235827.7 | -0223.2 |
| 5826 | 7.0 | 224001.3 | -0232.8 | 5916 | 9.5 | 230859.9 | -0228.8 | 6006 | 10. | 233148.1 | -0203.3 | 6096 | 10. | 235843.3 | -0250.2 |
| 5827 | 9.5 | 224108.6 | -0201.5 | 5917 | 7.7 | 230906.7 | -0222.5 | 6007 | 8.9 | 233156.5 | -0257.6 | 6097 | 9.0 | 235845.3 | -0258.0 |
| 5828 | 9.2 | 224111.2 | -0254.7 | 5918 | 7.9 | 230915.6 | -0236.8 | 6008 | 9.8 | 233158.8 | -0238.7 | 6098 | 8.5 | 235847.2 | -0242.3 |
| 5829 | 9.5 | 224116.8 | -0224.1 | 5919 | 10. | 230959.7 | -0250.8 | 6009 | 9.7 | 233226.4 | -0242.1 | 6099 | 8.0 | 235853.6 | -0202.4 |
| 5830 | 9.4 | 224149.4 | -0251.1 | 5920 | 8.1 | 231008.2 | -0218.5 | 6010 | 10. | 233232.1 | -0200.2 | 1    | 6.6 | 03007.1  | -0333.0 |
| 5831 | 9.8 | 224214.5 | -0259.1 | 5921 | 9.3 | 231025.9 | -0231.4 | 6011 | 10. | 233241.1 | -0242.6 | 2    | 9.8 | 00019.7  | -0321.3 |
| 5832 | 9.2 | 224247.2 | -0211.8 | 5922 | 10. | 231045.1 | -0257.2 | 6012 | 9.2 | 233247.3 | -0229.2 | 3    | 6.5 | 00046.1  | -0314.8 |
| 5833 | 9.2 | 224254.4 | -0241.1 | 5923 | 8.4 | 231049.2 | -0240.0 | 6013 | 8.8 | 233249.3 | -0233.5 | 4    | 9.5 | 00110.3  | -0334.8 |
| 5834 | 10. | 224313.6 | -0258.4 | 5924 | 9.5 | 231055.1 | -0213.7 | 6014 | 9.3 | 233304.8 | -0209.8 | 5    | 7.4 | 00117.4  | -0301.4 |
| 5835 | 9.8 | 224325.9 | -0230.6 | 5925 | 8.5 | 231059.9 | -0241.4 | 6015 | 10. | 233319.1 | -0210.9 | 6    | 10. | 00143.2  | -0319.1 |
| 5836 | 8.5 | 224341.7 | -0212.7 | 5926 | 8.9 | 231111.6 | -0243.2 | 6016 | 9.4 | 233339.3 | -0230.1 | 7    | 10. | 00151.1  | -0303.2 |
| 5837 | 8.9 | 224347.3 | -0225.0 | 5927 | 10. | 231134.9 | -0213.1 | 6017 | 9.7 | 233342.1 | -0229.7 | 8    | 9.5 | 00216.9  | -0349.0 |
| 5838 | 9.5 | 224348.7 | -0202.7 | 5928 | 9.4 | 231136.3 | -0254.2 | 6018 | 9.7 | 233343.5 | -0237.9 | 9    | 7.4 | 00230.1  | -0322.0 |
| 5839 | 9.2 | 224357.1 | -0241.0 | 5929 | 10. | 231155.9 | -0244.2 | 6019 | 10. | 233407.1 | -0201.6 | 10   | 10. | 00249.6  | -0318.7 |
| 5840 | 7.8 | 224405.3 | -0234.6 | 5930 | 10. | 231200.9 | -0227.8 | 6020 | 9.5 | 233416.1 | -0234.2 | 11   | 10. | 00255.6  | -0340.8 |
| 5841 | 9.5 | 224445.4 | -0242.1 | 5931 | 10. | 231215.2 | -0251.0 | 6021 | 8.3 | 233455.3 | -0218.1 | 12   | 9.1 | 00351.4  | -0317.2 |
| 5842 | 10. | 224510.0 | -0204.2 | 5932 | 9.2 | 231217.1 | -0222.0 | 6022 | 9.7 | 233536.1 | -0236.9 | 13   | 9.4 | 00402.2  | -0325.5 |
| 5843 | 9.0 | 224516.1 | -0206.9 | 5933 | 9.5 | 231217.9 | -0230.0 | 6023 | 9.6 | 233540.8 | -0226.6 | 14   | 8.0 | 00408.9  | -0352.7 |
| 5844 | 9.5 | 224527.5 | -0253.9 | 5934 | 9.2 | 231236.1 | -0223.5 | 6024 | 9.4 | 233542.8 | -0212.7 | 15   | 10. | 00410.6  | -0338.2 |
| 5845 | 9.2 | 224534.8 | -0221.4 | 5935 | 10. | 231238.9 | -0228.2 | 6025 | 10. | 233549.4 | -0245.3 | 16   | 9.7 | 00411.1  | -0305.2 |
| 5846 | 9.1 | 224542.8 | -0223.6 | 5936 | 9.4 | 231258.7 | -0202.7 | 6026 | 9.5 | 233608.8 | -0217.2 | 17   | 9.6 | 00456.4  | -0301.5 |
| 5847 | 9.3 | 224556.4 | -0250.9 | 5937 | 9.5 | 231306.7 | -0231.1 | 6027 | 9.5 | 233638.1 | -0225.7 | 18   | 7.8 | 00659.0  | -0300.1 |
| 5848 | 9.7 | 224631.7 | -0219.1 | 5938 | 9.5 | 231329.0 | -0238.0 | 6028 | 9.7 | 233702.1 | -0218.1 | 19   | 10. | 00717.5  | -0308.2 |
| 5849 | 9.6 | 224705.8 | -0226.0 | 5939 | 10. | 231342.0 | -0250.1 | 6029 | 10. | 233724.1 | -0209.2 | 20   | 6.7 | 00731.1  | -0349.8 |
| 5850 | 9.7 | 224722.7 | -0255.9 | 5940 | 9.8 | 231355.3 | -0243.9 | 6030 | 9.9 | 233732.1 | -0238.8 | 21   | 9.5 | 00733.7  | -0336.5 |
| 5851 | 9.4 | 224731.6 | -0209.2 | 5941 | 10. | 231358.0 | -0204.9 | 6031 | 9.5 | 233757.2 | -0257.0 | 22   | 8.9 | 00802.3  | -0334.8 |
| 5852 | 9.4 | 224750.3 | -0238.1 | 5942 | 8.5 | 231403.7 | -0225.3 | 6032 | 8.9 | 233758.8 | -0245.0 | 23   | 10. | 00807.5  | -0334.3 |
| 5853 | 8.8 | 224755.1 | -0206.7 | 5943 | 8.7 | 231436.7 | -0237.0 | 6033 | 9.7 | 233848.1 | -0240.0 | 24   | 10. | 00817.2  | -0313.3 |
| 5854 | 10. | 224813.7 | -0240.9 | 5944 | 9.0 | 231517.2 | -0215.9 | 6034 | 9.1 | 233908.3 | -0219.9 | 25   | 9.5 | 00818.0  | -0340.5 |
| 5855 | 9.5 | 224913.2 | -0220.6 | 5945 | 9.3 | 231531.7 | -0225.8 | 6035 | 9.9 | 233912.4 | -0247.9 | 26   | 9.8 | 00818.2  | -0317.1 |
| 5856 | 9.1 | 224936.9 | -0237.8 | 5946 | 9.5 | 231552.0 | -0223.3 | 6036 | 9.5 | 233935.6 | -0223.4 | 27   | 9.8 | 00908.7  | -0301.5 |
| 5857 | 9.1 | 224947.8 | -0211.3 | 5947 | 9.1 | 231519.2 | -0206.8 | 6037 | 8.8 | 233956.4 | -0218.7 | 28   | 10. | 00919.0  | -0310.8 |
| 5858 | 6.8 | 225055.1 | -0210.7 | 5948 | 10. | 231637.0 | -0203.7 | 6038 | 9.0 | 234003.2 | -0257.2 | 29   | 9.4 | 00923.6  | -0303.1 |
| 5859 | 10. | 225151.8 | -0232.1 | 5949 | 10. | 231649.0 | -0234.9 | 6039 | 9.5 | 234006.1 | -0236.4 | 30   | 9.0 | 01006.5  | -0341.3 |
| 5860 | 9.6 | 225201.2 | -0254.2 | 5950 | 10. | 231658.0 | -0232.7 | 6040 | 9.5 | 234034.1 | -0205.1 | 31   | 9.5 | 01046.4  | -0300.2 |
| 5861 | 9.0 | 225248.8 | -0257.8 | 5951 | 7.8 | 231710.7 | -0231.8 | 6041 | 9.5 | 234049.1 | -0236.3 | 32   | 9.4 | 01055.3  | -0325.5 |
| 5862 | 9.5 | 225303.6 | -0211.3 | 5952 | 9.0 | 231728.3 | -0249.0 | 6042 |     |          |         |      |     |          |         |



-03 50 Oh17m

50 9.6 01729.5 -0329.1  
51 9.5 01905.5 -0327.5  
52 9.4 01907.0 -0329.1  
53 9.2 01927.0 -0348.6  
54 9.0 02103.1 -0318.5  
55 9.3 02154.8 -0338.5  
56 9.5 02158.4 -0308.0  
57 7.1 02213.5 -0338.5  
58 9.6 02240.5 -0334.4  
59 9.0 02324.7 -0326.6

60 9.5 02335.7 -0311.0  
61 8.7 02351.1 -0341.9  
62 9.3 02414.1 -0314.9  
63 9.5 02532.0 -0349.0  
64 8.3 02615.6 -0332.1  
65 9.6 02627.3 -0302.8  
66 9.4 02628.9 -0359.6  
67 8.5 02650.8 -0311.6  
68 9.3 02716.0 -0321.6  
69 8.8 02752.2 -0334.5

70 10. 02820.8 -0320.7  
71 9.1 02843.6 -0306.5  
72 9.4 02911.4 -0315.9  
73 9.4 02929.0 -0340.1  
74 9.8 03007.2 -0303.4  
75 9.4 03053.5 -0326.1  
76 9.4 03056.0 -0359.0  
77 9.5 03122.3 -0359.7  
78 9.5 03154.9 -0338.3  
79 8.0 03213.9 -0352.6

80 8.8 03241.5 -0334.6  
81 9.5 03248.9 -0303.1  
82 9.5 03250.6 -0313.6  
83 9.5 03309.0 -0340.5  
84 9.3 03328.6 -0306.6  
85 9.5 03408.9 -0310.6  
86 8.3 03445.3 -0350.5  
87 9.0 03513.6 -0300.3  
88 9.3 03524.9 -0338.2  
89 9.6 03601.0 -0340.4

90 9.5 03607.1 -0346.7  
91 8.9 03626.4 -0352.4  
92 8.8 03644.4 -0302.3  
93 9.5 03658.3 -0312.9  
94 9.6 03711.6 -0301.9  
95 9.3 03720.4 -0324.4  
96 9.5 03742.3 -0309.7  
97 9.0 03829.3 -0314.6  
98 9.0 03919.4 -0318.6  
99 7.0 04012.8 -0306.6

100 9.1 04025.2 -0359.8  
101 9.4 04037.0 -0352.0  
102 9.3 04039.4 -0322.9  
103 9.5 04131.7 -0331.4  
104 9.3 04134.9 -0331.7  
105 9.0 04214.0 -0349.5  
106 9.5 04220.0 -0302.8  
107 9.3 04252.9 -0314.2  
108 10. 04256.5 -0314.4  
109 9.1 04327.4 -0308.2

110 9.1 04328.4 -0347.5  
111 9.4 04350.3 -0303.3  
112 9.2 04353.4 -0359.1  
113 7.3 04409.4 -0356.0  
114 9.0 04458.5 -0316.8  
115 9.1 04501.5 -0342.9  
116 9.6 04508.2 -0355.6  
117 9.5 04516.4 -0339.7  
118 9.5 04529.0 -0345.0  
119 8.8 04530.2 -0326.1

120 9.4 04604.9 -0340.8  
121 9.3 04628.4 -0314.1  
122 9.5 04639.0 -0352.0  
123 9.2 04656.9 -0328.4  
124 9.3 04733.5 -0346.4  
125 9.5 04742.6 -0320.9  
126 9.2 04749.9 -0346.7  
127 10. 04754.6 -0302.1  
128 9.5 04800.9 -0329.5  
129 9.5 04802.0 -0319.5

130 9.9 04840.3 -0334.3  
131 9.3 04858.7 -0334.9  
132 7.0 04923.6 -0330.9  
133 9.1 04928.9 -0309.9  
134 9.5 05039.5 -0345.2  
135 8.5 05049.6 -0321.7  
136 7.8 05139.4 -0314.1  
137 8.9 05148.0 -0311.0  
138 9.5 05200.9 -0359.9  
139 9.4 05243.0 -0330.8

140 9.8 05421.7 -0320.7  
141 10. 05432.4 -0307.2  
142 9.8 05453.4 -0332.2  
143 9.7 05557.4 -0335.5  
144 9.6 05558.4 -0323.2  
145 9.3 05611.7 -0316.6  
146 8.8 05705.3 -0308.6  
147 9.9 05737.3 -0328.9  
148 9.5 05811.1 -0341.6  
149 9.7 05836.8 -0312.5

150 9.6 05845.1 -0304.9  
151 9.5 05859.8 -0341.4  
152 9.4 05948.5 -0318.4  
153 8.0 10018.5 -0331.0  
154 8.8 10052.2 -0347.4  
155 9.5 10117.0 -0336.4  
156 9.9 10129.9 -0302.6  
157 9.5 10139.1 -0340.5  
158 8.5 10147.5 -0339.7  
159 9.2 10242.0 -0350.6

160 9.1 10337.7 -0348.7  
161 6.2 10420.6 -0301.5  
162 9.3 10451.5 -0346.6  
163 9.4 10454.5 -0353.4  
164 7.5 10559.2 -0319.4  
165 9.4 10723.4 -0353.0  
166 9.5 10723.6 -0317.1  
167 9.5 10745.1 -0343.7  
168 9.2 10746.9 -0331.5  
169 9.9 10810.1 -0336.6

170 9.7 10815.4 -0333.7  
171 10. 10913.6 -0302.8  
172 5.7 10914.5 -0315.5  
173 8.5 10917.3 -0326.9  
174 7.0 10933.7 -0302.5  
175 9.7 11017.6 -0336.4  
176 9.4 11137.5 -0348.4  
177 8.9 11149.6 -0347.2  
178 9.5 11226.0 -0317.6  
179 8.7 11234.9 -0305.0

180 9.2 11240.5 -0326.1  
181 8.1 11245.7 -0315.9  
182 9.7 11345.8 -0339.0  
183 9.9 11434.5 -0356.0  
184 9.5 11445.7 -0356.5  
185 9.0 11450.6 -0330.1  
186 9.0 11509.8 -0357.9  
187 8.8 11529.1 -0346.6  
188 8.8 11539.3 -0323.7  
189 9.0 11628.0 -0343.7

190 10. 11631.4 -0336.3  
191 8.0 11658.7 -0313.5  
192 9.5 11707.4 -0320.3  
193 9.3 11714.8 -0312.1  
194 9.3 11726.9 -0325.3  
195 5.8 11726.9 -0336.1  
196 9.7 11738.6 -0327.6  
197 10. 11901.7 -0327.5  
198 9.0 11910.9 -0314.7  
199 9.6 11917.8 -0319.6

200 9.5 11922.4 -0342.3  
201 9.1 11941.3 -0301.1  
202 9.6 12005.5 -0316.1  
203 10. 12140.4 -0320.2  
204 8.3 12158.3 -0357.3  
205 10. 12158.7 -0352.9  
206 9.8 12206.9 -0359.5  
207 9.0 12209.3 -0323.7  
208 9.5 12254.4 -0338.1  
209 9.2 12307.3 -0354.2

210 9.8 12330.8 -0352.5  
211 8.8 12332.5 -0340.0  
212 9.0 12354.6 -0305.2  
213 8.7 12443.2 -0328.7  
214 9.0 12443.8 -0343.7  
215 9.2 12444.8 -0315.9  
216 9.0 12445.0 -0352.2  
217 9.0 12503.2 -0347.9  
218 9.0 12541.5 -0348.2  
219 9.5 12609.8 -0319.7

220 9.0 12721.7 -0309.4  
221 9.7 12723.8 -0354.7  
222 9.3 12728.3 -0317.1  
223 9.4 12729.2 -0329.6  
224 7.5 12744.8 -0304.6  
225 9.4 12755.8 -0306.7  
226 9.4 12758.5 -0326.3  
227 8.8 12949.3 -0303.0  
228 8.9 12950.0 -0327.4  
229 9.1 13008.2 -0329.8

230 9.1 13011.5 -0307.4  
231 8.8 13145.8 -0300.9  
232 9.8 13201.3 -0347.5  
233 8.3 13216.8 -0315.7  
234 9.0 13235.8 -0312.7  
235 8.8 13239.1 -0340.7  
236 9.2 13240.9 -0357.2  
237 9.5 13259.5 -0337.4  
238 9.8 13302.4 -0335.6  
239 7.0 13325.0 -0321.1

240 8.3 13415.9 -0351.4  
241 8.0 13416.6 -0341.5  
242 9.6 13439.1 -0309.4  
243 9.6 13443.2 -0347.1  
244 9.4 13524.0 -0323.5  
245 9.5 13620.3 -0354.6  
246 9.5 13622.1 -0321.8  
247 9.8 13731.7 -0330.1  
248 9.8 13738.0 -0324.9  
249 9.9 13739.7 -0329.4

250 7.3 13800.5 -0353.6  
251 10. 13810.9 -0307.8  
252 9.4 13822.7 -0344.6  
253 9.3 13902.7 -0307.4  
254 8.2 13909.8 -0303.8  
255 9.5 13914.4 -0318.7  
256 10. 13920.9 -0304.8  
257 10. 13939.6 -0339.1  
258 7.8 13942.4 -0350.2  
259 9.8 13954.6 -0300.9

260 8.2 14011.6 -0338.4  
261 9.2 14012.3 -0304.6  
262 8.4 14017.9 -0357.8  
263 10. 14134.2 -0351.3  
264 9.5 14143.5 -0318.9  
265 9.5 14308.5 -0343.9  
266 9.6 14329.0 -0354.8  
267 9.2 14358.3 -0350.4  
268 7.0 14415.0 -0321.3  
269 9.1 14444.5 -0321.2

270 9.5 14458.1 -0334.2  
271 9.2 14509.0 -0300.7  
272 9.5 14520.0 -0313.6  
273 8.7 14526.4 -0350.1  
274 9.5 14548.0 -0316.6  
275 9.5 14602.3 -0302.5  
276 9.3 14654.0 -0313.0  
277 9.6 14658.0 -0330.1  
278 9.2 14711.9 -0301.4  
279 9.7 14725.6 -0300.5

280 9.6 14740.4 -0345.4  
281 9.0 14749.4 -0345.2  
282 9.0 14752.3 -0323.2  
283 9.0 14836.1 -0359.8  
284 9.1 14900.5 -0307.1  
285 9.1 14955.1 -0358.1  
286 9.2 15015.0 -0331.8  
287 10. 15032.0 -0359.7  
288 8.8 15058.5 -0311.3  
289 5.7 15111.2 -0359.0

290 8.8 15134.5 -0306.8  
291 9.5 15143.7 -0333.1  
292 9.8 15227.5 -0314.9  
293 9.8 15244.0 -0352.3  
294 9.5 15254.6 -0357.2  
295 9.9 15304.8 -0302.7  
296 8.8 15310.8 -0338.9  
297 9.0 15325.5 -0341.5  
298 10. 15327.2 -0332.8  
299 9.6 15339.1 -0309.8

300 7.7 15343.6 -0312.0  
301 8.5 15444.1 -0317.1  
302 10. 15502.0 -0352.5  
303 9.5 15514.7 -0301.1  
304 7.0 15530.5 -0304.3  
305 9.5 15543.8 -0335.4  
306 9.4 15552.4 -0339.0  
307 9.1 15557.8 -0339.0  
308 7.8 15634.5 -0324.4  
309 9.4 15703.2 -0356.8

310 10. 15718.5 -0323.1  
311 9.5 15840.1 -0308.3  
312 9.6 15845.7 -0333.7  
313 9.5 15848.8 -0304.9  
314 9.2 15914.7 -0355.6  
315 9.7 15938.5 -0308.9  
316 9.3 20022.4 -0300.8  
317 9.6 20041.0 -0358.5  
318 10. 20057.4 -0344.0  
319 9.0 20106.8 -0326.9

-03 409 2h29m

320 8.5 20129.6 -0353.7  
321 10. 20134.3 -0342.5  
322 9.5 20142.5 -0300.9  
323 9.3 20148.4 -0340.1  
324 7.1 20149.6 -0301.1  
325 9.1 20249.2 -0336.8  
326 9.4 20313.1 -0314.5  
327 8.8 20329.6 -0330.3  
328 9.3 20333.7 -0311.8  
329 9.2 20359.4 -0326.0

330 10. 20403.5 -0309.6  
331 9.5 20435.1 -0306.0  
332 9.0 20435.6 -0353.7  
333 9.7 20503.5 -0324.8  
334 9.6 20515.7 -0317.1  
335 8.9 20523.3 -0304.7  
336 5.9 20523.9 -0304.3  
337 9.8 20550.6 -0343.7  
338 9.5 20551.2 -0322.3  
339 9.0 20613.7 -0319.1

340 7.7 20623.0 -0342.7  
341 9.2 20626.5 -0344.0  
342 9.3 20826.8 -0317.3  
343 8.9 20833.7 -0311.5  
344 9.1 20929.8 -0336.6  
345 8.5 20930.9 -0334.8  
346 9.3 20947.9 -0302.5  
347 9.0 21034.6 -0327.2  
348 9.9 21037.2 -0330.1  
349 9.7 21043.9 -0305.4

350 9.8 21114.1 -0359.2  
351 9.8 21114.3 -0346.6  
352 9.6 21143.5 -0303.8  
353 30.0 21201.5 -0338.2  
354 9.3 21204.1 -0356.5  
355 9.0 21211.4 -0338.2  
356 9.4 21243.8 -0327.8  
357 9.7 21256.1 -0332.4  
358 9.8 21306.5 -0301.9  
359 9.7 21313.4 -0304.0

360 9.3 21332.9 -0310.9  
361 9.9 21408.7 -0351.6  
362 9.2 21414.9 -0329.1  
363 8.9 21417.9 -0337.6  
364 9.0 21431.8 -0354.1  
365 10. 21512.3 -0328.0  
366 9.8 21523.4 -0339.0  
367 9.3 21529.9 -0329.2  
368 9.6 21531.0 -0351.6  
369 9.3 21548.8 -0355.7

370 9.8 21650.1 -0330.9  
371 8.8 21654.6 -0354.0  
372 8.2 21703.8 -0345.2  
373 9.1 21708.0 -0339.4  
374 6.7 21739.2 -0326.2  
375 8.6 21754.8 -0352.3  
376 9.8 21807.9 -0347.6  
377 10. 21810.7 -0332.5  
378 8.9 21814.1 -0307.8  
379 9.8 21853.5 -0329.0

380 9.3 21853.6 -0332.8  
381 9.2 21855.5 -0320.3  
382 9.5 21934.7 -0302.4  
383 8.8 21955.9 -0354.9  
384 8.1 22008.8 -0322.2  
385 9.8 22126.7 -0309.1  
386 10. 22155.0 -0312.2  
387 9.4 22236.3 -0357.7  
388 9.2 22239.7 -0357.9  
389 8.1 22243.9 -0302.7

390 8.5 22328.6 -0350.9  
391 9.5 22338.4 -0342.1  
392 9.3 22340.2 -0305.4  
393 9.7 22353.1 -0306.7  
394 9.5 22405.7 -0356.1  
395 9.8 22448.2 -0354.7  
396 8.8 22549.5 -0302.6  
397 9.5 22611.0 -0316.6  
398 9.5 22615.9 -0314.4  
399 10. 22636.4 -0336.2

400 9.0 22639.7 -0350.5  
401 9.5 22650.8 -0357.3  
402 9.8 22706.7 -0321.8  
403 9.1 22714.2 -0325.9  
404 8.7 22722.2 -0326.1  
405 9.1 22745.5 -0343.9  
406 8.1 22803.0 -0305.6  
407 8.3 22832.9 -0338.6  
408 9.9 22858.7 -0358.0  
409 9.6 22920.3 -0357.4



-03 410 2h29m

410 8.3 22921.6 -0347.6  
411 9.1 22931.6 -0323.2  
412 9.3 23025.2 -0312.6  
413 8.8 23026.0 -0303.5  
414 9.8 23052.9 -0326.5  
415 8.5 23139.4 -0312.6  
416 9.0 23143.5 -0349.3  
417 9.0 23244.0 -0333.5  
418 9.3 23246.5 -0330.4  
419 9.7 23339.4 -0320.8

420 9.8 23400.5 -0322.1  
421 6.3 23420.6 -0350.3  
422 9.8 23449.4 -0312.7  
423 9.1 23456.8 -0339.4  
424 9.8 23457.2 -0305.0  
425 9.8 23514.5 -0348.9  
426 6.7 23609.1 -0309.0  
427 9.3 23649.5 -0323.5  
428 9.8 23652.0 -0335.9  
429 9.6 23700.0 -0306.5

430 9.8 23742.0 -0303.0  
431 9.4 23755.9 -0339.2  
432 9.2 23838.9 -0327.2  
433 9.2 23845.5 -0326.0  
434 9.8 23854.9 -0312.1  
435 9.5 23915.5 -0347.2  
436 8.6 23950.6 -0350.1  
437 3.5 24007.7 -0354.2  
438 9.0 24014.8 -0311.6  
439 3.6 24022.9 -0340.8

440 1.3 24023.9 -0338.3  
441 1.8 24030.8 -0302.2  
442 5.8 24042.5 -0319.2  
443 10. 24048.0 -0342.7  
444 9.3 24127.4 -0338.0  
445 9.4 24131.9 -0349.9  
446 9.3 24152.4 -0312.3  
447 9.2 24213.5 -0300.9  
448 9.8 24252.0 -0317.3  
449 9.8 24309.8 -0305.5

450 9.3 24312.4 -0341.1  
451 9.1 24340.0 -0320.0  
452 9.1 24402.6 -0327.5  
453 7.1 24404.7 -0335.8  
454 9.1 24415.6 -0354.0  
455 9.0 24457.5 -0344.0  
456 8.9 24554.5 -0321.4  
457 10. 24635.7 -0355.0  
458 9.6 24707.8 -0359.7  
459 8.0 24740.7 -0353.8

460 9.8 24754.2 -0307.8  
461 9.3 24850.9 -0335.2  
462 9.5 24851.8 -0356.1  
463 9.5 24923.1 -0342.1  
464 9.8 24933.6 -0317.4  
465 9.5 24938.5 -0341.2  
466 9.4 24943.8 -0300.6  
467 9.8 24952.4 -0308.0  
468 9.8 25023.0 -0315.6  
469 9.0 25118.0 -0337.0

470 5.5 25124.1 -0321.7  
471 9.6 25126.7 -0327.5  
472 9.6 25154.6 -0330.2  
473 9.0 25214.0 -0336.5  
474 9.1 25220.8 -0356.1  
475 6.2 25221.3 -0302.6  
476 8.6 25221.8 -0307.1  
477 9.5 25320.0 -0338.0  
478 6.8 25333.4 -0327.1  
479 10. 25333.8 -0352.7

480 10. 25416.4 -0347.8  
481 9.6 25425.0 -0326.0  
482 8.5 25443.4 -0331.1  
483 8.3 25539.6 -0334.2  
484 9.8 25540.5 -0349.6  
485 9.5 25609.0 -0300.8  
486 9.1 25620.1 -0312.9  
487 9.8 25666.7 -0346.6  
488 10. 25634.2 -0346.4  
489 9.8 25658.4 -0308.4

490 9.2 25709.7 -0304.3  
491 9.8 25720.6 -0300.5  
492 9.8 25802.1 -0314.0  
493 8.9 25825.8 -0329.5  
494 9.5 25828.0 -0349.3  
495 9.6 25905.5 -0357.6  
496 9.6 25910.0 -0347.4  
497 9.6 25910.1 -0349.7  
498 9.8 25912.3 -0302.5  
499 9.5 26003.4 -0332.3

500 9.4 30045.5 -0310.1  
501 9.8 30140.9 -0325.1  
502 8.6 30210.7 -0347.4  
503 9.8 30245.2 -0343.4  
504 9.3 30310.4 -0326.1  
505 9.5 30313.3 -0316.5  
506 9.3 30319.4 -0326.1  
507 9.0 30338.9 -0314.4  
508 9.6 30402.1 -0322.1  
509 8.9 30406.3 -0334.9

510 9.9 30430.1 -0336.4  
511 10. 30451.4 -0305.4  
512 8.2 30511.8 -0333.1  
513 8.7 30525.6 -0314.9  
514 8.7 30526.4 -0327.4  
515 9.8 30617.4 -0302.7  
516 9.5 30617.8 -0312.2  
517 9.0 30637.5 -0332.4  
518 9.7 30646.0 -0309.7  
519 9.0 30657.4 -0312.2

520 9.7 30735.9 -0334.9  
521 9.3 30739.1 -0302.9  
522 9.8 30832.7 -0333.0  
523 9.8 30857.8 -0340.2  
524 8.6 30928.2 -0307.4  
525 8.0 30928.5 -0354.0  
526 9.1 30942.9 -0347.9  
527 10. 30946.8 -0343.4  
528 10. 30951.5 -0356.8  
529 10. 31012.7 -0329.6

530 9.9 31025.6 -0358.5  
531 9.6 31033.3 -0338.9  
532 9.8 31111.7 -0320.4  
533 8.8 31157.3 -0342.2  
534 7.3 31142.2 -0321.9  
535 9.2 31203.9 -0351.2  
536 9.8 31215.1 -0313.9  
537 9.3 31244.6 -0300.8  
538 8.8 31249.5 -0332.8  
539 9.4 31329.8 -0342.1

540 8.1 31333.2 -0338.1  
541 9.8 31357.7 -0319.6  
542 8.9 31507.5 -0327.5  
543 9.3 31510.3 -0325.3  
544 9.5 31516.8 -0317.2  
545 10. 31517.4 -0309.0  
546 9.1 31612.2 -0325.0  
547 9.2 31659.7 -0321.8  
548 9.3 31757.8 -0319.1  
549 9.1 31847.5 -0352.8

550 9.8 31900.4 -0332.9  
551 9.5 31924.1 -0352.2  
552 9.1 31928.2 -0358.8  
553 8.9 31950.5 -0347.2  
554 8.0 32003.9 -0337.3  
555 9.7 32008.4 -0311.8  
556 10. 32009.2 -0307.2  
557 9.5 32017.5 -0353.6  
558 9.0 32105.9 -0324.7  
559 9.6 32118.4 -0334.0

560 8.6 32124.5 -0343.1  
561 9.8 32159.7 -0344.0  
562 9.8 32224.7 -0312.9  
563 9.1 32231.7 -0342.9  
564 8.7 32258.0 -0328.8  
565 8.5 32408.3 -0324.1  
566 9.7 32435.6 -0354.7  
567 9.7 32449.3 -0329.6  
568 9.4 32451.7 -0355.0  
569 9.8 32453.2 -0311.6

570 8.2 32509.8 -0348.3  
571 8.8 32544.6 -0325.6  
572 8.7 32611.4 -0302.2  
573 9.7 32635.2 -0300.5  
574 8.2 32708.5 -0342.7  
575 9.5 32732.6 -0338.9  
576 7.4 32737.0 -0353.8  
577 9.6 32740.2 -0304.9  
578 9.1 32802.3 -0319.5  
579 9.2 32848.6 -0349.3

580 9.5 32907.9 -0327.1  
581 8.9 32916.4 -0317.9  
582 9.8 32931.1 -0303.2  
583 9.8 32938.7 -0308.6  
584 9.4 33001.5 -0305.2  
585 9.4 33010.6 -0350.9  
586 10. 33027.1 -0341.4  
587 9.2 33035.4 -0300.0  
588 8.5 33058.7 -0302.7  
589 9.4 33106.1 -0345.7

590 9.3 33215.2 -0320.5  
591 6.3 33222.6 -0357.0  
592 7.2 33300.7 -0341.3  
593 9.5 33319.1 -0329.0  
594 9.6 33340.4 -0322.5  
595 9.8 33353.9 -0317.3  
596 9.8 33406.9 -0321.4  
597 8.0 33424.8 -0318.7  
598 9.7 33446.2 -0303.9  
599 9.1 33447.6 -0350.1

600 9.5 33510.0 -0327.4  
601 9.4 33619.6 -0330.1  
602 9.2 33627.4 -0329.9  
603 9.6 33644.1 -0304.5  
604 9.4 33706.2 -0308.8  
605 8.9 33715.1 -0357.6  
606 9.6 33725.1 -0355.6  
607 9.9 33807.6 -0344.9  
608 9.6 33809.6 -0348.0  
609 9.6 33851.4 -0300.9

610 9.6 33852.4 -0328.3  
611 9.6 33958.5 -0325.3  
612 9.0 34000.7 -0344.8  
613 9.5 34002.1 -0348.1  
614 8.2 34027.5 -0301.3  
615 8.9 34037.5 -0309.3  
616 7.2 34042.4 -0318.7  
617 9.1 34046.4 -0339.6  
618 9.3 34208.5 -0302.2  
619 9.0 34227.9 -0323.1

620 9.4 34237.4 -0344.0  
621 9.5 34303.8 -0321.9  
622 9.6 34323.0 -0321.3  
623 9.8 34335.5 -0312.5  
624 9.9 34448.7 -0300.2  
625 8.5 34440.4 -0351.4  
626 9.8 34529.9 -0318.6  
627 9.5 34546.1 -0354.9  
628 9.8 34558.2 -0358.9  
629 8.3 34630.7 -0343.5

630 9.4 34619.8 -0302.9  
631 5.0 34700.4 -0323.3  
632 9.5 34701.7 -0320.5  
633 9.5 34706.8 -0316.5  
634 9.5 34711.3 -0349.6  
635 10. 34721.3 -0317.8  
636 10. 34802.0 -0303.1  
637 9.9 34805.4 -0302.4  
638 9.2 34821.6 -0333.0  
639 9.2 34830.3 -0341.1

640 8.7 34842.2 -0332.6  
641 9.8 34925.8 -0331.4  
642 10. 34942.0 -0317.0  
643 9.5 34942.7 -0330.4  
644 10. 34947.1 -0321.5  
645 8.9 34959.4 -0332.7  
646 9.7 35017.6 -0320.0  
647 8.8 35024.2 -0317.8  
648 8.8 35034.1 -0300.6  
649 9.4 35050.9 -0340.9

650 7.1 35120.2 -0304.2  
651 9.0 35124.5 -0304.3  
652 9.7 35127.0 -0342.2  
653 9.4 35130.5 -0338.3  
654 9.4 35205.3 -0343.0  
655 9.2 35224.4 -0353.1  
656 9.8 35250.5 -0325.4  
657 9.6 35324.6 -0310.4  
658 9.0 35346.9 -0354.9  
659 9.0 35411.5 -0303.1

660 9.1 35420.4 -0344.7  
661 8.8 35421.4 -0318.8  
662 9.4 35430.3 -0302.6  
663 10. 35434.5 -0340.0  
664 9.8 35441.9 -0345.4  
665 9.8 35452.5 -0303.4  
666 10. 35500.3 -0346.5  
667 9.5 35502.1 -0341.5  
668 9.7 35528.0 -0308.8  
669 9.5 35530.4 -0347.2

670 9.2 35549.4 -0349.0  
671 10. 35623.9 -0333.6  
672 10. 35624.0 -0318.4  
673 9.0 35650.2 -0301.3  
674 10. 35653.1 -0315.9  
675 9.3 35700.0 -0308.2  
676 8.0 35716.9 -0344.4  
677 9.0 35733.8 -0333.7  
678 9.4 35749.0 -0352.9  
679 10. 35805.9 -0317.7

680 8.8 35826.6 -0310.2  
681 10. 35836.2 -0313.6  
682 9.1 35850.4 -0320.8  
683 10. 35857.7 -0300.8  
684 9.3 35938.3 -0304.9  
685 8.0 40016.0 -0323.3  
686 9.5 40032.2 -0349.0  
687 9.6 40045.6 -0322.1  
688 9.0 40119.3 -0356.3  
689 9.1 40120.1 -0351.0

690 8.3 40122.2 -0304.4  
691 9.5 40124.4 -0326.9  
692 9.5 40205.8 -0328.3  
693 10. 40217.3 -0321.2  
694 9.1 40224.9 -0348.0  
695 9.0 40278.9 -0341.0  
696 6.5 40234.8 -0357.2  
697 9.3 40245.5 -0307.1  
698 9.5 40258.1 -0329.0  
699 8.8 40301.8 -0331.2

700 9.5 40320.4 -0335.1  
701 9.1 40337.1 -0303.9  
702 9.0 40344.9 -0345.4  
703 8.5 40400.5 -0320.6  
704 8.5 40412.4 -0338.2  
705 10. 40423.6 -0324.4  
706 10. 40424.1 -0301.1  
707 9.1 40430.3 -0352.7  
708 9.5 40451.3 -0342.5  
709 9.4 40458.0 -0321.2

710 9.4 40532.3 -0351.4  
711 9.6 40537.1 -0304.8  
712 9.3 40601.7 -0354.9  
713 9.2 40611.8 -0308.9  
714 10. 40620.2 -0308.9  
715 9.5 40628.4 -0324.7  
716 9.5 40629.3 -0350.0  
717 9.8 40630.0 -0358.9  
718 9.3 40642.4 -0329.0  
719 9.4 40648.6 -0331.4

720 9.4 40659.2 -0307.2  
721 9.8 40716.3 -0351.5  
722 9.6 40731.1 -0305.5  
723 9.5 40733.8 -0356.7  
724 9.4 40745.8 -0340.8  
725 8.4 40757.6 -0332.1  
726 9.3 40757.8 -0356.8  
727 8.5 40820.3 -0353.5  
728 9.5 40846.8 -0350.8  
729 10. 40852.7 -0300.2

730 8.6 40856.8 -0329.8  
731 9.5 40912.5 -0330.3  
732 8.9 40931.3 -0328.8  
733 9.3 40950.8 -0326.1  
734 9.5 41002.3 -0359.0  
735 10. 41004.5 -0313.1  
736 9.3 41017.1 -0303.2  
737 9.3 41102.9 -0335.4  
738 9.8 41115.3 -0356.8  
739 9.2 41125.5 -0303.5

740 8.9 41128.5 -0303.1  
741 9.4 41134.8 -0329.9  
742 9.5 41147.2 -0343.8  
743 9.7 41151.0 -0312.7  
744 8.7 41203.4 -0339.4  
745 8.8 41214.1 -0328.1  
746 9.2 41221.3 -0357.3  
747 9.6 41231.7 -0314.8  
748 9.6 41235.0 -0318.6  
749 9.3 41249.9 -0356.0

750 9.3 41242.2 -0321.2  
751 9.8 41243.3 -0330.5  
752 9.2 41458.9 -0327.6  
753 9.1 41506.2 -0301.0  
754 9.5 41520.3 -0321.2  
755 9.8 41521.3 -0334.5  
756 9.6 41531.5 -0306.0  
757 9.2 41535.4 -0352.1  
758 9.5 41542.3 -0353.7  
759 8.6 41610.9 -0350.1

760 10. 41624.2 -0302.7  
761 9.8 41632.1 -0349.5  
762 9.0 41632.6 -0317.4  
763 9.6 41635.5 -0314.0  
764 9.4 41648.2 -0323.3  
765 9.3 41652.4 -0357.0  
766 9.4 41710.0 -0316.0  
767 9.5 41720.9 -0352.8  
768 9.4 41722.6 -0349.4  
769 9.5 41729.9 -0310.6

-03 769 4h17m



-03 770 4h17m

770 8.8 41749.4 -0301.1  
771 9.7 41751.5 -0304.5  
772 9.8 41754.8 -0308.2  
773 9.6 41816.6 -0303.4  
774 9.5 41816.2 -0347.0  
775 8.8 41837.9 -0314.3  
776 9.5 41848.9 -0311.5  
777 8.8 41849.9 -0309.7  
778 8.6 41864.9 -0307.2  
779 9.7 41869.5 -0308.0

780 8.3 41952.3 -0331.3  
781 9.3 42025.5 -0347.1  
782 9.6 42036.5 -0324.4  
783 9.5 42047.1 -0325.5  
784 9.2 42049.4 -0337.9  
785 9.1 42054.8 -0338.3  
786 9.8 42107.9 -0311.7  
787 9.1 42112.1 -0318.1  
788 9.5 42118.9 -0304.5  
789 9.1 42123.0 -0334.8

790 9.2 42139.3 -0307.0  
791 9.6 42141.5 -0237.9  
792 9.2 42205.7 -0309.6  
793 9.6 42206.9 -0309.1  
794 9.0 42227.4 -0304.4  
795 8.9 42245.4 -0307.8  
796 9.4 42249.9 -0304.7  
797 9.8 42259.5 -0306.0  
798 10.1 42300.7 -0348.2  
799 9.5 42312.5 -0348.0

800 9.1 42332.6 -0317.4  
801 9.6 42346.0 -0335.9  
802 9.2 42425.6 -0315.2  
803 9.3 42434.6 -0308.0  
804 9.2 42442.8 -0302.0  
805 9.3 42452.8 -0327.7  
806 9.5 42454.4 -0332.3  
807 9.6 42510.6 -0331.2  
808 9.8 42522.2 -0302.6  
809 5.6 42522.5 -0339.8

810 9.4 42529.6 -0332.0  
811 8.7 42535.5 -0319.7  
812 8.9 42566.6 -0336.0  
813 9.5 42588.9 -0317.3  
814 9.6 42611.4 -0302.0  
815 9.7 42617.5 -0315.3  
816 9.5 42630.8 -0335.1  
817 9.8 42636.1 -0336.0  
818 9.0 42642.6 -0305.0  
819 9.4 42648.0 -0305.7

820 9.5 42652.4 -0342.3  
821 10.1 42708.4 -0323.8  
822 9.2 42737.7 -0316.6  
823 9.5 42747.9 -0329.2  
824 8.3 42747.5 -0339.1  
825 10.1 42752.7 -0301.8  
826 10.1 42802.6 -0317.3  
827 9.0 42814.9 -0327.8  
828 9.8 42818.3 -0304.0  
829 9.1 42822.5 -0304.1

830 6.2 42848.4 -0304.4  
831 9.1 42850.5 -0342.1  
832 8.3 42861.2 -0318.2  
833 9.5 42902.2 -0329.4  
834 3.5 42904.5 -0329.0  
835 9.8 42909.8 -0307.5  
836 9.8 42913.3 -0302.5  
837 9.6 42917.0 -0318.5  
838 9.5 42929.0 -0344.6  
839 9.6 42939.2 -0307.0

840 9.3 43009.1 -0339.2  
841 9.2 43031.4 -0319.0  
842 9.4 43042.9 -0303.4  
843 9.8 43045.9 -0307.9  
844 9.3 43055.5 -0305.9  
845 9.6 43059.5 -0304.5  
846 9.4 43103.8 -0309.3  
847 9.7 43111.4 -0312.7  
848 9.5 43116.2 -0304.9  
849 9.8 43118.1 -0322.6

850 9.6 43129.6 -0323.5  
851 9.8 43138.3 -0349.7  
852 9.4 43142.0 -0317.5  
853 9.6 43221.0 -0334.5  
854 9.2 43223.2 -0336.7  
855 8.5 43228.2 -0340.3  
856 9.3 43229.1 -0321.9  
857 7.3 43241.5 -0348.0  
858 9.5 43412.5 -0302.8  
859 9.8 43422.9 -0315.0

860 9.8 43456.2 -0337.9  
861 9.5 43457.3 -0306.2  
862 8.8 43501.0 -0343.7  
863 9.5 43519.9 -0311.4  
864 8.4 43539.7 -0336.2  
865 9.8 43551.2 -0324.6  
866 9.3 43601.8 -0341.5  
867 10.1 43612.1 -0316.3  
868 9.1 43626.0 -0326.3  
869 8.0 43651.8 -0326.3

870 9.4 43656.4 -0359.3  
871 9.1 43711.0 -0315.0  
872 9.5 43726.1 -0318.1  
873 9.8 43742.2 -0342.8  
874 9.0 43752.0 -0317.4  
875 8.6 43756.6 -0320.8  
876 3.5 43815.3 -0311.3  
877 9.1 43820.0 -0310.7  
878 9.5 43827.2 -0332.2  
879 9.0 43830.5 -0311.5

880 9.3 43831.0 -0333.9  
881 8.0 43835.4 -0310.6  
882 9.8 43858.9 -0349.1  
883 8.6 43901.8 -0358.0  
884 7.2 43907.9 -0313.4  
885 9.4 43923.0 -0342.8  
886 9.0 43926.5 -0355.6  
887 9.6 43938.4 -0355.6  
888 9.7 43950.2 -0329.9  
889 9.3 44032.7 -0329.9

890 9.6 44035.0 -0300.7  
891 9.3 44042.2 -0355.0  
892 9.0 44052.2 -0312.5  
893 9.8 44054.8 -0331.2  
894 9.4 44103.7 -0306.7  
895 9.5 44113.2 -0303.4  
896 9.8 44115.4 -0331.0  
897 8.7 44125.0 -0324.8  
898 10.1 44152.1 -0320.3  
899 9.5 44153.0 -0344.5

900 9.5 44202.5 -0341.7  
901 9.4 44209.4 -0329.6  
902 9.5 44211.1 -0356.0  
903 8.5 44217.0 -0310.9  
904 9.5 44237.0 -0324.9  
905 10.1 44242.8 -0303.6  
906 9.6 44246.0 -0305.1  
907 9.1 44252.0 -0302.9  
908 8.5 44244.7 -0323.7  
909 7.2 44417.1 -0356.8

910 9.2 44419.1 -0350.6  
911 8.5 44421.5 -0312.2  
912 9.3 44430.4 -0325.1  
913 9.5 44443.2 -0315.7  
914 8.0 44449.8 -0357.5  
915 9.7 44459.7 -0305.4  
916 9.1 44464.0 -0328.6  
917 8.0 44469.6 -0325.2  
918 9.5 44489.6 -0319.2  
919 9.6 44494.2 -0308.1

920 9.2 44445.1 -0310.3  
921 9.6 44455.1 -0320.1  
922 9.5 44481.6 -0326.1  
923 9.7 44639.7 -0317.6  
924 10.1 44748.1 -0301.7  
925 9.5 44746.2 -0342.3  
926 9.7 44704.8 -0329.7  
927 8.8 44708.9 -0356.6  
928 6.6 44713.3 -0327.7  
929 9.8 44717.5 -0322.9

930 9.0 44725.7 -0307.6  
931 9.2 44728.9 -0311.8  
932 9.5 44739.9 -0312.5  
933 9.1 44739.0 -0317.6  
934 10.1 44748.1 -0301.7  
935 9.3 44746.2 -0342.3  
936 9.8 44808.7 -0348.3  
937 9.3 44810.5 -0325.2  
938 9.3 44810.8 -0318.4  
939 9.4 44832.1 -0358.2

940 9.6 44834.4 -0349.6  
941 9.5 44844.5 -0331.0  
942 9.4 44855.1 -0319.0  
943 9.5 44859.2 -0345.9  
944 9.0 44925.6 -0321.9  
945 9.1 45000.8 -0349.9  
946 9.1 45001.7 -0302.6  
947 9.7 45011.1 -0322.1  
948 9.8 45012.4 -0348.8  
949 9.8 45020.7 -0304.4

950 9.1 45029.4 -0327.8  
951 9.5 45055.2 -0347.8  
952 9.4 45112.0 -0307.4  
953 7.3 45112.7 -0357.7  
954 9.7 45115.5 -0323.5  
955 9.4 45117.5 -0324.9  
956 9.7 45121.5 -0303.0  
957 9.3 45129.6 -0308.4  
958 9.8 45145.7 -0307.1  
959 9.5 45155.2 -0321.1

960 9.7 45159.4 -0313.8  
961 10.1 45220.2 -0302.1  
962 9.2 45232.5 -0334.6  
963 9.2 45232.9 -0302.7  
964 9.1 45234.5 -0349.5  
965 9.4 45249.6 -0333.2  
966 9.1 45300.8 -0356.1  
967 10.1 45304.6 -0321.9  
968 9.7 45305.6 -0334.3  
969 9.5 45307.4 -0358.9

970 10.1 45314.7 -0304.7  
971 9.5 45318.8 -0323.7  
972 9.6 45319.3 -0355.1  
973 9.0 45337.1 -0329.2  
974 9.8 45342.9 -0316.0  
975 9.4 45343.7 -0351.5  
976 9.4 45405.7 -0326.0  
977 9.4 45411.8 -0325.0  
978 9.7 45421.3 -0307.5  
979 9.8 45431.2 -0348.3

980 9.0 45448.3 -0308.4  
981 10.1 45448.7 -0300.9  
982 9.5 45458.6 -0302.8  
983 9.8 45540.2 -0350.1  
984 9.6 45542.8 -0351.7  
985 8.3 45605.4 -0311.5  
986 9.4 45612.4 -0302.2  
987 9.0 45619.4 -0311.4  
988 9.6 45627.4 -0328.5  
989 9.8 45631.0 -0326.2

990 9.8 45636.4 -0340.7  
991 8.7 45645.6 -0304.4  
992 9.0 45646.2 -0342.3  
993 8.5 45702.8 -0336.6  
994 9.5 45703.0 -0313.3  
995 9.7 45712.6 -0315.3  
996 10.1 45721.9 -0357.2  
997 9.6 45722.7 -0348.0  
998 6.0 45739.2 -0314.5  
999 8.5 45753.3 -0352.7

1000 9.4 45754.2 -0347.4  
1001 9.0 45804.6 -0341.3  
1002 9.1 45823.1 -0335.2  
1003 8.7 45830.8 -0318.1  
1004 9.9 45833.8 -0348.3  
1005 10.1 45836.4 -0308.3  
1006 9.5 45836.9 -0301.4  
1007 9.4 45849.2 -0328.4  
1008 9.5 45850.2 -0332.5  
1009 9.1 45854.1 -0317.1

1010 8.0 45859.3 -0341.2  
1011 8.7 45913.1 -0334.9  
1012 9.4 45933.1 -0317.1  
1013 9.5 45937.4 -0331.3  
1014 8.5 45957.6 -0341.7  
1015 9.0 45959.1 -0317.9  
1016 9.7 50003.6 -0307.6  
1017 9.0 50016.0 -0330.5  
1018 9.5 50017.9 -0326.3  
1019 9.5 50018.8 -0302.3

1020 9.0 50039.9 -0306.8  
1021 9.5 50109.8 -0331.0  
1022 9.2 50111.6 -0347.7  
1023 7.5 50116.7 -0300.1  
1024 7.5 50118.0 -0312.2  
1025 8.0 50124.5 -0330.1  
1026 9.5 50149.5 -0332.3  
1027 9.5 50157.1 -0314.8  
1028 9.5 50256.4 -0331.6  
1029 9.6 50256.4 -0300.9

1030 9.5 50301.4 -0327.1  
1031 9.8 50326.9 -0328.0  
1032 9.2 50413.8 -0337.7  
1033 9.2 50415.2 -0337.1  
1034 9.2 50419.6 -0347.0  
1035 9.5 50447.6 -0350.6  
1036 9.5 50501.7 -0354.6  
1037 8.5 50513.0 -0312.5  
1038 10.1 50522.6 -0329.4  
1039 9.2 50543.4 -0357.7

-03 1129 5h25m

1040 9.0 50551.9 -0308.4  
1041 9.0 50607.2 -0318.6  
1042 7.7 50625.6 -0348.3  
1043 10.1 50646.1 -0314.2  
1044 9.0 50646.6 -0349.2  
1045 9.5 50650.3 -0327.1  
1046 9.5 50802.8 -0359.4  
1047 9.2 50805.9 -0306.6  
1048 9.2 50807.8 -0303.9  
1049 9.3 50809.3 -0331.7

1050 8.0 50811.0 -0332.1  
1051 8.5 50900.6 -0339.7  
1052 9.5 50900.9 -0308.7  
1053 9.8 50911.4 -0329.5  
1054 9.5 50933.5 -0333.2  
1055 9.7 50934.1 -0336.2  
1056 9.5 50949.2 -0322.1  
1057 9.5 51038.4 -0303.8  
1058 9.5 51053.3 -0340.8  
1059 9.1 51057.6 -0341.5

1060 10.1 51141.9 -0305.5  
1061 8.5 51152.1 -0314.0  
1062 9.5 51222.0 -0309.0  
1063 10.1 51245.9 -0305.9  
1064 9.5 51251.7 -0345.8  
1065 9.0 51310.7 -0339.6  
1066 8.9 51314.4 -0325.4  
1067 9.5 51317.0 -0309.9  
1068 9.3 51326.3 -0323.7  
1069 9.5 51338.8 -0356.0

1070 8.5 51355.8 -0300.5  
1071 10.1 51424.0 -0300.4  
1072 9.3 51425.5 -0306.9  
1073 9.5 51432.7 -0340.0  
1074 9.5 51437.4 -0313.9  
1075 8.0 51444.9 -0305.9  
1076 9.5 51448.3 -0323.8  
1077 9.8 51459.7 -0351.1  
1078 9.4 51531.6 -0354.9  
1079 10.1 51539.6 -0359.2

1080 9.5 51542.6 -0335.8  
1081 8.5 51550.8 -0304.1  
1082 10.1 51555.2 -0317.9  
1083 9.0 51565.1 -0315.2  
1084 10.1 51624.6 -0358.4  
1085 9.5 51629.6 -0359.2  
1086 9.5 51632.4 -0328.1  
1087 8.5 51638.0 -0313.4  
1088 10.1 51645.7 -0343.5  
1089 9.7 51708.8 -0356.5

1090 9.0 51713.9 -0307.6  
1091 8.8 51714.9 -0324.8  
1092 9.2 51719.7 -0338.6  
1093 9.5 51752.8 -0358.2  
1094 10.1 51807.7 -0335.3  
1095 9.5 51835.9 -0308.4  
1096 9.5 51845.9 -0305.3  
1097 8.5 51902.0 -0312.5  
1098 9.2 51913.8 -0300.9  
1099 9.5 51919.6 -0336.2

1100 9.5 51928.7 -0342.0  
1101 9.3 51934.9 -0308.4  
1102 9.2 51948.6 -0303.0  
1103 9.1 51953.0 -0303.5  
1104 9.8 52000.1 -0315.5  
1105 9.5 52020.8 -0303.5  
1106 9.4 52035.6 -0313.7  
1107 9.3 52039.0 -0312.3  
1108 9.5 52040.7 -0343.8  
1109 9.5 52115.6 -0309.5

1110 8.5 52115.6 -0335.7  
1111 9.0 52123.2 -0321.8  
1112 8.9 52127.8 -0359.8  
1113 9.3 52128.5 -0310.8  
1114 9.8 52138.4 -0305.0  
1115 6.8 52142.5 -0325.7  
1116 6.3 52210.1 -0334.0  
1117 8.3 52207.4 -0325.3  
1118 9.3 52313.7 -0343.8  
1119 9.5 52345.3 -0342.4

1120 8.8 52350.7 -0325.6  
1121 9.0 52355.2 -0318.5  
1122 9.7 52401.9 -0344.4  
1123 8.7 52407.9 -0343.1  
1124 9.7 52411.8 -0338.2  
1125 9.3 52424.5 -0334.0  
1126 7.2 52430.7 -0319.5  
1127 9.5 52438.7 -0343.6  
1128 9.5 52448.1 -0316.8  
1129 9.5 52501.3 -0322.5



-03 1130 5h25m

1130 9.5 52501.7 -0340.5  
1131 9.3 52506.8 -0357.0  
1132 9.5 52527.2 -0318.5  
1133 9.5 52538.0 -0311.4  
1134 9.7 52610.2 -0325.4  
1135 8.8 52616.0 -0312.6  
1136 7.5 52623.8 -0334.4  
1137 9.2 52626.7 -0344.0  
1138 9.5 52648.6 -0336.4  
1139 9.2 52657.5 -0332.9

1140 9.3 52657.7 -0321.1  
1141 8.5 52726.7 -0346.7  
1142 9.2 52755.7 -0348.3  
1143 9.5 52759.3 -0318.4  
1144 9.5 52816.4 -0329.5  
1145 9.4 52820.2 -0339.0  
1146 7.0 52821.7 -0321.0  
1147 9.4 52824.9 -0340.5  
1148 8.8 52825.1 -0325.5  
1149 9.1 52829.5 -0309.2

1150 9.9 52837.4 -0300.3  
1151 9.5 52819.7 -0349.8  
1152 10.1 52823.3 -0318.4  
1153 9.0 52827.4 -0324.2  
1154 9.3 52828.6 -0336.0  
1155 9.5 52827.9 -0304.6  
1156 9.7 52958.5 -0332.3  
1157 9.5 52960.3 -0336.8  
1158 9.3 53001.8 -0356.1  
1159 9.5 53023.7 -0344.9

1160 9.5 53100.3 -0327.2  
1161 9.4 53101.3 -0325.6  
1162 9.0 53104.7 -0339.0  
1163 10.1 53114.2 -0308.7  
1164 10.1 53147.8 -0353.3  
1165 9.2 53153.2 -0302.5  
1166 6.5 53217.7 -0339.1  
1167 8.0 53241.0 -0325.5  
1168 7.8 53306.5 -0331.1  
1169 9.2 53343.8 -0359.9

1170 8.0 53344.8 -0355.1  
1171 8.5 53354.7 -0342.5  
1172 9.0 53416.4 -0303.6  
1173 8.0 53422.7 -0348.4  
1174 9.0 53426.0 -0334.5  
1175 9.5 53500.8 -0352.8  
1176 10.1 53503.7 -0319.1  
1177 8.8 53506.6 -0324.2  
1178 9.0 53537.7 -0317.2  
1179 9.5 53604.7 -0342.8

1180 9.2 53611.7 -0338.8  
1181 8.7 53639.6 -0340.7  
1182 9.1 53645.4 -0353.2  
1183 9.5 53720.4 -0329.0  
1184 9.7 53740.9 -0358.8  
1185 9.6 53758.8 -0309.4  
1186 9.5 53807.3 -0310.2  
1187 9.8 53823.3 -0340.0  
1188 9.8 53845.4 -0317.8  
1189 9.7 53859.9 -0322.7

1190 9.6 53903.4 -0332.7  
1191 9.3 53925.7 -0332.7  
1192 9.0 53921.7 -0318.9  
1193 9.5 53931.8 -0352.5  
1194 9.1 53933.7 -0319.3  
1195 9.5 53947.8 -0356.5  
1196 9.1 53952.2 -0324.3  
1197 9.5 54015.6 -0336.0  
1198 9.7 54033.4 -0309.5  
1199 9.5 54038.2 -0329.0

1200 9.4 54053.2 -0315.2  
1201 9.0 54056.7 -0314.3  
1202 9.4 54100.7 -0328.6  
1203 9.5 54125.7 -0328.1  
1204 9.0 54145.7 -0321.4  
1205 9.5 54216.8 -0327.7  
1206 9.5 54255.2 -0327.6  
1207 9.5 54307.9 -0333.2  
1208 8.7 54318.4 -0312.5  
1209 9.5 54333.8 -0355.5

1210 9.2 54350.2 -0327.1  
1211 9.5 54355.7 -0351.5  
1212 9.5 54412.7 -0313.9  
1213 9.5 54413.2 -0311.7  
1214 8.8 54419.2 -0330.1  
1215 9.5 54421.7 -0315.3  
1216 9.0 54437.7 -0340.8  
1217 9.5 54449.8 -0328.1  
1218 9.5 54449.8 -0358.3  
1219 9.5 54522.0 -0301.7

1220 9.0 54539.2 -0331.9  
1221 8.5 54541.7 -0311.5  
1222 9.5 54542.7 -0318.2  
1223 8.5 54608.7 -0335.4  
1224 9.3 54620.8 -0350.6  
1225 9.5 54621.8 -0338.5  
1226 9.0 54635.7 -0313.7  
1227 9.5 54648.9 -0356.4  
1228 9.0 54713.6 -0305.2  
1229 8.5 54722.7 -0314.2

1230 8.3 54727.8 -0330.9  
1231 9.5 54744.6 -0310.7  
1232 9.5 54744.8 -0346.6  
1233 9.5 54745.9 -0343.7  
1234 9.7 54802.3 -0354.7  
1235 9.4 54806.7 -0368.5  
1236 9.5 54837.6 -0309.6  
1237 9.5 54846.8 -0341.4  
1238 8.5 54854.8 -0349.9  
1239 9.5 54931.7 -0321.7

1240 9.5 54932.7 -0314.1  
1241 8.5 54936.7 -0305.7  
1242 9.6 54944.9 -0350.4  
1243 9.2 54945.6 -0347.3  
1244 10.1 55003.9 -0356.7  
1245 9.5 55024.7 -0335.6  
1246 9.2 55100.9 -0356.2  
1247 9.0 55108.6 -0324.2  
1248 9.5 55110.5 -0311.9  
1249 10.1 55118.8 -0351.3

1250 9.3 55137.5 -0312.8  
1251 9.3 55152.7 -0332.2  
1252 9.5 55212.8 -0341.0  
1253 9.2 55213.9 -0359.3  
1254 9.5 55221.1 -0327.8  
1255 9.8 55247.8 -0308.5  
1256 5.7 55249.5 -0304.8  
1257 9.4 55251.2 -0329.0  
1258 10.1 55306.5 -0339.2  
1259 10.1 55308.5 -0341.4

1260 8.3 55333.9 -0354.3  
1261 9.0 55344.1 -0325.7  
1262 10.1 55357.7 -0333.8  
1263 9.5 55406.9 -0352.5  
1264 9.0 55430.9 -0355.2  
1265 8.0 55437.8 -0340.9  
1266 9.2 55449.2 -0307.7  
1267 9.0 55454.8 -0338.7  
1268 9.3 55456.9 -0354.8  
1269 9.5 55468.5 -0318.4

1270 9.5 55554.1 -0319.3  
1271 9.0 55559.7 -0329.6  
1272 9.5 55613.4 -0343.6  
1273 9.2 55633.5 -0306.9  
1274 10.1 55642.1 -0326.0  
1275 9.5 55647.5 -0312.3  
1276 9.1 55659.9 -0350.1  
1277 9.8 55700.6 -0340.7  
1278 9.0 55701.2 -0326.7  
1279 9.5 55701.6 -0342.6

1280 10.1 55706.4 -0321.2  
1281 9.0 55714.4 -0303.8  
1282 9.5 55714.4 -0344.2  
1283 9.0 55718.5 -0311.8  
1284 9.8 55728.6 -0358.7  
1285 9.6 55736.0 -0351.8  
1286 9.5 55741.5 -0322.1  
1287 9.7 55753.4 -0344.0  
1288 9.2 55755.0 -0354.4  
1289 9.8 55814.4 -0347.5

1290 9.5 55815.5 -0315.1  
1291 9.8 55815.9 -0347.5  
1292 9.5 55847.7 -0332.3  
1293 9.5 55856.6 -0327.5  
1294 9.5 55915.8 -0344.3  
1295 9.5 55921.5 -0314.8  
1296 9.0 55931.9 -0355.6  
1297 7.0 55941.6 -0319.2  
1298 9.5 55942.9 -0354.2  
1299 10.1 60004.6 -0335.9

1300 9.5 60009.5 -0312.9  
1301 9.0 60009.9 -0358.7  
1302 8.3 60021.2 -0335.0  
1303 9.5 60042.8 -0343.0  
1304 9.0 60058.4 -0301.8  
1305 9.0 60058.9 -0355.9  
1306 9.7 60153.5 -0306.6  
1307 9.3 60202.7 -0334.4  
1308 8.0 60206.8 -0346.5  
1309 9.3 60211.4 -0300.8

1310 9.0 60221.7 -0322.7  
1311 9.3 60226.2 -0325.6  
1312 9.5 60229.5 -0304.4  
1313 9.5 60233.8 -0346.6  
1314 10.1 60240.7 -0332.5  
1315 9.5 60247.8 -0322.7  
1316 9.5 60253.5 -0311.1  
1317 9.4 60313.5 -0303.5  
1318 9.0 60321.1 -0334.1  
1319 9.5 60322.9 -0351.3

1320 9.5 60324.2 -0326.2  
1321 9.0 60327.9 -0356.2  
1322 9.5 60338.3 -0336.5  
1323 9.5 60343.7 -0329.6  
1324 9.1 60345.6 -0323.7  
1325 9.2 60350.0 -0329.4  
1326 9.9 60350.2 -0332.9  
1327 9.5 60352.8 -0349.1  
1328 9.0 60353.8 -0343.2  
1329 9.4 60402.2 -0350.1

1330 8.9 60403.9 -0323.4  
1331 9.2 60408.0 -0320.3  
1332 9.5 60414.5 -0305.6  
1333 9.0 60424.1 -0328.7  
1334 9.4 60432.2 -0333.1  
1335 9.5 60447.0 -0354.6  
1336 9.0 60449.1 -0336.5  
1337 9.0 60453.9 -0343.8  
1338 8.5 60456.6 -0320.3  
1339 8.3 60513.9 -0356.4

1340 9.0 60522.0 -0340.9  
1341 9.2 60523.1 -0342.2  
1342 9.5 60547.6 -0314.9  
1343 9.5 60556.8 -0328.4  
1344 9.1 60613.8 -0354.5  
1345 6.5 60642.0 -0342.3  
1346 9.0 60647.7 -0357.2  
1347 9.7 60651.6 -0351.8  
1348 9.7 60652.0 -0327.7  
1349 9.0 60656.2 -0354.1

1350 9.8 60720.9 -0323.1  
1351 9.5 60726.7 -0351.2  
1352 9.6 60727.6 -0305.9  
1353 9.5 60732.7 -0355.4  
1354 8.3 60747.0 -0326.0  
1355 9.0 60800.1 -0327.4  
1356 9.2 60812.8 -0313.6  
1357 9.8 60818.2 -0307.5  
1358 9.2 60827.9 -0331.2  
1359 9.3 60840.0 -0340.9

1360 9.5 60843.4 -0323.2  
1361 8.7 60847.7 -0355.3  
1362 8.7 60858.1 -0320.1  
1363 9.0 60900.7 -0357.2  
1364 9.5 60900.7 -0308.1  
1365 9.5 60908.0 -0324.7  
1366 9.4 60920.4 -0332.5  
1367 9.8 60927.2 -0312.4  
1368 8.7 60927.5 -0313.4  
1369 8.7 60929.5 -0324.6

1370 8.7 60930.2 -0310.0  
1371 9.5 60947.2 -0305.2  
1372 9.8 61006.6 -0354.0  
1373 9.1 61010.6 -0300.1  
1374 9.1 61015.7 -0303.8  
1375 9.5 61016.1 -0331.2  
1376 9.4 61021.0 -0348.2  
1377 10.1 61046.3 -0313.8  
1378 9.8 61100.4 -0319.3  
1379 9.1 61101.0 -0333.2

1380 9.8 61101.7 -0329.9  
1381 9.3 61102.6 -0349.3  
1382 9.3 61110.7 -0356.3  
1383 9.5 61117.2 -0325.6  
1384 8.6 61127.8 -0340.1  
1385 9.2 61149.7 -0310.6  
1386 8.5 61153.4 -0322.9  
1387 8.0 61153.7 -0341.4  
1388 9.1 61158.5 -0345.5  
1389 9.5 61209.2 -0304.9

1390 9.8 61242.3 -0347.8  
1391 9.1 61315.8 -0314.1  
1392 9.7 61318.0 -0329.8  
1393 9.5 61328.4 -0315.1  
1394 9.2 61343.7 -0316.4  
1395 9.1 61345.1 -0342.0  
1396 9.0 61346.5 -0356.5  
1397 8.0 61347.3 -0326.5  
1398 9.7 61348.5 -0339.5  
1399 9.4 61350.1 -0342.0

-03 1489 6h27m

1400 9.9 61411.2 -0309.4  
1401 9.5 61426.5 -0343.8  
1402 9.6 61439.0 -0311.3  
1403 9.8 61457.9 -0354.3  
1404 9.8 61506.6 -0301.7  
1405 9.2 61514.9 -0339.5  
1406 9.6 61516.7 -0327.5  
1407 9.8 61528.4 -0351.4  
1408 9.5 61531.6 -0350.4  
1409 9.3 61532.6 -0351.8

1410 9.7 61538.9 -0333.7  
1411 9.5 61543.7 -0332.3  
1412 9.1 61547.0 -0330.0  
1413 7.2 61547.1 -0312.5  
1414 7.8 61552.6 -0326.7  
1415 9.5 61614.8 -0333.5  
1416 9.5 61623.3 -0335.9  
1417 9.1 61620.1 -0351.7  
1418 9.5 61650.9 -0318.2  
1419 9.4 61658.4 -0327.6

1420 8.5 61715.7 -0327.0  
1421 9.8 61718.6 -0304.3  
1422 9.1 61727.2 -0354.7  
1423 9.5 61740.6 -0353.5  
1424 9.5 61747.7 -0355.1  
1425 7.2 61854.1 -0348.5  
1426 9.1 61858.6 -0316.8  
1427 9.1 61844.0 -0305.1  
1428 9.4 61844.3 -0311.5  
1429 9.2 61844.8 -0310.8

1430 7.4 61856.4 -0326.7  
1431 9.2 61903.8 -0304.7  
1432 9.0 61906.9 -0330.4  
1433 9.4 61910.0 -0305.6  
1434 9.8 61919.9 -0317.5  
1435 9.1 61926.9 -0321.8  
1436 9.5 61939.4 -0325.5  
1437 10.1 61955.2 -0313.9  
1438 9.0 62022.0 -0347.5  
1439 9.0 62026.7 -0326.0

1440 9.3 62026.8 -0309.1  
1441 9.4 62059.3 -0303.3  
1442 9.5 62059.9 -0313.3  
1443 9.5 62064.3 -0332.5  
1444 8.8 62052.0 -0302.6  
1445 9.1 62052.8 -0359.0  
1446 9.7 62054.7 -0332.8  
1447 9.0 62108.4 -0322.1  
1448 9.5 62111.1 -0337.3  
1449 9.0 62119.1 -0307.5

1450 8.5 62126.2 -0341.9  
1451 9.4 62131.0 -0344.0  
1452 9.6 62137.5 -0321.9  
1453 8.8 62159.4 -0304.0  
1454 9.1 62200.9 -0337.1  
1455 9.4 62212.6 -0334.2  
1456 7.9 62222.7 -0327.8  
1457 9.6 62234.1 -0316.0  
1458 9.8 62242.4 -0301.5  
1459 8.9 62249.9 -0308.1

1460 9.2 62251.4 -0311.6  
1461 9.5 62254.8 -0351.0  
1462 8.8 62258.3 -0340.8  
1463 9.1 62305.0 -0303.2  
1464 9.2 62306.7 -0352.2  
1465 9.1 62309.5 -0344.2  
1466 9.5 62311.9 -0330.0  
1467 9.0 62313.1 -0310.0  
1468 9.5 62321.9 -0345.2  
1469 7.9 62334.1 -0336.9

1470 9.8 62344.6 -0341.5  
1471 9.8 62349.3 -0300.3  
1472 9.8 62352.1 -0321.5  
1473 9.0 62358.8 -0337.3  
1474 10.1 62423.3 -0359.7  
1475 8.9 62443.4 -0305.0  
1476 9.8 62510.9 -0352.5  
1477 9.0 62516.6 -0327.0  
1478 10.1 62518.1 -0303.6  
1479 8.7 62522.4 -0340.6

1480 8.1 62545.8 -0342.9  
1481 9.5 62606.1 -0313.3  
1482 9.5 62606.7 -0300.2  
1483 9.4 62619.6 -0301.3  
1484 9.3 62629.9 -0352.7  
1485 9.5 62643.4 -0358.5  
1486 9.8 62704.8 -0307.0  
1487 8.5 62705.6 -0318.9  
1488 9.8 62709.8 -0303.7  
1489 9.0 62711.4 -0329.3



-03 1490 6h27m

1490 9.8 62724.4 -0353.1  
1491 9.8 62726.3 -0353.9  
1492 9.1 62729.4 -0346.0  
1493 9.8 62736.4 -0352.4  
1494 9.2 62745.9 -0300.7  
1495 9.7 62749.2 -0323.1  
1496 9.7 62752.3 -0331.3  
1497 9.5 62801.4 -0354.0  
1498 8.8 62812.0 -0306.4  
1499 8.5 62817.5 -0359.4  
  
1500 9.8 62820.0 -0359.4  
1501 8.2 62821.4 -0351.8  
1502 9.5 62833.8 -0333.4  
1503 7.7 62837.9 -0304.4  
1504 9.1 62840.3 -0347.6  
1505 9.4 62842.6 -0312.4  
1506 9.1 62845.5 -0351.9  
1507 9.1 62901.1 -0331.9  
1508 9.4 62906.9 -0342.7  
1509 9.2 62919.8 -0348.6  
  
1510 9.9 62922.1 -0329.1  
1511 9.8 62926.1 -0322.3  
1512 9.5 62934.4 -0351.9  
1513 8.6 62946.8 -0328.2  
1514 9.5 62956.5 -0307.1  
1515 9.1 62968.0 -0335.1  
1516 9.5 63010.9 -0349.8  
1517 9.0 63028.8 -0334.2  
1518 9.9 63030.7 -0311.7  
1519 9.1 63061.3 -0347.4  
  
1520 9.8 63055.2 -0352.3  
1521 9.8 63105.6 -0313.9  
1522 9.5 63112.0 -0356.5  
1523 9.8 63113.8 -0307.6  
1524 9.2 63130.0 -0353.1  
1525 9.5 63136.6 -0304.2  
1526 10. 63144.0 -0306.5  
1527 9.6 63144.6 -0310.8  
1528 9.1 63152.4 -0340.2  
1529 9.0 63154.5 -0309.3  
  
1530 9.3 63157.1 -0310.8  
1531 9.7 63204.0 -0329.4  
1532 9.8 63223.3 -0243.5  
1533 9.2 63234.9 -0350.4  
1534 9.5 63236.4 -0319.8  
1535 9.8 63236.7 -0317.7  
1536 9.0 63244.1 -0314.2  
1537 8.2 63308.1 -0314.5  
1538 9.1 63309.2 -0324.3  
1539 11. 63311.6 -0329.3  
  
1540 9.2 63313.9 -0342.5  
1541 9.5 63315.0 -0355.1  
1542 8.7 63316.9 -0323.4  
1543 9.5 63317.2 -0300.9  
1544 9.0 63325.5 -0356.0  
1545 9.3 63327.9 -0356.0  
1546 9.1 63329.4 -0347.3  
1547 9.8 63329.6 -0320.8  
1548 9.8 63341.6 -0321.7  
1549 9.5 63343.8 -0322.4  
  
1550 9.6 63349.1 -0333.1  
1551 9.2 63343.0 -0329.7  
1552 9.4 63344.8 -0354.4  
1553 8.2 63348.8 -0350.9  
1554 9.4 63349.4 -0300.3  
1555 8.2 63350.5 -0350.4  
1556 9.0 63350.1 -0319.5  
1557 8.5 63351.0 -0310.2  
1558 9.7 63351.9 -0355.6  
1559 9.7 63353.9 -0327.2  
  
1560 7.7 63355.4 -0341.7  
1561 9.5 63359.9 -0300.9  
1562 9.0 63364.1 -0341.6  
1563 9.5 63364.5 -0307.0  
1564 9.2 63368.7 -0344.7  
1565 9.4 63368.1 -0315.6  
1566 9.8 63362.1 -0334.0  
1567 10. 63361.9 -0341.2  
1568 9.6 63368.6 -0354.3  
1569 10. 63370.8 -0305.2  
  
1570 9.9 63370.2 -0351.9  
1571 9.8 63371.1 -0323.2  
1572 9.5 63378.8 -0357.1  
1573 9.7 63374.5 -0348.3  
1574 9.6 63375.6 -0348.1  
1575 9.5 63375.7 -0305.0  
1576 8.9 63383.7 -0348.3  
1577 9.5 63381.6 -0332.0  
1578 9.8 63382.7 -0326.1  
1579 9.8 63382.5 -0310.9

1580 9.9 63837.6 -0318.2  
1581 8.8 63846.1 -0339.2  
1582 9.5 63852.3 -0358.7  
1583 9.3 63855.0 -0305.9  
1584 9.2 63911.9 -0304.2  
1585 9.5 63925.2 -0348.2  
1586 9.9 63929.2 -0351.3  
1587 9.3 63931.5 -0328.1  
1588 9.3 63933.7 -0328.7  
1589 9.6 63948.1 -0332.1  
  
1590 9.5 63954.6 -0337.5  
1591 9.1 64001.3 -0337.1  
1592 9.5 64001.7 -0330.6  
1593 9.5 64014.3 -0357.3  
1594 9.5 64014.6 -0301.9  
1595 9.1 64017.5 -0310.8  
1596 9.4 64033.1 -0304.4  
1597 9.5 64059.5 -0306.3  
1598 9.4 64104.2 -0301.3  
1599 9.4 64105.5 -0305.4  
  
1600 8.5 64115.6 -0320.3  
1601 9.8 64122.6 -0337.2  
1602 9.2 64123.7 -0304.4  
1603 7.8 64124.5 -0354.9  
1604 9.8 64131.7 -0345.1  
1605 8.7 64146.5 -0322.3  
1606 9.0 64157.8 -0310.3  
1607 9.2 64219.4 -0344.9  
1608 9.9 64230.3 -0339.6  
1609 10. 64231.0 -0304.0  
  
1610 9.1 64232.7 -0327.4  
1611 9.7 64233.1 -0305.1  
1612 9.2 64246.2 -0342.2  
1613 9.5 64255.8 -0354.4  
1614 9.8 64302.8 -0303.5  
1615 9.2 64308.0 -0337.2  
1616 10. 64332.0 -0305.5  
1617 8.8 64344.7 -0342.7  
1618 9.8 64351.7 -0330.4  
1619 9.4 64402.3 -0331.9  
  
1620 8.0 64404.5 -0320.4  
1621 9.0 64408.0 -0356.5  
1622 9.4 64409.3 -0354.5  
1623 9.5 64410.0 -0322.6  
1624 9.2 64429.4 -0309.1  
1625 9.5 64431.3 -0328.8  
1626 9.8 64439.3 -0353.4  
1627 10. 64451.4 -0358.1  
1628 10. 64500.1 -0330.4  
1629 9.2 64523.7 -0301.0  
  
1630 8.8 64530.5 -0330.6  
1631 9.7 64530.5 -0302.5  
1632 9.7 64536.2 -0347.1  
1633 9.5 64546.1 -0334.5  
1634 9.7 64557.2 -0335.5  
1635 9.7 64603.3 -0304.4  
1636 9.5 64630.8 -0307.5  
1637 9.5 64637.9 -0359.7  
1638 9.0 64659.0 -0322.9  
1639 9.8 64710.6 -0308.6  
  
1640 10. 64714.0 -0355.9  
1641 8.2 64720.3 -0355.4  
1642 9.0 64743.4 -0309.5  
1643 9.1 64746.3 -0351.4  
1644 9.4 64747.0 -0348.7  
1645 9.8 64804.3 -0326.3  
1646 9.8 64805.1 -0328.7  
1647 9.8 64833.2 -0345.1  
1648 9.2 64836.7 -0352.0  
1649 9.5 64839.4 -0315.7  
  
1650 8.6 64846.9 -0301.1  
1651 8.7 64905.9 -0337.4  
1652 9.4 64910.4 -0326.9  
1653 8.5 64921.2 -0336.2  
1654 9.5 64929.8 -0357.7  
1655 8.5 64932.2 -0328.0  
1656 9.4 64937.0 -0316.6  
1657 7.6 64938.2 -0330.5  
1658 9.2 64944.5 -0317.5  
1659 9.5 64946.6 -0339.4  
  
1660 9.5 64952.1 -0338.2  
1661 9.8 64956.9 -0307.1  
1662 9.9 64958.5 -0308.5  
1663 10. 65015.6 -0316.8  
1664 8.7 65016.5 -0330.6  
1665 9.9 65019.2 -0316.4  
1666 9.7 65020.0 -0325.6  
1667 9.5 65029.6 -0300.6  
1668 9.4 65039.0 -0334.5  
1669 9.5 65121.8 -0355.5

1670 9.5 65129.6 -0338.5  
1671 9.4 65136.9 -0317.9  
1672 8.0 65144.2 -0349.2  
1673 9.4 65147.4 -0317.6  
1674 9.1 65154.0 -0302.5  
1675 9.5 65202.1 -0336.1  
1676 9.7 65206.1 -0327.6  
1677 9.3 65230.3 -0327.8  
1678 9.6 65238.3 -0300.8  
1679 9.5 65244.0 -0325.9  
  
1680 9.0 65250.0 -0319.3  
1681 9.5 65317.9 -0357.3  
1682 9.3 65329.5 -0330.2  
1683 9.5 65333.7 -0346.0  
1684 9.8 65336.2 -0342.0  
1685 7.7 65346.4 -0303.3  
1686 8.5 65352.6 -0346.0  
1687 9.3 65401.1 -0341.0  
1688 9.5 65405.2 -0315.1  
1689 9.5 65409.4 -0313.4  
  
1690 9.2 65413.8 -0359.4  
1691 9.3 65418.8 -0300.2  
1692 10. 65441.9 -0311.0  
1693 9.0 65451.2 -0349.3  
1694 7.0 65452.9 -0333.0  
1695 9.1 65456.2 -0304.2  
1696 9.5 65503.0 -0322.4  
1697 9.8 65508.4 -0324.9  
1698 8.7 65510.7 -0315.2  
1699 9.0 65510.8 -0307.5  
  
1700 9.5 65511.6 -0341.2  
1701 9.6 65514.8 -0329.6  
1702 9.6 65528.9 -0336.9  
1703 9.4 65600.4 -0308.3  
1704 9.0 65605.3 -0348.8  
1705 9.5 65611.2 -0355.1  
1706 9.5 65612.7 -0339.4  
1707 10. 65632.8 -0322.0  
1708 10. 65633.6 -0348.6  
1709 9.2 65637.7 -0347.8  
  
1710 9.5 65643.7 -0351.5  
1711 9.4 65645.1 -0307.0  
1712 9.1 65649.1 -0305.1  
1713 9.0 65658.0 -0302.6  
1714 9.5 65711.7 -0349.5  
1715 9.5 65714.3 -0355.7  
1716 9.5 65714.5 -0337.2  
1717 9.2 65730.2 -0351.4  
1718 9.6 65733.8 -0328.8  
1719 9.3 65734.6 -0340.5  
  
1720 9.3 65743.1 -0342.9  
1721 10. 65801.2 -0355.0  
1722 9.3 65805.1 -0307.0  
1723 9.4 65808.2 -0347.4  
1724 9.7 65813.5 -0307.1  
1725 9.4 65814.4 -0344.0  
1726 9.4 65826.4 -0342.2  
1727 9.1 65850.7 -0350.6  
1728 9.4 65856.4 -0354.8  
1729 9.5 65857.3 -0355.7  
  
1730 10. 65902.1 -0323.7  
1731 9.8 65903.5 -0336.1  
1732 8.3 65913.8 -0303.1  
1733 9.0 65920.9 -0341.3  
1734 9.8 65922.2 -0300.4  
1735 8.8 65924.3 -0326.0  
1736 10. 65927.4 -0303.8  
1737 9.8 65950.1 -0305.2  
1738 9.8 65950.6 -0315.6  
1739 9.8 65952.9 -0324.4  
  
1740 9.8 65953.8 -0335.7  
1741 9.5 65957.8 -0354.8  
1742 9.0 65958.4 -0300.1  
1743 9.5 70004.8 -0357.5  
1744 9.5 70005.2 -0350.9  
1745 9.5 70011.9 -0303.8  
1746 9.8 70019.8 -0352.6  
1747 10. 70023.1 -0331.0  
1748 9.7 70028.2 -0329.6  
1749 9.1 70030.8 -0354.2  
  
1750 8.3 70033.0 -0309.4  
1751 8.7 70043.9 -0357.4  
1752 9.7 70047.4 -0325.1  
1753 9.4 70047.9 -0311.1  
1754 9.7 70048.9 -0326.4  
1755 9.1 70053.7 -0320.6  
1756 9.8 70056.2 -0306.9  
1757 8.7 70057.4 -0303.9  
1758 9.7 70058.6 -0335.7  
1759 9.7 70059.5 -0330.5

1760 9.4 70112.0 -0334.4  
1761 9.8 70121.9 -0311.7  
1762 8.6 70135.7 -0350.1  
1763 9.7 70137.7 -0319.8  
1764 9.7 70148.9 -0319.1  
1765 9.8 70151.6 -0335.6  
1766 8.8 70159.5 -0308.3  
1767 9.8 70212.1 -0337.8  
1768 9.5 70213.8 -0355.9  
1769 9.5 70217.2 -0346.0  
  
1770 8.9 70226.1 -0301.1  
1771 10. 70247.7 -0348.1  
1772 9.9 70302.9 -0334.1  
1773 9.0 70311.7 -0351.9  
1774 9.0 70313.3 -0355.0  
1775 9.5 70314.0 -0313.7  
1776 9.6 70316.3 -0355.0  
1777 9.3 70326.2 -0348.6  
1778 9.5 70339.7 -0346.3  
1779 9.5 70340.9 -0300.2  
  
1780 8.8 70344.1 -0338.7  
1781 7.2 70349.1 -0340.0  
1782 9.8 70354.1 -0305.0  
1783 9.4 70400.1 -0312.5  
1784 9.1 70401.7 -0314.7  
1785 9.4 70408.8 -0353.9  
1786 9.3 70409.2 -0307.5  
1787 9.8 70410.4 -0314.5  
1788 9.2 70417.7 -0346.0  
1789 8.3 70433.8 -0354.1  
  
1790 9.3 70434.3 -0322.0  
1791 9.5 70500.6 -0304.0  
1792 9.3 70503.3 -0325.4  
1793 9.5 70505.4 -0357.8  
1794 9.3 70509.6 -0359.1  
1795 9.5 70527.7 -0301.2  
1796 9.8 70535.4 -0312.6  
1797 9.5 70539.6 -0302.3  
1798 9.5 70548.9 -0336.2  
1799 9.2 70553.1 -0304.2  
  
1800 9.0 70632.7 -0342.6  
1801 8.6 70635.7 -0316.4  
1802 10. 70637.1 -0327.2  
1803 8.0 70642.8 -0328.8  
1804 6.5 70657.9 -0339.7  
1805 9.7 70659.8 -0326.9  
1806 9.7 70701.8 -0303.8  
1807 9.5 70704.9 -0346.8  
1808 9.8 70707.9 -0348.4  
1809 9.5 70723.0 -0326.2  
  
1810 9.5 70726.6 -0341.7  
1811 9.8 70728.9 -0300.9  
1812 9.5 70733.0 -0323.0  
1813 9.5 70752.4 -0325.6  
1814 9.4 70757.4 -0301.6  
1815 9.3 70758.6 -0305.6  
1816 9.8 70802.2 -0349.0  
1817 9.5 70823.8 -0326.2  
1818 8.5 70826.9 -0307.6  
1819 9.5 70840.4 -0359.8  
  
1820 9.1 70841.3 -0340.4  
1821 9.1 70855.8 -0325.1  
1822 9.8 70911.5 -0351.0  
1823 9.5 70916.2 -0344.5  
1824 8.2 70938.6 -0327.2  
1825 10. 71003.2 -0332.6  
1826 8.7 71004.6 -0337.5  
1827 9.4 71008.9 -0336.4  
1828 9.8 71013.8 -0301.3  
1829 9.0 71019.2 -0329.9  
  
1830 9.8 71021.1 -0335.3  
1831 7.9 71021.8 -0329.6  
1832 9.4 71024.7 -0338.7  
1833 9.5 71030.2 -0351.2  
1834 9.5 71033.8 -0312.4  
1835 9.4 71050.8 -0331.0  
1836 9.0 71055.9 -0337.0  
1837 9.3 71102.1 -0307.0  
1838 8.8 71106.5 -0321.2  
1839 9.4 71112.1 -0357.9  
  
1840 9.4 71121.4 -0301.0  
1841 9.5 71138.9 -0332.4  
1842 9.5 71151.9 -0358.4  
1843 9.5 71153.3 -0348.8  
1844 9.2 71155.4 -0305.1  
1845 9.8 71200.0 -0309.1  
1846 9.1 71202.7 -0343.9  
1847 8.3 71223.0 -0321.0  
1848 9.8 71225.3 -0309.8  
1849 9.5 71248.9 -0352.2

-03 1849 7h12m



-03 1850 7h12m

1850 7.0 71253.9 -0333.3  
1851 9.5 71310.1 -0322.2  
1852 10.1 71339.1 -0336.2  
1853 8.8 71353.9 -0332.6  
1854 8.5 71354.5 -0305.8  
1855 9.4 71359.9 -0356.0  
1856 8.8 71400.8 -0310.8  
1857 9.8 71402.9 -0356.5  
1858 8.0 71407.9 -0301.4  
1859 9.5 71424.7 -0342.6  
  
1860 9.8 71436.9 -0335.1  
1861 10.1 71440.7 -0341.7  
1862 9.7 71441.5 -0305.1  
1863 9.6 71443.3 -0312.5  
1864 9.3 71448.4 -0320.9  
1865 8.8 71453.7 -0345.4  
1866 9.3 71510.6 -0310.9  
1867 9.8 71512.8 -0325.9  
1868 10.1 71514.6 -0355.5  
1869 9.5 71524.7 -0245.0  
  
1870 9.3 71539.8 -0324.2  
1871 8.0 71545.7 -0337.1  
1872 10.1 71551.9 -0359.7  
1873 9.2 71554.4 -0305.8  
1874 9.6 71603.8 -0305.3  
1875 9.0 71605.7 -0344.6  
1876 9.4 71612.9 -0300.2  
1877 9.3 71625.3 -0348.4  
1878 7.5 71648.4 -0242.3  
1879 9.3 71650.7 -0316.1  
  
1880 9.8 71651.9 -0353.2  
1881 9.7 71705.7 -0322.1  
1882 9.7 71705.9 -0332.7  
1883 9.4 71717.2 -0343.6  
1884 9.7 71720.8 -0303.0  
1885 9.5 71725.6 -0332.7  
1886 8.7 71740.4 -0357.1  
1887 9.5 71802.5 -0323.7  
1888 9.5 71803.4 -0242.4  
1889 9.5 71806.9 -0314.3  
  
1890 9.1 71814.9 -0333.9  
1891 9.5 71825.3 -0353.2  
1892 9.0 71836.7 -0344.3  
1893 9.5 71843.2 -0242.0  
1894 9.6 71859.0 -0351.1  
1895 9.5 71916.9 -0305.4  
1896 9.1 71923.6 -0338.6  
1897 9.5 71935.3 -0317.8  
1898 9.7 71938.9 -0300.8  
1899 9.1 71940.8 -0306.6  
  
1900 9.5 71944.3 -0304.6  
1901 9.5 71954.1 -0340.0  
1902 9.5 72005.6 -0328.6  
1903 9.5 72018.0 -0222.1  
1904 9.5 72019.7 -0300.4  
1905 9.9 72032.1 -0355.5  
1906 9.4 72047.4 -0342.5  
1907 9.1 72048.9 -0322.8  
1908 9.4 72104.9 -0307.9  
1909 9.6 72114.0 -0334.6  
  
1910 9.5 72124.6 -0309.0  
1911 9.7 72128.1 -0226.1  
1912 7.8 72142.0 -0332.7  
1913 9.5 72142.4 -0314.8  
1914 9.3 72143.9 -0303.4  
1915 9.6 72155.1 -0305.0  
1916 9.3 72156.4 -0311.9  
1917 9.8 72201.8 -0326.0  
1918 9.5 72239.0 -0350.7  
1919 9.0 72240.4 -0340.9  
  
1920 9.0 72247.6 -0327.6  
1921 9.0 72304.6 -0359.5  
1922 9.8 72311.5 -0303.2  
1923 9.6 72325.1 -0313.7  
1924 9.5 72326.6 -0310.8  
1925 9.3 72337.4 -0338.1  
1926 9.5 72340.9 -0320.3  
1927 9.5 72347.3 -0314.2  
1928 9.1 72347.5 -0321.4  
1929 9.5 72358.7 -0313.1  
  
1930 9.8 72405.6 -0350.8  
1931 9.4 72416.2 -0356.9  
1932 9.5 72428.0 -0345.0  
1933 9.5 72430.0 -0328.8  
1934 9.2 72431.7 -0318.1  
1935 8.3 72446.4 -0342.2  
1936 9.8 72514.5 -0324.0  
1937 10.1 72527.8 -0303.8  
1938 9.6 72528.8 -0306.0  
1939 9.8 72530.4 -0336.4

1940 9.8 72540.8 -0331.9  
1941 9.8 72543.2 -0328.1  
1942 9.5 72551.6 -0352.1  
1943 9.1 72551.7 -0316.4  
1944 9.4 72558.4 -0343.2  
1945 9.8 72559.5 -0342.8  
1946 9.5 72602.5 -0322.8  
1947 10.1 72604.9 -0446.6  
1948 9.8 72607.5 -0332.4  
1949 9.8 72614.6 -0350.2  
  
1950 9.8 72618.9 -0309.4  
1951 9.1 72626.0 -0316.1  
1952 9.8 72638.3 -0340.9  
1953 9.2 72648.0 -0325.4  
1954 9.0 72648.1 -0316.5  
1955 9.6 72701.6 -0351.8  
1956 9.4 72701.9 -0350.3  
1957 9.4 72703.7 -0301.1  
1958 9.5 72721.9 -0321.7  
1959 8.4 72730.0 -0319.3  
  
1960 9.8 72746.9 -0339.3  
1961 10.1 72755.9 -0315.4  
1962 9.7 72806.7 -0340.0  
1963 9.1 72813.1 -0334.2  
1964 9.5 72819.4 -0326.4  
1965 9.5 72829.1 -0355.6  
1966 8.7 72832.1 -0352.7  
1967 9.1 72843.1 -0315.4  
1968 8.2 72843.1 -0302.7  
1969 9.6 72903.4 -0318.3  
  
1970 9.2 72907.3 -0317.5  
1971 9.0 72911.1 -0300.4  
1972 8.7 72915.9 -0337.2  
1973 9.2 72918.2 -0315.2  
1974 9.0 72927.8 -0351.1  
1975 9.3 72939.3 -0347.5  
1976 9.7 72946.7 -0307.6  
1977 8.8 72957.1 -0334.6  
1978 9.8 73002.3 -0345.4  
1979 5.3 73004.8 -0347.3  
  
1980 9.5 73007.8 -0322.3  
1981 9.6 73008.6 -0351.8  
1982 9.8 73014.0 -0328.2  
1983 9.1 73026.9 -0314.4  
1984 10.1 73027.0 -0348.6  
1985 10.1 73028.3 -0313.6  
1986 9.2 73029.9 -0328.1  
1987 8.2 73041.3 -0308.5  
1988 9.8 73055.5 -0311.8  
1989 10.1 73056.7 -0341.4  
  
1990 9.4 73058.2 -0326.2  
1991 9.4 73114.5 -0353.0  
1992 9.5 73137.6 -0324.8  
1993 9.5 73147.1 -0348.1  
1994 9.3 73156.6 -0325.7  
1995 9.3 73200.1 -0343.3  
1996 9.3 73219.7 -0357.0  
1997 9.5 73225.6 -0336.8  
1998 9.8 73226.9 -0326.0  
1999 9.3 73237.4 -0331.7  
  
2000 9.2 73241.9 -0350.6  
2001 7.7 73244.3 -0315.4  
2002 9.1 73247.6 -0315.7  
2003 8.6 73250.3 -0319.2  
2004 10.1 73267.6 -0343.7  
2005 9.8 73310.2 -0358.4  
2006 9.8 73310.5 -0320.5  
2007 9.0 73315.4 -0322.2  
2008 9.5 73317.6 -0317.7  
2009 9.8 73327.1 -0339.9  
  
2010 9.8 73344.1 -0329.4  
2011 9.8 73353.5 -0323.1  
2012 9.5 73355.6 -0327.8  
2013 9.5 73407.1 -0354.6  
2014 9.6 73426.0 -0300.7  
2015 9.5 73435.5 -0350.4  
2016 9.1 73445.8 -0331.7  
2017 9.0 73451.3 -0329.8  
2018 9.0 73456.5 -0311.1  
2019 8.5 73457.3 -0310.7  
  
2020 8.9 73501.0 -0321.5  
2021 9.8 73507.6 -0354.3  
2022 10.1 73514.9 -0356.7  
2023 8.3 73520.7 -0341.2  
2024 9.9 73534.2 -0330.0  
2025 8.7 73540.0 -0354.8  
2026 9.4 73553.2 -0300.2  
2027 9.5 73554.6 -0326.0  
2028 7.5 73601.4 -0347.9  
2029 9.9 73603.9 -0322.8

2030 9.4 73607.2 -0340.4  
2031 9.4 73622.1 -0336.9  
2032 9.5 73624.3 -0313.6  
2033 9.8 73635.9 -0345.7  
2034 9.8 73653.1 -0330.8  
2035 10.1 73700.2 -0316.4  
2036 9.4 73705.0 -0314.0  
2037 9.4 73705.1 -0344.0  
2038 9.5 73708.7 -0313.8  
2039 9.2 73728.4 -0328.9  
  
2040 9.5 73729.5 -0321.3  
2041 9.4 73730.5 -0317.2  
2042 9.1 73738.6 -0344.8  
2043 9.2 73749.0 -0317.8  
2044 8.7 73753.0 -0311.0  
2045 9.9 73824.4 -0313.9  
2046 10.1 73832.9 -0348.5  
2047 9.6 73834.0 -0349.8  
2048 9.5 73835.2 -0356.4  
2049 9.1 73835.3 -0345.7  
  
2050 9.8 73847.4 -0347.0  
2051 9.5 73848.5 -0349.7  
2052 9.7 73852.7 -0307.3  
2053 8.0 73856.6 -0336.7  
2054 9.3 73900.2 -0356.3  
2055 9.1 73903.3 -0343.5  
2056 9.3 73903.5 -0325.7  
2057 9.3 73915.2 -0326.4  
2058 9.1 73916.7 -0340.8  
2059 9.0 73922.8 -0310.5  
  
2060 8.5 73929.9 -0320.0  
2061 8.2 73930.8 -0332.0  
2062 8.7 73941.7 -0319.5  
2063 8.9 74001.6 -0352.7  
2064 9.5 74022.2 -0312.2  
2065 8.0 74033.1 -0310.5  
2066 9.5 74043.9 -0301.4  
2067 9.3 74046.0 -0349.8  
2068 9.0 74050.3 -0335.7  
2069 9.4 74055.5 -0358.7  
  
2070 9.5 74101.1 -0353.1  
2071 9.5 74109.0 -0352.9  
2072 10.1 74111.9 -0316.5  
2073 9.5 74113.4 -0343.3  
2074 8.9 74119.5 -0326.5  
2075 9.1 74121.3 -0303.8  
2076 9.8 74126.9 -0349.8  
2077 9.3 74128.0 -0359.6  
2078 9.3 74135.3 -0313.7  
2079 9.6 74152.8 -0342.7  
  
2080 9.8 74152.9 -0334.7  
2081 9.4 74223.0 -0359.8  
2082 9.0 74231.0 -0303.4  
2083 9.4 74256.8 -0330.0  
2084 9.8 74304.9 -0321.5  
2085 10.1 74306.6 -0336.8  
2086 9.7 74316.0 -0327.9  
2087 7.3 74316.2 -0313.9  
2088 9.8 74316.5 -0349.3  
2089 9.4 74326.6 -0359.0  
  
2090 9.5 74328.0 -0321.3  
2091 9.1 74328.4 -0326.3  
2092 9.8 74332.8 -0344.6  
2093 8.9 74334.2 -0312.3  
2094 9.8 74343.2 -0339.2  
2095 9.4 74347.1 -0336.8  
2096 9.1 74348.0 -0320.1  
2097 9.6 74423.3 -0305.4  
2098 9.5 74442.0 -0343.6  
2099 9.5 74443.9 -0329.6  
  
2100 9.8 74456.0 -0319.6  
2101 9.8 74456.0 -0325.8  
2102 9.4 74501.5 -0323.2  
2103 9.8 74508.1 -0358.4  
2104 9.7 74515.4 -0309.2  
2105 9.8 74522.9 -0303.4  
2106 8.7 74534.8 -0332.3  
2107 8.9 74539.7 -0334.7  
2108 9.4 74606.9 -0303.8  
2109 9.8 74614.4 -0349.7  
  
2110 9.0 74635.4 -0319.8  
2111 8.3 74649.1 -0355.9  
2112 7.8 74657.7 -0309.9  
2113 9.1 74717.1 -0323.1  
2114 9.5 74721.5 -0330.8  
2115 10.1 74728.6 -0358.1  
2116 9.1 74736.3 -0318.4  
2117 9.2 74740.0 -0351.6  
2118 9.2 74750.3 -0346.0  
2119 9.8 74758.6 -0311.6

2120 8.6 74803.6 -0337.7  
2121 9.7 74822.0 -0302.3  
2122 9.1 74825.7 -0205.1  
2123 9.5 74852.0 -0200.0  
2124 8.7 74855.3 -0303.1  
2125 9.5 74915.3 -0335.0  
2126 9.5 74916.4 -0338.1  
2127 9.4 74924.2 -0318.3  
2128 9.8 74928.9 -0306.7  
2129 7.5 74938.5 -0304.1  
  
2130 9.3 74939.7 -0329.3  
2131 9.9 74941.4 -0308.8  
2132 9.0 74946.4 -0317.7  
2133 9.2 74954.1 -0356.5  
2134 9.2 74956.6 -0311.3  
2135 9.5 75002.5 -0222.0  
2136 9.7 75002.6 -0325.1  
2137 9.7 75003.3 -0327.4  
2138 9.5 75028.8 -0352.3  
2139 9.7 75039.2 -0231.5  
  
2140 9.5 75054.3 -0301.1  
2141 9.5 75058.8 -0243.2  
2142 9.4 75103.4 -0307.6  
2143 9.1 75106.0 -0324.9  
2144 9.5 75108.8 -0343.3  
2145 9.8 75111.4 -0327.0  
2146 8.0 75114.2 -0314.7  
2147 8.0 75120.1 -0328.3  
2148 9.4 75136.4 -0333.6  
2149 9.8 75136.6 -0307.0  
  
2150 9.3 75137.2 -0354.3  
2151 7.0 75150.4 -0256.2  
2152 9.4 75202.2 -0201.1  
2153 9.5 75202.6 -0308.1  
2154 9.3 75217.0 -0325.9  
2155 9.4 75222.5 -0344.3  
2156 9.7 75225.9 -0329.7  
2157 4.9 75228.4 -0316.8  
2158 9.5 75234.3 -0304.7  
2159 9.7 75234.4 -0316.0  
  
2160 9.5 75252.3 -0329.6  
2161 9.8 75256.6 -0319.2  
2162 9.0 75305.7 -0304.3  
2163 8.8 75307.1 -0334.3  
2164 9.1 75308.3 -0317.8  
2165 9.6 75309.8 -0307.4  
2166 9.3 75313.5 -0246.1  
2167 10.1 75327.9 -0340.4  
2168 9.6 75331.0 -0332.4  
2169 9.2 75336.9 -0352.9  
  
2170 9.5 75338.4 -0301.3  
2171 8.0 75357.9 -0307.3  
2172 9.5 75407.5 -0226.9  
2173 9.3 75410.9 -0300.4  
2174 9.4 75422.4 -0315.7  
2175 9.4 75427.0 -0323.0  
2176 8.3 75436.5 -0308.8  
2177 10.1 75453.9 -0352.9  
2178 9.1 75455.8 -0237.9  
2179 9.3 75459.7 -0334.6  
  
2180 8.5 75519.3 -0355.2  
2181 9.5 75525.7 -0251.6  
2182 9.5 75529.9 -0300.3  
2183 10.1 75535.2 -0356.3  
2184 9.8 75543.1 -0329.5  
2185 9.4 75548.6 -0359.0  
2186 9.8 75552.9 -0317.1  
2187 9.8 75553.7 -0334.5  
2188 9.5 75555.1 -0329.7  
2189 9.0 75560.6 -0350.5  
  
2190 9.8 75610.7 -0308.6  
2191 8.5 75612.1 -0204.0  
2192 10.1 75634.1 -0344.5  
2193 9.8 75637.0 -0313.6  
2194 9.1 75648.0 -0314.1  
2195 9.0 75650.9 -0330.9  
2196 8.7 75704.6 -0308.6  
2197 9.0 75709.9 -0336.1  
2198 9.0 75712.1 -0334.7  
2199 8.7 75725.4 -0325.9  
  
2200 9.6 75722.0 -0313.1  
2201 9.0 75743.0 -0320.0  
2202 7.0 75743.3 -0305.2  
2203 9.8 75758.8 -0327.9  
2204 9.2 75809.8 -0326.0  
2205 9.7 75817.2 -0321.3  
2206 8.9 75818.5 -0324.4  
2207 9.1 75846.1 -0348.1  
2208 8.7 75917.2 -0305.6  
2209 9.5 75927.3 -0256.4

-03 2209 7h59m



-03 2210 7h59m

2210 9.5 75938.2 -0353.7  
2211 8.2 75949.2 -0355.8  
2212 9.0 75949.8 -0326.9  
2213 9.4 80007.4 -0343.1  
2214 9.7 80015.9 -0308.6  
2215 10. 80034.8 -0330.6  
2216 8.0 80045.2 -0318.2  
2217 8.2 80045.8 -0357.2  
2218 9.4 80110.8 -0329.4  
2219 9.6 80120.2 -0352.5  
2220 9.4 80140.6 -0330.3  
2221 9.8 80144.7 -0334.5  
2222 9.6 80150.1 -0302.2  
2223 10. 80155.7 -0315.3  
2224 9.5 80156.0 -0345.7  
2225 9.2 80200.6 -0346.9  
2226 9.7 80207.7 -0317.7  
2227 9.4 80220.6 -0300.2  
2228 8.0 80235.9 -0344.0  
2229 8.8 80257.5 -0358.1  
2230 9.5 80256.9 -0311.4  
2231 9.6 80259.6 -0351.8  
2232 8.7 80303.3 -0311.4  
2233 9.4 80305.8 -0307.6  
2234 9.4 80313.1 -0306.9  
2235 9.8 80322.2 -0303.2  
2236 9.1 80348.2 -0322.0  
2237 9.6 80348.6 -0307.4  
2238 9.5 80352.0 -0301.9  
2239 8.7 80359.4 -0359.7  
2240 8.5 80359.8 -0338.8  
2241 10. 80403.8 -0345.7  
2242 9.5 80404.8 -0355.3  
2243 9.4 80421.7 -0324.0  
2244 9.5 80422.8 -0307.3  
2245 8.8 80423.7 -0322.2  
2246 9.8 80426.7 -0353.2  
2247 9.3 80438.4 -0300.2  
2248 9.7 80440.7 -0304.3  
2249 9.5 80447.7 -0321.6  
2250 9.8 80504.7 -0302.8  
2251 9.8 80505.5 -0337.0  
2252 9.0 80506.9 -0330.9  
2253 9.6 80514.3 -0302.0  
2254 9.5 80531.5 -0348.6  
2255 9.2 80541.6 -0349.1  
2256 9.0 80549.9 -0344.0  
2257 9.5 80551.6 -0319.8  
2258 9.1 80600.0 -0344.0  
2259 9.5 80601.6 -0329.4  
2260 8.7 80610.8 -0338.2  
2261 9.3 80626.0 -0335.2  
2262 9.5 80629.5 -0347.8  
2263 9.5 80640.2 -0311.0  
2264 8.9 80640.4 -0337.7  
2265 9.9 80640.5 -0320.4  
2266 9.6 80640.8 -0322.0  
2267 9.3 80650.6 -0309.9  
2268 7.3 80709.2 -0323.6  
2269 9.5 80709.5 -0345.0  
2270 9.5 80712.0 -0315.1  
2271 9.6 80725.7 -0334.3  
2272 9.5 80743.6 -0352.1  
2273 9.4 80752.8 -0325.8  
2274 9.2 80753.2 -0326.8  
2275 9.5 80756.8 -0316.8  
2276 10. 80800.5 -0330.2  
2277 9.5 80818.4 -0352.6  
2278 9.1 80824.8 -0307.6  
2279 9.5 80828.3 -0337.5  
2280 9.3 80832.0 -0316.2  
2281 9.5 80838.4 -0343.5  
2282 9.6 80839.8 -0307.8  
2283 9.8 80907.4 -0301.2  
2284 9.3 80937.6 -0310.7  
2285 9.5 80942.5 -0348.9  
2286 8.8 80958.0 -0349.1  
2287 9.3 81002.9 -0303.8  
2288 7.7 81016.0 -0331.7  
2289 9.5 81021.5 -0334.1  
2290 9.0 81032.3 -0355.3  
2291 8.5 81047.7 -0334.1  
2292 10. 81117.9 -0334.7  
2293 9.7 81125.7 -0332.7  
2294 9.2 81126.3 -0334.9  
2295 8.2 81134.2 -0338.1  
2296 9.5 81141.0 -0326.7  
2297 9.5 81142.2 -0312.7  
2298 9.7 81142.9 -0304.0  
2299 9.5 81158.7 -0352.1

2300 9.8 81201.6 -0321.8  
2301 8.0 81226.8 -0341.2  
2302 9.5 81234.5 -0355.2  
2303 9.8 81236.0 -0328.5  
2304 9.7 81236.9 -0303.8  
2305 9.8 81240.7 -0216.4  
2306 9.0 81241.0 -0319.4  
2307 9.5 81251.8 -0342.8  
2308 9.1 81252.6 -0325.5  
2309 9.8 81330.4 -0316.3  
2310 9.1 81337.3 -0341.2  
2311 9.6 81338.7 -0328.9  
2312 9.3 81339.5 -0340.8  
2313 9.8 81346.9 -0333.7  
2314 8.4 81350.3 -0357.5  
2315 9.0 81354.1 -0350.0  
2316 9.8 81358.8 -0309.6  
2317 9.0 81425.4 -0359.7  
2318 9.0 81446.3 -0343.0  
2319 9.5 81447.2 -0337.9  
2320 9.5 81453.1 -0320.8  
2321 9.2 81454.7 -0327.8  
2322 9.5 81501.5 -0300.4  
2323 9.8 81517.8 -0359.7  
2324 8.0 81542.5 -0346.9  
2325 9.5 81543.0 -0307.9  
2326 8.8 81544.8 -0327.5  
2327 8.4 81616.2 -0357.7  
2328 9.4 81632.3 -0359.8  
2329 9.8 81634.8 -0302.6  
2330 9.4 81634.9 -0331.2  
2331 9.2 81656.7 -0338.0  
2332 9.8 81716.8 -0308.8  
2333 6.0 81720.7 -0317.1  
2334 9.1 81721.0 -0327.1  
2335 9.6 81743.1 -0343.2  
2336 9.9 81745.5 -0342.4  
2337 8.9 81800.6 -0321.7  
2338 9.3 81811.4 -0324.9  
2339 3.7 81825.0 -0326.3  
2340 8.3 81831.5 -0301.0  
2341 7.5 81833.9 -0342.5  
2342 9.1 81847.1 -0329.9  
2343 9.3 81849.8 -0310.7  
2344 9.1 81908.8 -0336.0  
2345 6.2 81911.5 -0330.8  
2346 9.5 81918.7 -0353.0  
2347 9.8 81919.0 -0346.6  
2348 9.4 81924.3 -0357.1  
2349 9.3 81935.1 -0325.4  
2350 9.0 81946.4 -0344.7  
2351 9.8 81952.4 -0310.9  
2352 9.4 81959.5 -0305.8  
2353 8.3 81959.7 -0303.1  
2354 9.8 82010.2 -0305.4  
2355 9.5 82021.6 -0321.2  
2356 7.0 82027.3 -0356.4  
2357 9.7 82046.6 -0332.5  
2358 9.7 82053.5 -0337.3  
2359 9.4 82106.8 -0300.9  
2360 8.2 82108.7 -0348.6  
2361 9.8 82122.6 -0323.0  
2362 8.8 82133.9 -0345.7  
2363 9.5 82134.2 -0358.5  
2364 9.7 82145.0 -0323.2  
2365 9.5 82204.2 -0322.4  
2366 9.7 82209.1 -0330.1  
2367 9.8 82218.9 -0332.9  
2368 8.5 82220.7 -0324.4  
2369 9.7 82222.4 -0350.1  
2370 9.4 82234.7 -0317.2  
2371 9.5 82243.2 -0315.7  
2372 9.1 82246.4 -0346.3  
2373 9.8 82322.8 -0308.1  
2374 9.8 82328.3 -0307.6  
2375 8.9 82332.9 -0322.0  
2376 10. 82351.9 -0301.1  
2377 9.5 82353.1 -0321.8  
2378 9.9 82355.6 -0334.1  
2379 9.5 82409.7 -0307.3  
2380 9.0 82432.0 -0318.0  
2381 9.1 82510.5 -0303.7  
2382 9.5 82513.5 -0316.3  
2383 9.5 82524.0 -0317.7  
2384 8.5 82532.5 -0334.6  
2385 9.0 82537.4 -0322.1  
2386 8.9 82537.7 -0353.0  
2387 9.8 82602.1 -0359.8  
2388 9.2 82604.6 -0304.2  
2389 9.2 82618.1 -0344.1

2390 9.1 82625.1 -0310.0  
2391 9.8 82625.7 -0306.5  
2392 9.5 82636.0 -0316.6  
2393 9.3 82645.0 -0328.7  
2394 9.0 82647.3 -0312.1  
2395 10. 82653.9 -0300.6  
2396 9.8 82657.9 -0356.0  
2397 9.2 82716.3 -0325.7  
2398 8.5 82733.2 -0339.5  
2399 9.3 82743.9 -0314.2  
2400 9.0 82753.9 -0333.5  
2401 9.1 82754.0 -0317.6  
2402 9.3 82810.3 -0353.5  
2403 9.9 82906.3 -0316.5  
2404 9.3 82908.1 -0321.5  
2405 9.2 82911.1 -0331.9  
2406 8.5 82915.8 -0300.7  
2407 9.8 82936.7 -0314.4  
2408 8.3 82938.2 -0333.9  
2409 8.9 82955.4 -0359.5  
2410 9.0 82955.5 -0329.9  
2411 9.7 82959.7 -0341.0  
2412 9.5 83028.3 -0313.1  
2413 9.5 83033.8 -0351.7  
2414 9.8 83047.6 -0329.5  
2415 9.4 83057.3 -0309.9  
2416 9.3 83058.4 -0358.7  
2417 9.7 83106.4 -0358.5  
2418 9.5 83126.9 -0324.4  
2419 9.5 83129.7 -0342.2  
2420 8.8 83135.6 -0324.8  
2421 9.7 83137.4 -0311.5  
2422 9.1 83144.7 -0305.1  
2423 9.6 83154.5 -0349.8  
2424 9.4 83158.7 -0305.4  
2425 9.0 83202.9 -0311.0  
2426 9.1 83207.9 -0359.7  
2427 8.2 83211.1 -0331.1  
2428 9.8 83221.3 -0311.0  
2429 9.7 83236.2 -0350.0  
2430 8.8 83259.0 -0317.7  
2431 9.3 83309.7 -0347.5  
2432 8.3 83319.2 -0328.5  
2433 9.1 83323.0 -0339.1  
2434 8.5 83332.1 -0342.6  
2435 9.8 83339.2 -0330.1  
2436 8.9 83341.4 -0340.0  
2437 10. 83342.3 -0313.1  
2438 9.1 83416.8 -0300.4  
2439 10. 83431.6 -0320.5  
2440 10. 83434.0 -0330.0  
2441 9.3 83453.4 -0323.3  
2442 9.5 83500.1 -0320.0  
2443 9.4 83506.8 -0354.0  
2444 8.8 83516.7 -0327.2  
2445 7.2 83523.2 -0253.5  
2446 9.9 83527.0 -0355.4  
2447 9.1 83533.9 -0303.8  
2448 9.5 83535.4 -0323.1  
2449 10. 83540.8 -0355.1  
2450 10. 83543.0 -0339.5  
2451 9.6 83609.9 -0304.0  
2452 8.8 83619.4 -0313.8  
2453 9.2 83629.4 -0357.6  
2454 7.8 83649.0 -0341.0  
2455 9.8 83655.3 -0311.0  
2456 9.1 83700.1 -0324.0  
2457 9.4 83707.1 -0348.2  
2458 9.1 83742.3 -0330.5  
2459 9.1 83749.2 -0321.8  
2460 9.3 83758.0 -0322.7  
2461 9.7 83758.5 -0341.0  
2462 8.4 83807.7 -0309.4  
2463 9.8 83809.5 -0321.2  
2464 9.3 83829.3 -0353.0  
2465 9.3 83836.6 -0343.8  
2466 9.7 83854.4 -0319.2  
2467 10. 83855.3 -0301.2  
2468 9.9 83904.2 -0329.5  
2469 9.0 83923.9 -0326.0  
2470 8.7 83932.6 -0304.1  
2471 10. 83957.5 -0300.2  
2472 9.2 84012.6 -0342.5  
2473 8.2 84017.9 -0325.7  
2474 9.0 84023.0 -0316.9  
2475 9.7 84030.2 -0307.5  
2476 8.2 84032.0 -0330.5  
2477 9.5 84122.0 -0307.7  
2478 8.3 84122.8 -0359.4  
2479 9.5 84125.9 -0309.3

2480 9.8 84144.6 -0342.5  
2481 9.6 84231.1 -0313.9  
2482 9.1 84233.6 -0314.4  
2483 9.5 84235.4 -0333.0  
2484 9.5 84235.8 -0310.4  
2485 9.6 84307.2 -0350.3  
2486 7.0 84308.7 -0339.5  
2487 9.1 84317.1 -0321.8  
2488 9.2 84335.7 -0350.1  
2489 9.8 84351.4 -0337.1  
2490 9.4 84357.6 -0325.1  
2491 10. 84433.3 -0356.5  
2492 9.5 84446.1 -0359.3  
2493 10. 84523.2 -0353.3  
2494 9.4 84544.3 -0357.3  
2495 9.5 84547.7 -0326.0  
2496 8.5 84551.6 -0344.1  
2497 8.7 84556.8 -0337.0  
2498 9.5 84608.4 -0315.5  
2499 9.4 84616.6 -0322.8  
2500 9.0 84650.7 -0306.5  
2501 10. 84702.8 -0357.6  
2502 9.3 84720.1 -0346.1  
2503 8.2 84737.6 -0325.7  
2504 9.3 84738.5 -0341.2  
2505 9.4 84739.9 -0350.2  
2506 6.6 84741.2 -0300.4  
2507 9.5 84743.3 -0354.2  
2508 9.3 84745.7 -0306.6  
2509 8.2 84749.5 -0321.8  
2510 10. 84809.6 -0350.0  
2511 9.1 84814.7 -0331.3  
2512 9.4 84823.1 -0324.5  
2513 9.4 84838.0 -0339.4  
2514 9.5 84957.9 -0318.0  
2515 9.5 85001.0 -0341.0  
2516 9.8 85008.8 -0313.4  
2517 9.2 85034.7 -0330.6  
2518 9.8 85039.2 -0337.1  
2519 9.4 85046.5 -0322.3  
2520 8.2 85047.5 -0301.2  
2521 9.7 85111.9 -0358.3  
2522 8.5 85111.6 -0344.5  
2523 9.1 85139.3 -0359.4  
2524 9.2 85139.4 -0316.2  
2525 9.2 85150.9 -0326.9  
2526 9.7 85158.4 -0357.4  
2527 9.2 85213.9 -0355.0  
2528 9.8 85236.6 -0327.3  
2529 8.8 85259.3 -0354.7  
2530 9.9 85311.4 -0316.9  
2531 9.4 85330.6 -0348.5  
2532 8.0 85339.3 -0357.1  
2533 9.3 85346.6 -0306.3  
2534 9.9 85349.6 -0357.7  
2535 6.8 85416.2 -0353.5  
2536 9.5 85428.3 -0359.5  
2537 9.8 85434.7 -0330.9  
2538 10. 85440.5 -0339.6  
2539 9.1 85522.4 -0339.3  
2540 9.1 85524.0 -0324.4  
2541 9.2 85530.1 -0308.5  
2542 10. 85550.8 -0358.0  
2543 9.7 85557.6 -0330.9  
2544 9.2 85604.1 -0345.6  
2545 8.0 85606.6 -0352.3  
2546 9.8 85612.0 -0328.3  
2547 8.3 85624.2 -0351.2  
2548 9.3 85625.3 -0358.2  
2549 9.0 85628.0 -0335.1  
2550 9.0 85630.4 -0336.6  
2551 10. 85631.4 -0332.0  
2552 9.8 85639.1 -0303.5  
2553 8.4 85701.3 -0310.2  
2554 9.5 85707.2 -0351.6  
2555 8.3 85709.8 -0326.7  
2556 9.7 85710.9 -0351.9  
2557 9.3 85717.7 -0312.0  
2558 9.5 85737.3 -0311.6  
2559 10. 85737.5 -0341.5  
2560 10. 85743.0 -0359.5  
2561 9.8 85743.4 -0307.1  
2562 8.2 85744.6 -0324.9  
2563 7.3 85748.3 -0311.8  
2564 9.2 85749.0 -0335.4  
2565 9.5 85753.2 -0326.2  
2566 9.0 85755.0 -0342.6  
2567 9.2 85756.6 -0344.8  
2568 9.5 85805.0 -0312.3  
2569 9.1 85815.5 -0322.8

-03 2569 8h58m



-03 2570 8h58m

2570 8.2 85816.5 -0300.1  
2571 9.2 85849.7 -0351.6  
2572 9.3 85900.3 -0303.9  
2573 9.0 85926.3 -0335.2  
2574 9.3 85944.6 -0331.5  
2575 9.6 85945.4 -0333.0  
2576 9.5 85952.1 -0314.0  
2577 8.6 85953.0 -0322.4  
2578 9.6 85958.8 -0300.8  
2579 8.8 90014.2 -0352.9  
  
2580 9.5 90043.3 -0358.2  
2581 9.2 90103.0 -0341.5  
2582 10.1 90135.4 -0319.5  
2583 10.1 90142.0 -0324.1  
2584 9.8 90142.6 -0306.1  
2585 9.6 90149.2 -0310.7  
2586 9.6 90159.0 -0310.0  
2587 9.5 90213.1 -0308.4  
2588 9.3 90213.3 -0300.0  
2589 8.8 90221.9 -0326.6  
  
2590 10.1 90237.4 -0336.5  
2591 9.3 90239.3 -0347.4  
2592 9.3 90250.2 -0336.2  
2593 9.0 90304.5 -0354.1  
2594 8.3 90308.8 -0311.5  
2595 9.5 90311.5 -0335.2  
2596 10.1 90316.7 -0327.1  
2597 10.1 90327.5 -0345.2  
2598 9.9 90333.3 -0313.0  
2599 9.4 90354.4 -0341.2  
  
2600 9.4 90359.0 -0320.1  
2601 9.4 90412.6 -0337.6  
2602 9.3 90421.7 -0354.1  
2603 9.3 90441.5 -0343.5  
2604 7.4 90446.3 -0358.0  
2605 9.2 90503.4 -0350.1  
2606 10.1 90512.9 -0307.3  
2607 10.1 90514.9 -0315.8  
2608 9.3 90517.9 -0327.4  
2609 9.8 90521.9 -0338.1  
  
2610 9.6 90525.1 -0325.0  
2611 9.0 90609.5 -0347.1  
2612 9.2 90619.8 -0320.7  
2613 9.8 90622.5 -0323.1  
2614 8.9 90622.7 -0318.1  
2615 9.7 90624.9 -0327.2  
2616 10.1 90625.4 -0318.0  
2617 9.0 90627.3 -0342.2  
2618 9.8 90636.1 -0348.3  
2619 9.3 90700.7 -0354.5  
  
2620 9.5 90702.9 -0324.3  
2621 9.8 90703.6 -0349.7  
2622 8.8 90703.6 -0345.0  
2623 8.0 90728.8 -0356.8  
2624 9.8 90744.0 -0344.1  
2625 8.8 90748.4 -0310.9  
2626 9.1 90748.6 -0315.2  
2627 9.3 90751.5 -0345.2  
2628 8.5 90754.5 -0322.0  
2629 9.5 90756.3 -0332.9  
  
2630 9.3 90806.9 -0327.4  
2631 9.2 90814.0 -0329.7  
2632 9.5 90815.2 -0309.0  
2633 10.1 90821.8 -0356.3  
2634 9.3 90822.4 -0317.3  
2635 8.0 90903.3 -0356.0  
2636 8.0 90911.1 -0349.0  
2637 10.1 90912.9 -0343.4  
2638 9.5 90914.1 -0317.2  
2639 9.2 90917.7 -0327.6  
  
2640 10.1 90931.6 -0318.2  
2641 9.0 90935.7 -0336.3  
2642 9.8 90955.5 -0345.3  
2643 9.5 90959.7 -0335.0  
2644 9.1 91001.3 -0335.9  
2645 9.1 91008.9 -0203.2  
2646 10.1 91028.4 -0351.7  
2647 9.9 91052.0 -0304.2  
2648 9.4 91102.7 -0307.5  
2649 9.4 91152.2 -0354.4  
  
2650 9.0 91155.6 -0350.7  
2651 9.3 91202.7 -0304.4  
2652 9.5 91213.3 -0302.1  
2653 9.0 91213.5 -0305.8  
2654 8.5 91215.8 -0345.0  
2655 8.5 91223.2 -0355.9  
2656 9.0 91224.6 -0334.7  
2657 9.4 91232.7 -0306.5  
2658 8.8 91304.3 -0359.6  
2659 9.7 91342.5 -0342.0

2660 8.8 91407.8 -0338.5  
2661 8.3 91425.7 -0355.0  
2662 9.8 91445.2 -0317.4  
2663 9.9 91459.3 -0306.6  
2664 9.5 91532.8 -0359.2  
2665 9.5 91544.9 -0341.8  
2666 9.5 91548.6 -0305.7  
2667 8.7 91640.7 -0354.9  
2668 9.4 91644.5 -0323.5  
2669 9.7 91659.4 -0342.6  
  
2670 9.7 91722.0 -0312.7  
2671 9.4 91724.0 -0356.7  
2672 7.0 91736.4 -0339.7  
2673 9.5 91803.5 -0323.8  
2674 9.3 91827.5 -0336.4  
2675 9.6 91828.7 -0311.5  
2676 9.7 91843.6 -0344.5  
2677 9.8 91852.2 -0347.8  
2678 9.7 91854.3 -0339.8  
2679 9.3 91855.5 -0350.4  
  
2680 9.8 91918.3 -0352.5  
2681 9.8 91932.6 -0343.0  
2682 9.2 91932.7 -0347.2  
2683 9.7 92000.8 -0352.9  
2684 8.3 92007.4 -0356.1  
2685 7.5 92014.9 -0310.0  
2686 9.6 92050.9 -0306.0  
2687 9.8 92102.0 -0335.7  
2688 9.5 92116.1 -0309.8  
2689 8.8 92138.6 -0316.7  
  
2690 9.6 92141.4 -0300.4  
2691 9.8 92154.7 -0347.9  
2692 8.5 92200.7 -0329.7  
2693 6.5 92215.5 -0336.6  
2694 9.2 92248.2 -0310.0  
2695 9.0 92307.9 -0310.1  
2696 9.4 92309.5 -0327.1  
2697 9.4 92315.2 -0309.3  
2698 7.3 92324.0 -0325.9  
2699 9.1 92344.7 -0327.9  
  
2700 8.4 92353.8 -0352.2  
2701 8.5 92444.2 -0346.3  
2702 9.4 92450.7 -0327.6  
2703 9.6 92502.4 -0329.3  
2704 8.8 92503.0 -0347.1  
2705 9.4 92550.1 -0315.2  
2706 10.1 92550.3 -0355.6  
2707 8.3 92600.2 -0345.7  
2708 10.1 92603.4 -0303.0  
2709 9.4 92610.9 -0304.6  
  
2710 9.5 92617.9 -0311.2  
2711 9.8 92631.2 -0346.7  
2712 9.5 92642.0 -0310.0  
2713 8.2 92703.5 -0307.9  
2714 8.9 92716.8 -0322.3  
2715 9.0 92722.2 -0350.9  
2716 9.8 92752.3 -0321.6  
2717 9.0 92753.5 -0338.4  
2718 9.3 92808.6 -0318.3  
2719 9.8 92835.6 -0341.7  
  
2720 9.8 92843.0 -0307.5  
2721 9.8 92846.1 -0340.6  
2722 9.5 92852.3 -0355.5  
2723 9.1 92912.1 -0325.5  
2724 9.1 92924.8 -0356.4  
2725 9.8 92926.5 -0308.3  
2726 8.4 92927.9 -0315.9  
2727 9.5 92931.6 -0358.9  
2728 8.3 92958.6 -0326.1  
2729 9.1 93023.6 -0326.3  
  
2730 9.5 93029.4 -0332.7  
2731 10.1 93042.0 -0300.6  
2732 9.4 93051.2 -0302.2  
2733 7.5 93103.9 -0312.0  
2734 8.9 93105.6 -0325.0  
2735 10.1 93117.4 -0356.8  
2736 7.8 93140.1 -0321.5  
2737 8.1 93150.0 -0347.9  
2738 9.6 93157.1 -0319.4  
2739 8.5 93220.4 -0333.1  
  
2740 9.2 93221.3 -0336.5  
2741 8.3 93241.2 -0304.1  
2742 9.1 93257.3 -0345.0  
2743 9.5 93335.0 -0331.5  
2744 8.0 93419.3 -0337.4  
2745 8.9 93429.6 -0317.3  
2746 9.1 93433.9 -0310.8  
2747 9.8 93437.8 -0320.3  
2748 8.2 93445.7 -0320.6  
2749 9.5 93503.1 -0348.0

2750 8.5 93505.6 -0326.0  
2751 9.2 93512.5 -0302.7  
2752 9.5 93608.5 -0306.7  
2753 9.7 93622.0 -0326.7  
2754 10.1 93625.3 -0333.6  
2755 8.8 93634.0 -0320.1  
2756 8.8 93635.9 -0312.8  
2757 9.3 93638.1 -0343.3  
2758 9.4 93644.8 -0342.5  
2759 7.5 93713.3 -0359.6  
  
2760 10.1 93722.0 -0336.0  
2761 9.9 93739.8 -0333.1  
2762 9.2 93741.2 -0352.4  
2763 9.8 93747.1 -0343.4  
2764 9.6 93819.4 -0359.8  
2765 9.0 93825.7 -0346.7  
2766 9.4 93846.3 -0354.7  
2767 9.5 93858.1 -0341.3  
2768 9.5 93908.2 -0317.3  
2769 9.5 93920.2 -0315.1  
  
2770 9.2 93931.7 -0320.0  
2771 8.0 93937.0 -0337.9  
2772 9.0 93944.1 -0316.0  
2773 8.5 93948.0 -0349.3  
2774 9.8 93953.8 -0309.1  
2775 9.5 94005.6 -0340.8  
2776 9.8 94035.4 -0326.0  
2777 9.4 94041.1 -0343.3  
2778 9.8 94049.9 -0325.7  
2779 9.5 94052.3 -0358.0  
  
2780 9.0 94053.1 -0347.4  
2781 9.3 94057.8 -0353.0  
2782 8.7 94104.5 -0343.8  
2783 9.1 94107.3 -0357.8  
2784 9.4 94200.6 -0331.0  
2785 9.0 94213.0 -0314.2  
2786 9.4 94224.4 -0301.1  
2787 9.0 94232.5 -0304.6  
2788 9.5 94236.1 -0313.7  
2789 9.5 94237.6 -0316.6  
  
2790 9.1 94302.9 -0311.1  
2791 10.1 94306.2 -0349.2  
2792 9.9 94346.9 -0337.0  
2793 9.0 94350.1 -0330.5  
2794 6.1 94355.9 -0333.9  
2795 9.0 94409.1 -0326.5  
2796 9.3 94424.8 -0313.4  
2797 8.8 94425.0 -0347.9  
2798 9.3 94435.0 -0357.2  
2799 9.2 94445.8 -0323.4  
  
2800 9.2 94525.9 -0315.1  
2801 9.3 94547.3 -0304.4  
2802 7.3 94623.3 -0311.1  
2803 9.1 94634.7 -0319.7  
2804 9.5 94639.4 -0339.1  
2805 10.1 94703.9 -0343.0  
2806 8.5 94713.9 -0345.2  
2807 9.0 94726.2 -0317.5  
2808 10.1 94751.4 -0342.5  
2809 10.1 94757.7 -0319.1  
  
2810 10.1 94807.1 -0326.1  
2811 9.4 94813.6 -0330.4  
2812 9.5 94827.4 -0341.4  
2813 9.6 94830.4 -0338.3  
2814 9.8 94839.7 -0300.7  
2815 8.3 94847.3 -0307.6  
2816 9.8 94850.8 -0201.1  
2817 8.4 94908.3 -0309.1  
2818 10.1 94938.5 -0354.4  
2819 8.6 94951.3 -0332.2  
  
2820 9.0 95006.2 -0313.5  
2821 9.8 95036.1 -0312.5  
2822 9.5 95038.3 -0334.6  
2823 9.4 95057.4 -0327.7  
2824 8.2 95123.6 -0329.2  
2825 9.0 95142.4 -0346.2  
2826 9.7 95205.2 -0324.8  
2827 9.6 95255.7 -0322.9  
2828 9.0 95257.6 -0333.9  
2829 9.9 95333.2 -0343.9  
  
2830 9.1 95334.9 -0340.1  
2831 8.6 95336.9 -0334.2  
2832 9.1 95357.0 -0309.1  
2833 9.4 95400.0 -0357.2  
2834 9.4 95413.3 -0303.3  
2835 10.1 95418.2 -0346.9  
2836 9.9 95420.1 -0342.4  
2837 9.6 95420.4 -0345.4  
2838 9.3 95422.4 -0348.2  
2839 9.0 95432.7 -0314.5

2840 8.5 95435.9 -0340.5  
2841 9.5 95458.2 -0325.2  
2842 10.1 95530.8 -0335.0  
2843 9.4 95629.0 -0356.9  
2844 9.4 95640.1 -0356.4  
2845 9.1 95657.2 -0329.3  
2846 9.8 95706.4 -0313.2  
2847 9.3 95724.5 -0317.8  
2848 9.5 95731.9 -0316.4  
2849 9.3 95740.6 -0302.5  
  
2850 9.8 95847.1 -0313.0  
2851 10.1 95921.4 -0347.5  
2852 9.4 95923.9 -0330.5  
2853 9.0 95935.5 -0355.9  
2854 10.1 95948.7 -0317.7  
2855 10.1 100041.0 -0322.6  
2856 8.2 100113.2 -0326.3  
2857 9.5 100156.7 -0319.6  
2858 9.4 100201.9 -0328.1  
2859 9.5 100202.5 -0319.4  
  
2860 8.2 100209.1 -0313.8  
2861 9.4 100220.1 -0339.2  
2862 9.8 100220.4 -0349.7  
2863 9.5 100249.2 -0319.3  
2864 10.1 100259.4 -0347.2  
2865 8.0 100335.3 -0336.6  
2866 9.3 100404.4 -0339.6  
2867 8.5 100405.2 -0330.1  
2868 9.9 100428.8 -0301.5  
2869 9.4 100441.0 -0358.5  
  
2870 9.0 100458.7 -0301.6  
2871 9.4 100535.4 -0337.4  
2872 9.7 100614.7 -0301.1  
2873 7.8 100635.1 -0324.6  
2874 9.5 100658.1 -0318.1  
2875 9.8 100705.5 -0352.9  
2876 10.1 100809.2 -0359.1  
2877 8.5 100853.0 -0311.7  
2878 9.8 100902.5 -0337.8  
2879 10.1 100909.0 -0300.1  
  
2880 9.4 100931.1 -0353.3  
2881 9.0 100940.5 -0331.0  
2882 9.8 101001.7 -0358.0  
2883 10.1 101008.5 -0336.9  
2884 9.4 101015.6 -0316.1  
2885 9.5 101021.1 -0315.5  
2886 9.9 101033.5 -0341.6  
2887 8.5 101037.7 -0305.8  
2888 9.0 101049.5 -0344.6  
2889 10.1 101055.4 -0340.6  
  
2890 8.6 101057.5 -0309.2  
2891 9.1 101117.0 -0306.1  
2892 9.2 101152.7 -0321.2  
2893 9.9 101152.9 -0333.6  
2894 9.0 101202.6 -0353.0  
2895 10.1 101207.1 -0318.1  
2896 8.7 101207.8 -0327.3  
2897 9.0 101221.6 -0359.2  
2898 9.4 101225.0 -0347.1  
2899 9.8 101247.5 -0307.5  
  
2900 8.0 101267.7 -0336.6  
2901 9.0 101252.6 -0352.1  
2902 9.3 101340.6 -0325.7  
2903 8.8 101403.5 -0352.1  
2904 8.0 101415.0 -0307.8  
2905 9.7 101436.0 -0310.9  
2906 9.7 101503.3 -0327.5  
2907 8.2 101503.7 -0347.7  
2908 9.0 101506.0 -0310.1  
2909 8.7 101519.6 -0300.7  
  
2910 9.6 101533.6 -0330.2  
2911 6.3 101606.2 -0320.6  
2912 9.2 101709.0 -0343.4  
2913 9.8 101726.3 -0333.5  
2914 8.9 101736.1 -0314.2  
2915 10.1 101753.4 -0335.9  
2916 8.9 101759.0 -0352.6  
2917 9.1 101808.0 -0356.7  
2918 9.8 101815.4 -0337.5  
2919 10.1 101820.2 -0303.0  
  
2920 8.7 101854.6 -0319.1  
2921 7.0 101927.3 -0339.1  
2922 10.1 101930.4 -0308.2  
2923 9.8 101931.6 -0328.7  
2924 8.5 101948.0 -0349.9  
2925 9.0 102015.5 -0341.8  
2926 10.1 102024.1 -0317.8  
2927 10.1 102041.2 -0326.3  
2928 9.5 102108.5 -0308.2  
2929 6.7 102122.4 -0300.2

-03 2929 10h21m



-03 2930 10h21m

2930 9.3 102136.0 -0356.9  
2931 8.7 102146.5 -0356.9  
2932 9.5 102206.1 -0357.6  
2933 9.0 102220.3 -0332.9  
2934 8.2 102229.5 -0310.2  
2935 9.5 102236.3 -0328.0  
2936 9.5 102302.0 -0343.9  
2937 9.9 102305.8 -0347.6  
2938 9.8 102404.6 -0314.7  
2939 8.6 102405.5 -0300.5  
  
2940 9.4 102414.5 -0355.5  
2941 9.5 102500.3 -0332.5  
2942 9.8 102511.4 -0343.3  
2943 8.0 102513.2 -0326.5  
2944 9.8 102528.3 -0328.9  
2945 9.1 102541.3 -0304.4  
2946 10. 102556.4 -0311.0  
2947 9.1 102616.2 -0321.7  
2948 9.1 102634.9 -0311.5  
2949 9.1 102716.5 -0321.7  
  
2950 7.0 102729.0 -0308.9  
2951 9.0 102812.8 -0315.3  
2952 9.9 102815.1 -0310.1  
2953 9.5 102816.9 -0343.7  
2954 9.5 102824.1 -0357.5  
2955 9.8 102825.3 -0336.4  
2956 9.3 102826.5 -0351.4  
2957 10. 102837.6 -0324.6  
2958 9.5 102854.0 -0311.4  
2959 9.5 102906.6 -0321.3  
  
2960 9.7 102910.1 -0305.7  
2961 9.4 102947.9 -0346.5  
2962 9.1 102958.2 -0329.9  
2963 10. 103000.0 -0321.1  
2964 9.4 103020.4 -0356.1  
2965 8.9 103020.8 -0308.4  
2966 9.3 103040.2 -0335.8  
2967 9.2 103042.0 -0317.6  
2968 9.2 103048.9 -0327.1  
2969 8.9 103131.6 -0306.1  
  
2970 9.1 103135.0 -0357.8  
2971 10. 103137.4 -0356.0  
2972 9.5 103207.6 -0307.3  
2973 10. 103224.5 -0300.3  
2974 9.1 103301.3 -0345.0  
2975 10. 103302.9 -0356.6  
2976 8.7 103347.9 -0300.7  
2977 8.2 103434.4 -0318.9  
2978 9.2 103452.3 -0304.7  
2979 9.7 103514.0 -0315.5  
  
2980 8.2 103542.8 -0339.0  
2981 9.1 103558.3 -0307.2  
2982 9.4 103603.7 -0308.4  
2983 8.6 103606.9 -0308.4  
2984 9.1 103623.1 -0353.7  
2985 9.5 103631.1 -0347.8  
2986 9.6 103650.4 -0309.1  
2987 9.8 103702.0 -0314.4  
2988 9.8 103720.0 -0303.0  
2989 9.8 103746.8 -0303.0  
  
2990 9.1 103900.1 -0325.0  
2991 9.0 103901.3 -0351.6  
2992 9.3 103928.3 -0356.9  
2993 9.8 104007.6 -0301.4  
2994 9.6 104011.5 -0310.2  
2995 10. 104021.3 -0335.5  
2996 9.0 104034.9 -0316.2  
2997 9.1 104118.8 -0355.5  
2998 9.1 104122.2 -0305.6  
2999 6.7 104154.9 -0315.7  
  
3000 9.2 104238.8 -0329.7  
3001 9.9 104257.4 -0359.2  
3002 9.3 104308.9 -0311.4  
3003 8.7 104325.4 -0358.1  
3004 9.0 104352.2 -0335.5  
3005 7.5 104357.9 -0358.1  
3006 8.5 104433.5 -0321.2  
3007 9.5 104446.5 -0334.0  
3008 10. 104515.7 -0352.1  
3009 9.8 104516.3 -0330.2  
  
3010 8.0 104527.6 -0308.8  
3011 9.6 104540.2 -0302.4  
3012 9.0 104606.1 -0330.0  
3013 8.8 104620.5 -0331.9  
3014 9.5 104626.2 -0351.6  
3015 8.5 104640.0 -0316.3  
3016 10. 104709.7 -0350.0  
3017 10. 104710.4 -0341.3  
3018 9.1 104715.2 -0300.9  
3019 9.9 104728.1 -0346.2

3020 8.7 104856.3 -0304.9  
3021 10. 104900.5 -0316.4  
3022 10. 104908.5 -0319.7  
3023 9.5 105043.3 -0356.2  
3024 8.0 105132.2 -0354.3  
3025 9.0 105135.4 -0302.9  
3026 9.8 105157.7 -0358.9  
3027 8.7 105211.4 -0325.3  
3028 8.3 105212.7 -0356.8  
3029 9.5 105255.1 -0325.8  
  
3030 9.4 105303.0 -0308.6  
3031 9.9 105305.7 -0355.0  
3032 9.6 105332.8 -0359.4  
3033 9.5 105401.4 -0314.0  
3034 10. 105417.7 -0317.9  
3035 10. 105418.0 -0330.0  
3036 9.0 105418.7 -0302.1  
3037 9.8 105420.9 -0308.6  
3038 9.0 105449.6 -0359.2  
3039 9.9 105632.9 -0316.8  
  
3040 7.3 105721.2 -0326.3  
3041 9.4 105721.4 -0335.0  
3042 9.4 105755.0 -0331.3  
3043 9.8 105755.1 -0339.9  
3044 10. 105842.6 -0329.2  
3045 9.8 105847.6 -0308.2  
3046 9.7 105911.4 -0319.2  
3047 9.7 105921.3 -0310.3  
3048 9.2 105933.9 -0318.1  
3049 9.5 105941.1 -0339.3  
  
3050 9.8 105949.4 -0318.6  
3051 9.3 105950.2 -0304.7  
3052 8.8 106009.1 -0351.6  
3053 8.2 106055.7 -0307.0  
3054 9.0 106106.1 -0336.8  
3055 9.8 106109.0 -0358.5  
3056 9.1 106112.2 -0355.7  
3057 9.4 106115.6 -0326.7  
3058 8.9 106157.9 -0317.2  
3059 8.6 106158.6 -0305.2  
  
3060 9.0 106244.9 -0309.0  
3061 9.9 106255.9 -0321.5  
3062 9.5 106422.0 -0359.6  
3063 9.0 106426.0 -0323.8  
3064 9.5 106427.1 -0316.4  
3065 8.2 106430.6 -0305.3  
3066 8.7 106432.4 -0317.5  
3067 8.5 106533.8 -0302.8  
3068 9.0 106606.4 -0358.8  
3069 9.5 106611.2 -0300.6  
  
3070 9.9 106625.4 -0348.8  
3071 9.6 106629.9 -0309.0  
3072 10. 106652.1 -0301.0  
3073 10. 106710.8 -0339.2  
3074 9.8 106712.4 -0356.8  
3075 8.8 106735.3 -0354.2  
3076 10. 106806.9 -0316.0  
3077 9.3 106807.1 -0349.7  
3078 9.8 106818.5 -0350.6  
3079 9.1 106820.1 -0342.4  
  
3080 9.5 106841.6 -0343.0  
3081 9.2 106856.4 -0308.4  
3082 9.4 106933.9 -0335.5  
3083 9.4 106908.5 -0316.3  
3084 9.8 106909.3 -0317.2  
3085 7.0 106913.0 -0310.4  
3086 8.5 106922.0 -0308.6  
3087 9.0 106927.8 -0323.4  
3088 10. 106937.8 -0350.0  
3089 9.0 106929.1 -0355.9  
  
3090 9.8 106929.0 -0346.2  
3091 9.2 106926.4 -0302.3  
3092 10. 106928.8 -0308.1  
3093 9.8 106930.7 -0354.1  
3094 9.8 106932.6 -0358.4  
3095 9.9 106935.1 -0342.3  
3096 8.5 106938.6 -0312.1  
3097 9.1 106947.4 -0335.5  
3098 8.0 106953.4 -0324.6  
3099 10. 106956.6 -0301.8  
  
3100 9.8 106954.3 -0325.4  
3101 10. 106956.9 -0308.1  
3102 9.5 106952.7 -0306.4  
3103 9.0 106954.6 -0315.2  
3104 9.2 106955.3 -0325.4  
3105 9.4 106958.1 -0354.2  
3106 9.4 106953.6 -0315.1  
3107 9.5 106950.6 -0315.1  
3108 9.3 106954.3 -0339.4  
3109 9.1 106957.7 -0335.6

3110 9.2 106954.1 -0340.6  
3111 8.9 106954.1 -0347.1  
3112 9.5 106956.8 -0307.0  
3113 9.5 106954.1 -0345.3  
3114 9.6 106954.1 -0303.5  
3115 9.2 106956.6 -0310.9  
3116 9.5 106952.2 -0320.9  
3117 9.6 106955.7 -0351.2  
3118 9.4 106943.0 -0329.7  
3119 9.1 106953.4 -0301.3  
  
3120 9.6 106953.2 -0354.0  
3121 9.9 106953.7 -0302.5  
3122 10. 106949.7 -0319.6  
3123 9.5 106952.7 -0327.2  
3124 9.3 106958.6 -0316.4  
3125 9.2 106957.7 -0319.1  
3126 9.5 106954.6 -0352.2  
3127 10. 106953.7 -0338.6  
3128 7.8 106951.3 -0338.6  
3129 9.6 106951.3 -0328.3  
  
3130 9.5 106950.0 -0336.7  
3131 8.9 106950.7 -0353.8  
3132 10. 106948.1 -0343.6  
3133 9.8 106951.6 -0350.0  
3134 8.9 106957.2 -0350.0  
3135 9.5 106953.3 -0347.3  
3136 10. 106948.1 -0347.3  
3137 8.6 106951.6 -0340.6  
3138 9.5 106958.6 -0313.3  
3139 9.0 106958.1 -0359.0  
  
3140 8.5 106940.6 -0322.1  
3141 9.2 106942.5 -0300.4  
3142 9.6 106942.6 -0307.4  
3143 9.5 106948.6 -0351.0  
3144 6.5 106944.1 -0333.4  
3145 10. 106948.5 -0311.2  
3146 9.6 106949.7 -0311.4  
3147 8.5 106927.7 -0357.0  
3148 9.7 106929.6 -0313.0  
3149 9.2 106943.1 -0319.2  
  
3150 9.0 106901.6 -0353.7  
3151 8.3 106949.1 -0347.3  
3152 8.0 106910.4 -0342.1  
3153 9.5 106925.2 -0307.3  
3154 9.3 106914.6 -0303.3  
3155 9.8 106913.0 -0340.4  
3156 9.5 106915.1 -0321.5  
3157 8.5 106915.0 -0320.0  
3158 9.0 106925.3 -0302.5  
3159 9.9 106925.6 -0319.1  
  
3160 9.1 106906.1 -0301.7  
3161 9.3 106914.6 -0314.6  
3162 9.0 106930.9 -0304.2  
3163 9.3 106942.6 -0317.7  
3164 8.0 106909.1 -0350.5  
3165 9.1 106904.1 -0347.4  
3166 9.4 106905.7 -0308.6  
3167 8.0 106940.2 -0359.7  
3168 9.6 106911.6 -0335.8  
3169 8.2 106917.7 -0342.1  
  
3170 8.9 106924.2 -0347.2  
3171 10. 106942.0 -0332.0  
3172 10. 106904.5 -0336.4  
3173 8.5 106920.1 -0353.2  
3174 9.6 106934.1 -0328.1  
3175 9.8 106936.7 -0307.2  
3176 9.5 106943.0 -0331.8  
3177 9.9 106949.4 -0302.9  
3178 10. 106953.1 -0338.8  
3179 9.6 106926.5 -0340.5  
  
3180 9.6 106940.9 -0300.4  
3181 9.8 106948.5 -0318.2  
3182 9.0 106920.1 -0359.9  
3183 10. 106910.6 -0300.1  
3184 9.6 106911.8 -0321.9  
3185 9.6 106922.6 -0312.1  
3186 9.9 106930.1 -0332.2  
3187 9.8 106924.6 -0340.7  
3188 9.5 106932.6 -0343.3  
3189 9.3 106907.9 -0350.6  
  
3190 9.5 106931.6 -0304.0  
3191 9.4 106935.1 -0341.5  
3192 9.7 106943.0 -0349.6  
3193 9.7 106940.5 -0326.7  
3194 9.5 106940.2 -0358.8  
3195 9.5 106922.9 -0328.7  
3196 9.8 106958.7 -0348.2  
3197 8.2 106902.9 -0304.4  
3198 8.8 106915.2 -0356.5  
3199 9.3 106919.1 -0346.8

3200 8.6 106947.8 -0334.1  
3201 8.5 106916.1 -0314.2  
3202 9.8 106924.5 -0339.9  
3203 9.9 106941.2 -0326.5  
3204 9.7 106947.5 -0302.9  
3205 9.8 106950.0 -0318.2  
3206 9.4 106912.4 -0348.2  
3207 9.3 106912.8 -0347.9  
3208 9.3 106926.0 -0315.7  
3209 10. 106936.5 -0357.3  
  
3210 6.8 106936.9 -0358.4  
3211 8.7 106944.2 -0318.8  
3212 8.8 106956.4 -0309.7  
3213 6.7 106942.5 -0333.8  
3214 9.8 106952.6 -0342.5  
3215 9.5 106922.1 -0316.0  
3216 8.8 106936.9 -0357.5  
3217 8.3 106920.2 -0308.5  
3218 8.6 106902.8 -0344.0  
3219 9.4 106930.8 -0345.3  
  
3220 9.0 106930.7 -0340.6  
3221 9.7 106933.9 -0347.7  
3222 9.8 106947.5 -0356.4  
3223 9.4 106940.0 -0321.1  
3224 8.8 106901.4 -0333.3  
3225 9.5 106912.9 -0349.2  
3226 9.2 106930.3 -0326.9  
3227 10. 106956.3 -0347.7  
3228 10. 106930.6 -0353.9  
3229 9.0 106933.7 -0357.2  
  
3230 8.9 106933.8 -0318.4  
3231 9.5 106930.2 -0300.4  
3232 9.3 106935.5 -0313.6  
3233 9.3 106936.7 -0331.0  
3234 9.8 106943.0 -0343.8  
3235 9.4 106918.5 -0320.7  
3236 9.4 106939.3 -0327.9  
3237 9.5 106905.7 -0347.8  
3238 9.5 106948.2 -0336.1  
3239 7.2 106946.9 -0328.7  
  
3240 8.6 106902.5 -0321.8  
3241 9.7 106911.6 -0325.0  
3242 8.8 106918.5 -0305.5  
3243 9.7 106913.4 -0307.9  
3244 9.4 106920.9 -0321.6  
3245 9.4 106930.6 -0352.0  
3246 9.0 106915.5 -0354.4  
3247 9.4 106947.0 -0310.8  
3248 10. 106907.5 -0355.8  
3249 7.8 106947.8 -0335.5  
  
3250 9.4 106900.9 -0327.6  
3251 9.8 106925.6 -0347.9  
3252 9.8 106952.0 -0354.6  
3253 9.2 106928.4 -0322.3  
3254 9.4 106955.8 -0329.5  
3255 8.8 106956.4 -0336.8  
3256 10. 106944.3 -0314.2  
3257 8.2 106950.4 -0338.7  
3258 9.3 106939.3 -0326.4  
3259 9.3 106912.8 -0337.2  
  
3260 9.4 106939.1 -0301.6  
3261 9.8 106942.6 -0344.5  
3262 7.5 106942.9 -0308.9  
3263 6.8 106943.5 -0308.4  
3264 9.0 106910.9 -0315.7  
3265 9.2 106920.6 -0344.3  
3266 10. 106924.2 -0324.5  
3267 7.3 106925.0 -0342.5  
3268 8.0 106913.5 -0311.2  
3269 9.4 106924.2 -0311.0  
  
3270 9.5 106934.3 -0316.4  
3271 7.7 106942.4 -0334.7  
3272 9.4 106943.1 -0348.4  
3273 9.1 106953.0 -0353.9  
3274 10. 106928.2 -0302.0  
3275 9.3 106944.8 -0321.9  
3276 9.5 106959.4 -0309.9  
3277 9.2 106915.5 -0355.1  
3278 9.8 106910.6 -0332.1  
3279 9.1 106912.8 -0329.7  
  
3280 8.0 106933.9 -0324.8  
3281 9.4 106937.8 -0314.4  
3282 9.8 106947.1 -0338.8  
3283 9.5 106915.0 -0342.1  
3284 9.8 106900.6 -0336.9  
3285 9.7 106903.7 -0330.2  
3286 9.5 106925.6 -0325.1  
3287 9.8 106930.0 -0344.3  
3288 9.5 106930.7 -0349.1  
3289 8.0 106941.5 -0340.7

-03 3289 12h18m



-03 3290 12h19m

3290 9.5 121915.3 -0309.0  
3291 9.5 121925.3 -0321.6  
3292 9.4 121927.1 -0332.1  
3293 9.8 121937.0 -0338.6  
3294 9.6 121948.9 -0351.5  
3295 10. 121954.3 -0325.8  
3296 9.5 122005.1 -0335.9  
3297 9.4 122022.9 -0310.5  
3298 6.5 122025.4 -0348.9  
3299 9.1 122029.4 -0352.5

3300 9.5 122031.8 -0316.3  
3301 9.4 122113.1 -0338.4  
3302 8.3 122117.5 -0329.6  
3303 9.6 122120.9 -0311.6  
3304 8.8 122142.8 -0318.3  
3305 9.8 122156.5 -0347.8  
3306 9.5 122256.6 -0341.5  
3307 9.2 122303.5 -0337.5  
3308 9.0 122320.6 -0339.0  
3309 6.7 122324.0 -0315.6

3310 8.5 122446.8 -0321.4  
3311 10. 122514.2 -0313.7  
3312 9.4 122552.1 -0331.4  
3313 8.0 122644.1 -0338.8  
3314 9.2 122725.3 -0337.0  
3315 8.7 122754.3 -0315.9  
3316 9.9 122801.2 -0300.0  
3317 10. 122813.8 -0315.2  
3318 9.7 122814.7 -0334.8  
3319 10. 122850.0 -0339.6

3320 9.8 122909.5 -0339.3  
3321 9.5 122940.4 -0317.0  
3322 8.8 122942.2 -0350.9  
3323 9.3 123033.5 -0305.3  
3324 9.2 123045.8 -0345.0  
3325 9.0 123049.4 -0310.2  
3326 9.8 123057.1 -0347.8  
3327 9.5 123108.3 -0320.5  
3328 9.4 123115.6 -0331.7  
3329 6.9 123116.4 -0334.7

3330 9.4 123120.3 -0335.0  
3331 9.4 123140.8 -0335.4  
3332 9.8 123145.7 -0359.9  
3333 9.1 123159.0 -0323.6  
3334 10. 123201.3 -0312.0  
3335 9.5 123250.8 -0315.3  
3336 9.2 123333.5 -0357.5  
3337 8.5 123358.2 -0312.0  
3338 9.6 123400.1 -0330.0  
3339 9.8 123504.2 -0325.8

3340 9.4 123513.5 -0341.2  
3341 7.5 123532.8 -0315.0  
3342 9.0 123622.6 -0336.8  
3343 9.2 123653.3 -0332.2  
3344 9.6 123703.4 -0300.4  
3345 9.5 123735.2 -0301.3  
3346 9.5 123745.8 -0333.2  
3347 10. 123746.2 -0319.8  
3348 8.2 123749.7 -0305.3  
3349 8.0 123750.9 -0305.6

3350 9.5 123812.5 -0300.7  
3351 9.6 123832.5 -0342.8  
3352 10. 123835.0 -0343.8  
3353 9.6 123841.5 -0345.5  
3354 9.5 123853.3 -0338.4  
3355 8.8 123901.5 -0347.0  
3356 9.0 123903.8 -0313.6  
3357 9.2 123908.4 -0359.1  
3358 9.8 123948.6 -0334.7  
3359 10. 123957.1 -0312.2

3360 8.0 124006.4 -0353.0  
3361 9.8 124049.8 -0356.4  
3362 9.5 124121.3 -0311.4  
3363 9.5 124126.5 -0335.7  
3364 9.6 124211.2 -0320.8  
3365 9.5 124222.9 -0357.0  
3366 9.8 124347.8 -0355.5  
3367 9.1 124348.9 -0353.5  
3368 9.5 124404.0 -0341.0  
3369 9.8 124430.4 -0346.2

3370 9.5 124453.3 -0351.5  
3371 9.1 124530.7 -0320.7  
3372 9.6 124557.4 -0350.5  
3373 6.7 124609.8 -0325.9  
3374 9.8 124730.5 -0306.9  
3375 7.3 124754.9 -0343.0  
3376 9.8 124827.3 -0320.5  
3377 9.4 124837.9 -0355.1  
3378 9.0 124901.5 -0342.1  
3379 8.5 124920.9 -0356.0

3380 9.8 124947.8 -0351.3  
3381 9.5 125003.5 -0328.4  
3382 9.4 125049.8 -0358.5  
3383 8.5 125125.9 -0309.0  
3384 6.2 125211.1 -0301.8  
3385 8.6 125216.4 -0338.8  
3386 9.8 125228.3 -0358.5  
3387 9.8 125230.0 -0331.7  
3388 10. 125232.2 -0319.8  
3389 9.4 125310.5 -0333.2

3390 9.1 125351.7 -0328.0  
3391 9.8 125418.9 -0341.8  
3392 9.3 125433.6 -0327.1  
3393 9.1 125458.1 -0313.5  
3394 10. 125500.2 -0301.0  
3395 8.8 125502.5 -0351.3  
3396 8.5 125516.8 -0349.7  
3397 9.0 125532.2 -0313.8  
3398 9.8 125537.1 -0330.5  
3399 10. 125603.9 -0304.6

3400 9.1 125606.7 -0310.2  
3401 9.5 125636.6 -0313.7  
3402 10. 125644.0 -0311.8  
3403 9.6 125738.8 -0348.3  
3404 9.3 125747.8 -0353.9  
3405 9.0 125800.9 -0325.3  
3406 8.3 125845.5 -0331.3  
3407 8.5 125900.5 -0333.5  
3408 9.8 125921.8 -0357.1  
3409 9.4 125933.5 -0315.9

3410 9.8 130003.4 -0339.1  
3411 9.5 130032.0 -0329.9  
3412 8.6 130047.3 -0355.9  
3413 9.8 130112.3 -0348.3  
3414 10. 130122.0 -0311.0  
3415 9.5 130122.4 -0333.1  
3416 9.0 130129.3 -0349.0  
3417 9.0 130139.8 -0352.9  
3418 9.0 130251.7 -0333.1  
3419 9.4 130302.5 -0323.2

3420 9.0 130329.6 -0336.2  
3421 8.6 130348.2 -0308.3  
3422 9.4 130412.1 -0315.7  
3423 8.7 130438.5 -0320.1  
3424 9.5 130440.7 -0331.2  
3425 9.6 130510.2 -0324.9  
3426 8.4 130519.6 -0307.2  
3427 9.5 130527.7 -0329.9  
3428 8.5 130610.2 -0336.1  
3429 9.8 130652.1 -0307.6

3430 9.3 130718.6 -0333.2  
3431 9.0 130723.6 -0317.3  
3432 9.3 130807.1 -0346.7  
3433 8.8 130815.0 -0356.0  
3434 9.5 130825.8 -0353.9  
3435 8.9 130933.7 -0308.4  
3436 9.8 130839.0 -0352.3  
3437 9.0 130846.2 -0355.7  
3438 9.3 130858.3 -0301.1  
3439 9.3 130902.0 -0351.0

3440 10. 130904.7 -0338.1  
3441 9.5 130912.2 -0324.9  
3442 9.0 130929.1 -0306.0  
3443 8.7 130929.5 -0357.2  
3444 10. 130939.0 -0348.8  
3445 9.5 130948.2 -0318.0  
3446 9.8 131002.1 -0345.7  
3447 5.3 131004.4 -0320.8  
3448 9.5 13115.6 -0345.3  
3449 9.8 131328.4 -0302.2

3450 9.3 131330.1 -0327.9  
3451 9.7 131334.6 -0355.6  
3452 8.8 131400.6 -0320.6  
3453 8.2 131441.0 -0353.8  
3454 9.2 131451.3 -0329.3  
3455 9.3 131500.2 -0301.3  
3456 9.8 131532.1 -0324.5  
3457 9.5 131552.4 -0310.7  
3458 8.6 131557.9 -0314.0  
3459 8.0 131636.5 -0346.4

3460 8.9 131636.7 -0327.0  
3461 8.5 131654.9 -0351.3  
3462 7.0 131656.2 -0332.6  
3463 9.5 131718.5 -0316.1  
3464 9.3 131727.6 -0325.2  
3465 9.6 131827.4 -0356.8  
3466 10. 131830.1 -0331.2  
3467 9.5 131832.9 -0356.2  
3468 9.0 131907.5 -0341.3  
3469 9.3 131910.4 -0351.0

3470 8.8 131918.9 -0352.4  
3471 9.6 131940.3 -0325.0  
3472 10. 131953.4 -0351.8  
3473 9.7 131953.8 -0325.6  
3474 9.9 132015.8 -0307.2  
3475 9.8 132039.9 -0325.4  
3476 8.0 132111.7 -0342.7  
3477 10. 132124.7 -0300.1  
3478 9.3 132133.0 -0344.2  
3479 9.6 132136.7 -0335.7

3480 9.7 132150.9 -0348.1  
3481 9.3 132153.7 -0344.8  
3482 9.1 132232.3 -0329.4  
3483 9.5 132236.7 -0327.5  
3484 9.4 132239.3 -0310.3  
3485 9.5 132239.9 -0327.6  
3486 8.8 132315.1 -0342.1  
3487 9.4 132326.2 -0305.0  
3488 9.4 132335.1 -0321.5  
3489 8.9 132355.0 -0315.3

3490 8.7 132416.6 -0355.0  
3491 9.0 132451.7 -0343.2  
3492 9.7 132507.0 -0305.2  
3493 9.0 132539.0 -0302.2  
3494 9.2 132541.0 -0314.8  
3495 9.5 132609.6 -0338.9  
3496 10. 132632.0 -0352.0  
3497 8.3 132652.6 -0337.2  
3498 9.0 132702.0 -0352.4  
3499 9.9 132728.2 -0326.0

3500 9.8 132744.8 -0311.5  
3501 8.7 132801.4 -0338.8  
3502 9.5 132815.6 -0326.8  
3503 10. 133024.0 -0352.0  
3504 9.5 133051.2 -0310.6  
3505 9.5 133117.5 -0308.2  
3506 9.5 133154.6 -0341.7  
3507 9.7 133211.7 -0330.0  
3508 9.0 133239.3 -0328.3  
3509 9.1 133244.6 -0337.6

3510 9.5 133247.5 -0256.3  
3511 9.6 133238.1 -0342.4  
3512 9.5 133348.7 -0325.5  
3513 9.2 133402.1 -0301.9  
3514 9.2 133408.2 -0315.9  
3515 8.7 133413.9 -0317.3  
3516 9.1 133419.1 -0348.0  
3517 9.7 133439.7 -0302.9  
3518 9.3 133454.5 -0343.3  
3519 9.2 133512.7 -0324.3

3520 9.8 133515.3 -0315.6  
3521 9.8 133546.0 -0338.2  
3522 7.0 133559.2 -0331.9  
3523 9.9 133635.6 -0339.3  
3524 10. 133639.1 -0330.5  
3525 9.4 133716.7 -0343.7  
3526 9.8 133722.6 -0334.5  
3527 9.8 133735.4 -0353.0  
3528 9.8 133738.8 -0345.7  
3529 9.1 133745.6 -0304.6

3530 9.9 133916.4 -0355.2  
3531 9.8 133941.0 -0337.6  
3532 8.9 133951.9 -0315.7  
3533 9.2 134015.6 -0316.0  
3534 9.5 134018.9 -0320.3  
3535 8.0 134052.6 -0320.3  
3536 9.1 134122.6 -0326.9  
3537 9.1 134309.5 -0332.9  
3538 9.1 134311.4 -0342.8  
3539 9.1 134311.7 -0328.7

3540 9.8 134338.9 -0327.4  
3541 9.4 134341.7 -0309.6  
3542 9.6 134402.9 -0358.7  
3543 9.4 134428.0 -0348.2  
3544 8.9 134451.2 -0306.6  
3545 9.7 134459.2 -0314.5  
3546 9.8 134706.4 -0325.5  
3547 7.8 134710.9 -0344.6  
3548 9.8 134742.1 -0323.1  
3549 8.3 134753.3 -0339.4

3550 9.4 134802.2 -0351.3  
3551 8.8 134809.0 -0355.5  
3552 7.5 134834.6 -0354.3  
3553 9.0 134837.3 -0331.0  
3554 9.8 134917.0 -0311.9  
3555 9.5 134946.3 -0330.4  
3556 9.5 135008.7 -0357.0  
3557 9.8 135015.0 -0346.4  
3558 8.7 135017.5 -0306.2  
3559 9.1 135025.7 -0357.3

-03 3649 14h29m

3560 8.2 135026.9 -0340.5  
3561 9.4 135142.4 -0309.0  
3562 9.7 135145.5 -0300.6  
3563 9.5 135151.0 -0243.5  
3564 9.5 135152.1 -0330.6  
3565 10. 135246.2 -0349.3  
3566 9.5 135256.5 -0352.9  
3567 9.5 135410.4 -0336.9  
3568 9.0 135518.6 -0305.2  
3569 9.0 135552.3 -0309.9

3570 9.2 135605.9 -0338.1  
3571 9.4 135619.4 -0332.8  
3572 8.5 135629.0 -0316.8  
3573 9.8 135712.5 -0347.6  
3574 9.4 135729.5 -0346.4  
3575 9.5 135746.5 -0348.5  
3576 9.4 135749.1 -0359.4  
3577 10. 135749.2 -0302.2  
3578 9.5 135804.6 -0303.3  
3579 9.5 135832.0 -0348.9

3580 8.0 135851.9 -0328.4  
3581 9.9 135952.1 -0356.0  
3582 9.3 140042.6 -0306.2  
3583 9.0 140049.6 -0352.4  
3584 9.3 140144.9 -0338.4  
3585 9.0 140147.7 -0329.8  
3586 9.8 140155.5 -0316.2  
3587 9.4 140300.6 -0309.5  
3588 9.5 140315.9 -0310.1  
3589 9.5 140326.4 -0332.0

3590 9.0 140344.9 -0340.8  
3591 9.0 140350.1 -0334.5  
3592 9.2 140351.5 -0200.9  
3593 9.8 140353.1 -0312.4  
3594 10. 140354.4 -0312.0  
3595 8.8 140620.8 -0337.7  
3596 8.7 140633.7 -0304.2  
3597 9.8 140634.7 -0330.1  
3598 9.5 140721.1 -0315.7  
3599 9.5 140758.5 -0318.5

3600 8.5 140839.0 -0311.7  
3601 8.7 140849.6 -0323.3  
3602 9.8 140914.4 -0349.4  
3603 8.0 140929.3 -0339.5  
3604 9.3 140939.3 -0340.2  
3605 9.2 140941.3 -0321.9  
3606 8.5 140948.0 -0335.4  
3607 9.8 141134.7 -0349.8  
3608 9.5 141152.5 -0357.9  
3609 9.4 141155.6 -0326.1

3610 9.1 141238.2 -0335.1  
3611 9.8 141341.6 -0355.0  
3612 9.8 141343.2 -0320.5  
3613 8.3 141345.5 -0359.8  
3614 9.6 141424.0 -0258.3  
3615 9.2 141441.0 -0333.8  
3616 9.5 141444.2 -0321.8  
3617 8.8 141459.9 -0303.7  
3618 9.6 141514.8 -0303.0  
3619 8.8 141524.9 -0345.7

3620 8.8 141637.9 -0314.6  
3621 9.2 141708.4 -0324.8  
3622 8.5 141714.0 -0321.8  
3623 9.2 141728.7 -0345.2  
3624 9.5 141729.6 -0347.2  
3625 8.0 141825.7 -0303.2  
3626 8.4 141832.9 -0348.0  
3627 9.7 141849.7 -0332.1  
3628 8.8 141917.7 -0314.7  
3629 9.0 141930.8 -0346.5

3630 9.8 142013.7 -0307.1  
3631 8.8 142052.0 -0307.3  
3632 9.8 142144.8 -0303.1  
3633 9.0 142225.4 -0323.0  
3634 6.8 142226.8 -0335.6  
3635 9.1 142228.7 -0304.3  
3636 7.7 142257.9 -0325.0  
3637 9.1 142321.1 -0309.1  
3638 9.7 142338.1 -0351.6  
3639 9.1 142346.3 -0303.7

3640 9.6 142547.3 -0340.4  
3641 8.8 142552.0 -0307.3  
3642 9.7 142608.7 -0328.7  
3643 9.4 142822.9 -0334.8  
3644 9.7 142830.3 -0307.5  
3645 8.5 142838.1 -0308.8  
3646 9.1 142854.1 -0332.0  
3647 9.8 142918.9 -0350.6  
3648 7.3 142923.3 -0339.1  
3649 6.8 142935.9 -0315.6



-03 3650 14h29m

3650 9.8 142953.4 -0309.0  
 3651 9.8 143048.3 -0302.1  
 3652 9.4 143049.1 -0304.6  
 3653 10.1 143049.2 -0300.4  
 3654 9.2 143123.8 -0302.0  
 3655 9.4 143159.0 -0305.9  
 3656 9.8 143200.1 -0300.2  
 3657 9.4 143296.2 -0305.5  
 3658 10.1 143316.4 -0302.7  
 3659 9.5 143416.9 -0316.2

3660 9.4 143421.9 -0306.0  
 3661 9.1 143558.9 -0308.1  
 3662 8.9 143558.5 -0319.7  
 3663 9.1 143640.7 -0300.8  
 3664 8.7 143703.7 -0300.8  
 3665 9.5 143815.6 -0308.8  
 3666 9.7 143818.2 -0306.9  
 3667 8.8 143820.8 -0307.5  
 3668 9.8 143829.5 -0302.9  
 3669 9.5 143837.3 -0305.6

3670 9.5 143838.2 -0317.8  
 3671 9.9 143853.1 -0301.2  
 3672 9.1 143853.4 -0304.1  
 3673 8.0 143938.4 -0337.3  
 3674 9.0 144004.7 -0302.3  
 3675 8.6 144135.0 -0305.8  
 3676 9.5 144150.7 -0307.5  
 3677 9.3 144212.1 -0304.3  
 3678 9.4 144212.8 -0300.5  
 3679 9.2 144242.7 -0316.1

3680 7.9 144318.4 -0331.8  
 3681 9.5 144358.9 -0305.7  
 3682 8.5 144413.3 -0302.6  
 3683 8.7 144441.9 -0305.2  
 3684 9.4 144445.2 -0304.1  
 3685 9.5 144466.9 -0310.1  
 3686 9.1 144466.9 -0305.6  
 3687 7.7 144724.3 -0302.4  
 3688 9.0 144743.3 -0306.9  
 3689 9.3 144749.3 -0310.9

3690 9.5 144806.2 -0300.0  
 3691 2.0 144811.7 -0307.5  
 3692 2.6 144825.3 -0307.3  
 3693 9.8 144831.6 -0308.8  
 3694 8.7 144846.4 -0308.6  
 3695 9.3 144914.8 -0320.2  
 3696 4.8 144936.3 -0305.1  
 3697 9.4 144944.7 -0312.7  
 3698 7.6 145008.9 -0316.6  
 3699 9.7 145050.4 -0331.9

3700 9.6 145192.4 -0319.5  
 3701 9.4 145193.9 -0323.2  
 3702 9.4 145153.4 -0309.1  
 3703 9.6 145158.7 -0307.7  
 3704 9.3 145257.8 -0306.5  
 3705 9.6 145311.7 -0305.5  
 3706 8.8 145318.0 -0302.7  
 3707 8.9 145336.3 -0301.6  
 3708 9.1 145342.7 -0307.0  
 3709 9.7 145344.6 -0302.3

3710 9.7 145409.4 -0303.4  
 3711 9.8 145439.6 -0304.9  
 3712 9.5 145447.7 -0307.3  
 3713 8.8 145504.0 -0309.5  
 3714 9.4 145505.6 -0307.1  
 3715 9.4 145528.7 -0308.4  
 3716 9.5 145603.0 -0307.3  
 3717 9.3 145611.0 -0301.7  
 3718 9.9 145708.6 -0307.7  
 3719 9.5 145722.6 -0304.0

3720 9.5 145731.1 -0317.1  
 3721 9.4 145743.9 -0309.1  
 3722 9.9 145743.9 -0301.1  
 3723 9.7 145752.5 -0304.6  
 3724 9.5 145774.6 -0309.7  
 3725 8.8 145805.8 -0308.2  
 3726 8.9 145824.0 -0306.2  
 3727 8.9 145843.1 -0312.7  
 3728 9.8 145939.0 -0305.3  
 3729 9.5 150020.9 -0308.7

3730 7.5 150032.0 -0311.9  
 3731 10.1 150054.1 -0305.9  
 3732 9.5 150122.0 -0313.4  
 3733 8.0 150123.0 -0327.1  
 3734 9.5 150154.8 -0313.4  
 3735 9.0 150159.0 -0307.9  
 3736 8.0 150202.7 -0317.2  
 3737 9.8 150200.7 -0316.6  
 3738 9.3 150263.3 -0300.1  
 3739 9.6 150307.1 -0307.9

3740 8.4 150333.3 -0300.8  
 3741 9.5 150417.5 -0307.8  
 3742 9.5 150417.5 -0307.8  
 3743 9.5 150437.6 -0309.6  
 3744 8.0 150502.1 -0304.5  
 3745 9.1 150505.4 -0305.5  
 3746 9.2 150511.9 -0315.5  
 3747 9.0 150521.0 -0307.1  
 3748 9.1 150519.8 -0307.3  
 3749 9.7 150530.6 -0307.1

3750 9.7 150759.0 -0302.7  
 3751 9.8 150854.4 -0305.5  
 3752 10.1 150832.7 -0305.9  
 3753 9.6 150854.4 -0308.4  
 3754 9.5 150877.7 -0311.7  
 3755 9.7 150925.6 -0306.5  
 3756 9.5 150934.2 -0319.5  
 3757 7.3 150930.7 -0308.7  
 3758 7.3 151005.4 -0307.7  
 3759 9.8 151024.1 -0302.1

3760 9.4 151119.2 -0312.1  
 3761 10.1 151155.1 -0305.3  
 3762 9.1 151146.3 -0307.9  
 3763 9.0 151159.9 -0316.8  
 3764 9.4 151217.9 -0307.1  
 3765 9.2 151217.9 -0311.7  
 3766 9.5 151251.5 -0302.5  
 3767 9.6 151351.7 -0309.5  
 3768 9.8 151402.1 -0316.8  
 3769 9.8 151405.2 -0331.9

3770 9.0 151418.6 -0333.7  
 3771 9.5 151427.8 -0304.0  
 3772 9.8 151456.7 -0303.3  
 3773 9.5 151522.3 -0302.7  
 3774 9.3 151531.7 -0308.4  
 3775 9.1 151531.7 -0308.4  
 3776 9.0 151549.1 -0309.3  
 3777 8.7 151608.6 -0304.5  
 3778 9.6 151611.6 -0308.2  
 3779 9.0 151809.6 -0309.4

3780 9.0 151809.1 -0304.7  
 3781 9.4 151829.0 -0305.6  
 3782 9.5 151844.2 -0305.9  
 3783 9.6 151926.7 -0317.8  
 3784 8.5 151928.6 -0302.2  
 3785 9.8 151957.3 -0304.5  
 3786 10.1 152002.6 -0304.0  
 3787 10.1 152006.9 -0304.6  
 3788 9.9 152011.8 -0304.0  
 3789 8.8 152014.4 -0305.8

3790 9.0 152066.3 -0309.3  
 3791 9.5 152113.8 -0302.4  
 3792 9.1 152113.8 -0302.4  
 3793 9.3 152208.1 -0301.7  
 3794 9.0 152208.1 -0302.9  
 3795 9.7 152202.6 -0302.6  
 3796 9.6 152247.4 -0302.2  
 3797 8.7 152268.9 -0302.7  
 3798 9.5 152344.0 -0302.3  
 3799 9.5 152344.0 -0302.3

3800 8.4 152337.5 -0306.1  
 3801 9.0 152338.0 -0304.0  
 3802 9.0 152358.1 -0304.7  
 3803 9.3 152358.1 -0307.8  
 3804 9.5 152358.1 -0307.8  
 3805 9.5 152358.1 -0307.8  
 3806 7.1 152358.1 -0307.8  
 3807 9.1 152358.1 -0307.8  
 3808 9.2 152358.1 -0307.8  
 3809 9.0 152358.1 -0307.8

3810 9.1 152358.1 -0307.8  
 3811 9.8 152358.1 -0307.8  
 3812 9.1 152358.1 -0307.8  
 3813 9.4 152358.1 -0307.8  
 3814 9.5 152358.1 -0307.8  
 3815 9.0 152358.1 -0307.8  
 3816 9.6 152358.1 -0307.8  
 3817 9.9 152358.1 -0307.8  
 3818 9.1 152358.1 -0307.8  
 3819 9.5 152358.1 -0307.8

3820 8.0 152358.1 -0307.8  
 3821 9.5 152358.1 -0307.8  
 3822 9.5 152358.1 -0307.8  
 3823 8.3 152358.1 -0307.8  
 3824 8.0 152358.1 -0307.8  
 3825 8.0 152358.1 -0307.8  
 3826 9.4 152358.1 -0307.8  
 3827 9.4 152358.1 -0307.8  
 3828 9.8 152358.1 -0307.8  
 3829 6.0 154101.9 -0307.1

3830 9.4 154140.6 -0311.7  
 3831 9.5 154145.2 -0312.6  
 3832 9.0 154155.2 -0302.5  
 3833 7.2 154221.8 -0308.3  
 3834 9.7 154257.9 -0307.2  
 3835 9.5 154333.4 -0304.1  
 3836 8.0 154439.6 -0305.1  
 3837 9.2 154426.9 -0302.5  
 3838 9.4 154627.8 -0307.3  
 3839 9.5 154650.9 -0319.3

3840 9.5 154707.6 -0307.2  
 3841 9.3 154719.4 -0300.5  
 3842 9.3 154719.6 -0305.6  
 3843 9.2 154720.2 -0305.9  
 3844 9.6 154724.4 -0306.0  
 3845 9.8 154733.8 -0304.0  
 3846 8.5 154753.0 -0308.8  
 3847 8.8 154919.5 -0305.0  
 3848 9.4 155030.6 -0305.8  
 3849 9.3 155037.5 -0307.2

3850 9.4 155050.6 -0305.8  
 3851 9.0 155105.9 -0303.5  
 3852 9.8 155222.9 -0307.5  
 3853 8.8 155228.7 -0302.2  
 3854 9.8 155228.9 -0301.0  
 3855 9.4 155249.8 -0305.7  
 3856 9.8 155252.5 -0305.1  
 3857 8.0 155306.2 -0308.3  
 3858 9.3 155340.2 -0301.4  
 3859 7.0 155405.3 -0321.3

3860 9.8 155414.4 -0306.5  
 3861 9.2 155437.8 -0307.6  
 3862 9.8 155449.1 -0303.1  
 3863 9.7 155453.5 -0317.7  
 3864 8.0 155505.3 -0315.1  
 3865 9.6 155510.7 -0313.7  
 3866 9.3 155609.9 -0304.5  
 3867 9.1 155633.4 -0301.1  
 3868 9.8 155635.7 -0302.9  
 3869 9.5 155705.9 -0305.0

3870 6.8 155732.7 -0307.4  
 3871 9.8 155755.0 -0319.8  
 3872 9.2 155815.3 -0302.5  
 3873 9.6 155903.0 -0302.2  
 3874 9.8 155920.7 -0315.0  
 3875 7.5 155925.0 -0308.9  
 3876 8.0 155930.4 -0305.9  
 3877 9.8 160011.4 -0307.1  
 3878 9.9 160017.8 -0311.7  
 3879 8.8 160058.8 -0309.5

3880 9.6 160128.4 -0307.5  
 3881 9.4 160151.4 -0305.3  
 3882 8.7 160201.2 -0309.8  
 3883 9.2 160208.6 -0302.2  
 3884 6.1 160215.1 -0304.7  
 3885 9.7 160244.3 -0307.9  
 3886 9.0 160244.3 -0315.9  
 3887 9.3 160250.8 -0304.2  
 3888 8.2 160326.8 -0306.4  
 3889 9.8 160345.4 -0305.0

3890 8.7 160507.2 -0308.9  
 3891 6.5 160518.9 -0305.8  
 3892 9.5 160520.4 -0306.1  
 3893 9.4 160529.3 -0304.9  
 3894 9.7 160532.3 -0304.0  
 3895 8.8 160547.4 -0313.8  
 3896 7.3 160548.8 -0307.7  
 3897 9.4 160611.9 -0302.9  
 3898 9.4 160612.1 -0307.6  
 3899 8.5 160612.6 -0304.0

3900 9.3 160612.8 -0312.4  
 3901 8.0 160629.3 -0307.0  
 3902 8.5 160641.2 -0305.8  
 3903 3.0 160644.8 -0318.8  
 3904 9.5 160714.9 -0309.7  
 3905 9.3 160736.9 -0301.1  
 3906 9.2 160742.9 -0308.6  
 3907 9.5 160827.2 -0305.6  
 3908 9.2 160907.7 -0301.1  
 3909 9.6 160914.5 -0304.1

3910 6.0 160917.6 -0305.3  
 3911 9.5 160942.4 -0304.7  
 3912 9.3 160944.8 -0304.8  
 3913 9.5 160947.9 -0305.0  
 3914 9.3 161006.8 -0309.5  
 3915 8.7 161007.6 -0304.5  
 3916 9.0 161009.4 -0305.2  
 3917 10.1 161027.0 -0305.8  
 3918 9.4 161039.7 -0311.1  
 3919 9.3 161127.7 -0305.8

-03 4009 16h43m

3920 9.0 161229.8 -0337.5  
 3921 9.0 161307.7 -0334.6  
 3922 9.3 161316.2 -0308.1  
 3923 9.5 161316.9 -0316.4  
 3924 9.0 161330.2 -0330.7  
 3925 9.5 161349.4 -0318.0  
 3926 8.9 161423.8 -0308.4  
 3927 9.5 161435.3 -0350.9  
 3928 9.4 161449.5 -0310.7  
 3929 8.0 161455.5 -0354.0

3930 8.9 161457.9 -0352.1  
 3931 9.5 161500.3 -0309.8  
 3932 9.5 161518.7 -0312.3  
 3933 9.6 161603.2 -0314.4  
 3934 9.5 161635.6 -0304.4  
 3935 9.8 161642.4 -0316.6  
 3936 9.6 161707.6 -0329.9  
 3937 8.7 161713.1 -0307.2  
 3938 9.5 161739.9 -0305.3  
 3939 7.7 161756.6 -0331.8

3940 8.9 161828.2 -0311.2  
 3941 9.5 161851.4 -0328.3  
 3942 9.1 161911.0 -0327.5  
 3943 8.8 161946.9 -0312.7  
 3944 9.5 161959.3 -0358.8  
 3945 9.9 162030.1 -0304.9  
 3946 9.6 162031.8 -0315.4  
 3947 9.4 162038.3 -0305.3  
 3948 9.7 162123.8 -0301.5  
 3949 9.5 162154.2 -0337.6

3950 9.4 162212.8 -0306.1  
 3951 8.8 162306.4 -0305.7  
 3952 9.0 162306.6 -0339.8  
 3953 8.0 162308.3 -0321.7  
 3954 9.5 162312.9 -0304.2  
 3955 9.1 162442.8 -0305.4  
 3956 9.5 162443.9 -0332.7  
 3957 9.6 162507.7 -0314.7  
 3958 9.4 162519.3 -0357.4  
 3959 9.5 162537.3 -0300.1

3960 9.4 162541.0 -0336.0  
 3961 7.0 162545.8 -0357.2  
 3962 8.0 162552.5 -0313.9  
 3963 9.8 162558.4 -0304.5  
 3964 8.0 162621.5 -0329.1  
 3965 9.1 162622.4 -0318.4  
 3966 9.3 162625.6 -0318.1  
 3967 8.7 162645.7 -0304.2  
 3968 9.1 162705.1 -0353.9  
 3969 9.5 162836.2 -0307.1

3970 9.5 162900.7 -0329.0  
 3971 9.0 162918.3 -0320.6  
 3972 9.5 163007.9 -0331.1  
 3973 8.8 163020.1 -0324.8  
 3974 8.0 163205.3 -0319.8  
 3975 9.8 163213.6 -0355.5  
 3976 9.5 163224.6 -0331.7  
 3977 9.1 163225.5 -0356.7  
 3978 8.0 163344.0 -0355.5  
 3979 9.4 163442.6 -0328.3

3980 9.5 163444.5 -0332.9  
 3981 9.5 163519.8 -0302.7  
 3982 7.3 163533.9 -0352.1  
 3983 9.5 163617.0 -0304.5  
 3984 9.1 163624.0 -0308.8  
 3985 9.8 163628.1 -0305.0  
 3986 9.5 163654.9 -0309.2  
 3987 9.3 163719.0 -0328.8  
 3988 8.4 163745.9 -0306.3  
 3989 9.5 163825.0 -0308.7

3990 9.6 163827.8 -0313.4  
 3991 9.1 163828.1 -0306.8  
 3992 9.4 163844.5 -0304.9  
 3993 9.3 163936.5 -0306.9  
 3994 9.3 164029.8 -0300.6  
 3995 9.3 164041.4 -0308.0  
 3996 4.0 164041.9 -0315.2  
 3997 9.3 164042.7 -0304.1  
 3998 9.3 164102.0 -0308.9  
 3999 9.2 164104.0 -0352.7

4000 9.6 164104.8 -0304.1  
 4001 9.0 164107.6 -0357.8  
 4002 8.3 164111.9 -0321.1  
 4003 9.4 164115.4 -0316.2  
 4004 9.3 164221.5 -0300.3  
 4005 9.7 164222.0 -0352.1  
 4006 9.7 164239.8 -0306.6  
 4007 8.6 164243.7 -0331.3  
 4008 8.0 164253.2 -0322.5  
 4009 8.3 164303.5 -0305.6



-03 4010 16h43m

4010 9.5 164310.4 -0358.8  
4011 8.2 164332.1 -0300.3  
4012 9.8 164338.8 -0333.1  
4013 9.8 164343.2 -0325.1  
4014 6.0 164442.4 -0343.0  
4015 9.3 164457.9 -0320.0  
4016 9.5 164515.5 -0333.8  
4017 9.5 164516.5 -0359.0  
4018 9.4 164536.3 -0326.2  
4019 9.5 164544.3 -0321.3  
  
4020 8.3 164554.3 -0316.6  
4021 9.5 164607.3 -0319.7  
4022 9.5 164625.7 -0332.7  
4023 7.3 164648.0 -0355.3  
4024 9.4 164710.0 -0358.8  
4025 9.6 164732.7 -0301.2  
4026 9.1 164757.1 -0320.7  
4027 9.5 164803.8 -0329.1  
4028 8.8 164847.0 -0323.6  
4029 9.4 164851.2 -0356.1  
  
4030 9.1 164923.8 -0335.2  
4031 20.0 164929.5 -0352.0  
4032 10.1 164949.9 -0302.0  
4033 9.6 164951.4 -0312.5  
4034 9.8 165022.4 -0347.4  
4035 8.9 165038.5 -0300.4  
4036 9.2 165055.8 -0326.7  
4037 9.4 165139.4 -0340.0  
4038 9.2 165152.2 -0303.5  
4039 9.7 165201.6 -0329.8  
  
4040 7.3 165210.2 -0359.4  
4041 9.9 165244.6 -0334.2  
4042 8.8 165249.9 -0359.1  
4043 9.5 165251.9 -0352.8  
4044 9.5 165258.4 -0303.8  
4045 9.2 165321.6 -0301.6  
4046 9.2 165330.8 -0359.9  
4047 9.4 165336.0 -0357.2  
4048 8.2 165403.1 -0333.0  
4049 9.2 165404.3 -0349.7  
  
4050 8.9 165533.9 -0342.8  
4051 9.7 165549.2 -0352.6  
4052 9.4 165638.4 -0347.8  
4053 9.3 165701.1 -0326.7  
4054 9.2 165746.0 -0355.6  
4055 9.4 165755.2 -0337.1  
4056 9.5 165814.5 -0313.7  
4057 9.7 165818.5 -0316.3  
4058 9.8 165818.9 -0347.8  
4059 9.8 165830.4 -0350.7  
  
4060 9.0 165850.5 -0308.5  
4061 9.8 165946.6 -0323.5  
4062 9.2 170103.2 -0306.7  
4063 6.7 170116.6 -0340.9  
4064 9.4 170131.9 -0359.2  
4065 9.8 170135.3 -0328.9  
4066 9.7 170203.9 -0300.6  
4067 9.8 170324.2 -0340.5  
4068 9.4 170324.2 -0358.3  
4069 9.6 170343.1 -0319.3  
  
4070 9.8 170350.9 -0308.6  
4071 9.7 170407.2 -0335.6  
4072 7.8 170412.1 -0309.8  
4073 9.5 170446.0 -0309.1  
4074 8.2 170506.4 -0352.5  
4075 9.5 170555.3 -0343.1  
4076 9.5 170557.9 -0355.3  
4077 9.0 170617.4 -0343.4  
4078 9.8 170630.0 -0303.3  
4079 7.2 170644.3 -0359.1  
  
4080 9.5 170649.9 -0350.9  
4081 9.5 170740.9 -0334.3  
4082 9.4 170758.8 -0306.5  
4083 9.0 170841.3 -0326.6  
4084 9.5 170857.3 -0356.8  
4085 9.1 170920.7 -0328.1  
4086 10.1 171020.2 -0315.3  
4087 7.3 171211.9 -0353.5  
4088 9.5 171233.7 -0308.0  
4089 9.6 171310.1 -0307.1  
  
4090 9.2 171311.9 -0354.2  
4091 8.6 171434.8 -0327.7  
4092 8.4 171507.7 -0335.3  
4093 9.4 171511.6 -0302.3  
4094 9.3 171637.0 -0308.2  
4095 9.2 171651.1 -0345.6  
4096 9.3 171757.8 -0309.0  
4097 8.5 171805.6 -0314.6  
4098 9.3 171824.0 -0340.9  
4099 9.8 171854.4 -0319.9

4100 9.3 171859.1 -0325.3  
4101 9.5 171906.8 -0320.4  
4102 9.4 171908.1 -0357.0  
4103 9.4 171917.8 -0309.8  
4104 9.2 171921.0 -0303.7  
4105 8.2 172007.9 -0300.1  
4106 8.9 172049.8 -0326.5  
4107 9.7 172059.9 -0341.3  
4108 10.1 172116.7 -0304.3  
4109 9.2 172120.6 -0356.1  
  
4110 9.7 172123.2 -0306.9  
4111 9.6 172135.5 -0343.0  
4112 9.3 172227.6 -0312.8  
4113 9.5 172240.4 -0311.0  
4114 9.5 172257.6 -0336.3  
4115 9.6 172305.2 -0309.8  
4116 8.3 172311.0 -0347.9  
4117 9.3 172347.3 -0328.5  
4118 9.4 172347.7 -0333.9  
4119 9.8 172350.0 -0341.2  
  
4120 8.6 172356.0 -0326.4  
4121 9.5 172426.7 -0317.8  
4122 9.8 172433.7 -0359.5  
4123 9.9 172506.0 -0340.6  
4124 9.8 172507.9 -0310.1  
4125 8.1 172521.0 -0314.9  
4126 9.4 172548.5 -0337.6  
4127 8.7 172550.1 -0319.7  
4128 9.7 172702.1 -0344.3  
4129 8.9 172729.2 -0333.6  
  
4130 10.1 172734.6 -0307.0  
4131 10.1 172824.8 -0308.3  
4132 7.9 172831.5 -0335.3  
4133 9.3 172843.2 -0328.3  
4134 9.8 172844.7 -0315.8  
4135 9.0 172915.4 -0315.1  
4136 9.5 172918.2 -0315.8  
4137 9.1 172922.6 -0331.4  
4138 9.3 172931.7 -0333.6  
4139 9.6 172950.6 -0341.0  
  
4140 9.1 172952.7 -0323.6  
4141 9.4 172954.8 -0338.1  
4142 20.0 172958.8 -0309.5  
4143 3.0 173009.9 -0340.5  
4144 9.3 173037.3 -0347.6  
4145 9.5 173038.7 -0301.8  
4146 9.3 173055.4 -0302.8  
4147 9.3 173155.2 -0332.3  
4148 9.6 173220.6 -0331.6  
4149 9.4 173226.0 -0359.6  
  
4150 7.3 173232.5 -0327.0  
4151 9.6 173235.1 -0325.2  
4152 9.5 173252.5 -0352.2  
4153 9.0 173301.6 -0324.2  
4154 9.5 173412.6 -0313.7  
4155 8.7 173419.3 -0345.7  
4156 10.1 173455.4 -0359.9  
4157 8.7 173458.4 -0344.2  
4158 9.5 173459.3 -0353.0  
4159 8.6 173601.2 -0308.5  
  
4160 7.5 173607.3 -0350.5  
4161 9.8 173622.9 -0305.9  
4162 9.7 173636.6 -0303.5  
4163 9.8 173627.5 -0357.6  
4164 9.2 173648.1 -0347.2  
4165 9.2 173719.0 -0346.9  
4166 9.8 173730.6 -0357.0  
4167 9.2 173740.0 -0302.4  
4168 7.6 173757.4 -0326.5  
4169 9.5 173824.3 -0347.7  
  
4170 9.2 173829.6 -0325.7  
4171 8.2 173856.5 -0351.0  
4172 8.4 173902.2 -0359.7  
4173 9.6 173903.8 -0306.9  
4174 9.4 173909.8 -0312.7  
4175 9.8 173914.4 -0301.6  
4176 9.1 173954.3 -0319.2  
4177 8.5 174005.2 -0335.1  
4178 9.3 174058.5 -0309.6  
4179 9.3 174136.8 -0308.2  
  
4180 9.4 174203.3 -0329.8  
4181 9.1 174227.1 -0310.1  
4182 9.2 174242.9 -0352.2  
4183 9.4 174320.4 -0329.6  
4184 9.8 174342.0 -0331.6  
4185 9.8 174409.6 -0314.6  
4186 9.2 174411.3 -0327.1  
4187 9.1 174414.9 -0326.7  
4188 9.7 174426.0 -0324.1  
4189 8.3 174451.5 -0357.7

4190 9.5 174452.4 -0331.4  
4191 9.1 174455.6 -0319.4  
4192 8.0 174459.5 -0308.7  
4193 7.3 174510.0 -0331.4  
4194 8.8 174512.2 -0334.8  
4195 9.4 174516.5 -0302.6  
4196 9.2 174527.7 -0342.2  
4197 9.6 174544.8 -0308.6  
4198 9.0 174554.0 -0352.6  
4199 8.5 174619.2 -0305.1  
  
4200 7.2 174652.9 -0325.5  
4201 9.5 174711.0 -0351.0  
4202 10.1 174749.0 -0301.8  
4203 9.6 174806.9 -0320.7  
4204 9.6 174812.8 -0310.3  
4205 9.8 174833.4 -0328.0  
4206 9.5 174900.0 -0345.3  
4207 9.5 174918.5 -0326.7  
4208 9.5 174927.4 -0325.3  
4209 9.5 175020.4 -0325.9  
  
4210 9.3 175024.1 -0314.6  
4211 9.5 175052.5 -0348.8  
4212 8.8 175115.9 -0329.6  
4213 8.8 175144.3 -0342.4  
4214 10.1 175145.5 -0336.1  
4215 9.4 175207.8 -0312.7  
4216 9.0 175218.5 -0347.7  
4217 5.2 175249.9 -0340.4  
4218 9.7 175255.2 -0348.8  
4219 8.0 175256.0 -0357.8  
  
4220 9.1 175321.5 -0338.6  
4221 9.0 175323.5 -0330.9  
4222 9.6 175348.8 -0305.6  
4223 9.1 175424.9 -0343.4  
4224 9.8 175429.5 -0307.1  
4225 6.5 175452.9 -0309.1  
4226 9.8 175507.0 -0348.8  
4227 9.1 175508.7 -0324.9  
4228 10.1 175523.5 -0306.6  
4229 9.2 175532.0 -0357.2  
  
4230 9.5 175543.8 -0307.3  
4231 8.5 175545.9 -0343.3  
4232 8.9 175615.2 -0324.8  
4233 8.8 175726.5 -0301.5  
4234 9.1 175742.9 -0323.5  
4235 9.3 175800.0 -0339.9  
4236 8.9 175852.6 -0302.7  
4237 7.0 175919.0 -0314.7  
4238 9.6 180028.0 -0321.3  
4239 9.4 180034.6 -0303.9  
  
4240 9.2 180057.6 -0319.5  
4241 9.8 180142.7 -0345.0  
4242 8.3 180143.7 -0300.0  
4243 9.5 180205.4 -0321.0  
4244 8.8 180212.1 -0354.8  
4245 9.3 180216.6 -0303.2  
4246 9.8 180241.5 -0328.5  
4247 9.3 180259.3 -0340.3  
4248 9.5 180329.5 -0322.0  
4249 9.3 180333.0 -0324.3  
  
4250 9.4 180357.6 -0354.6  
4251 9.3 180452.4 -0324.4  
4252 8.1 180459.0 -0320.8  
4253 9.8 180540.5 -0319.6  
4254 8.2 180541.8 -0325.9  
4255 8.7 180558.9 -0301.5  
4256 9.0 180621.1 -0340.8  
4257 7.5 180805.0 -0323.7  
4258 9.6 180810.6 -0316.5  
4259 6.6 180820.2 -0339.1  
  
4260 9.3 180832.1 -0341.5  
4261 9.5 180856.9 -0341.3  
4262 9.4 180902.8 -0330.1  
4263 6.5 180916.8 -0302.4  
4264 8.9 181052.8 -0320.9  
4265 9.1 181108.3 -0357.9  
4266 9.8 181115.9 -0324.7  
4267 8.0 181124.4 -0313.5  
4268 9.5 181143.0 -0322.4  
4269 9.3 181202.3 -0337.6  
  
4270 9.5 181327.3 -0358.4  
4271 9.2 181334.6 -0321.4  
4272 8.0 181346.6 -0309.8  
4273 8.0 181358.8 -0356.1  
4274 9.5 181520.4 -0356.5  
4275 9.4 181529.8 -0334.4  
4276 9.5 181541.3 -0314.8  
4277 6.5 181625.8 -0339.1  
4278 9.5 181644.3 -0355.5  
4279 8.3 181659.7 -0307.6

4280 9.6 181723.6 -0318.2  
4281 9.8 181724.6 -0357.4  
4282 8.3 181746.2 -0325.4  
4283 8.7 181755.2 -0334.5  
4284 9.0 181811.6 -0347.7  
4285 9.5 181905.4 -0314.4  
4286 9.8 181926.8 -0351.1  
4287 9.1 181955.2 -0329.0  
4288 7.5 182047.6 -0356.7  
4289 9.1 182128.3 -0342.8  
  
4290 9.3 182147.1 -0327.3  
4291 9.8 182159.4 -0345.2  
4292 9.5 182226.3 -0338.9  
4293 9.8 182254.4 -0348.5  
4294 9.8 182304.8 -0333.1  
4295 9.3 182330.3 -0357.6  
4296 9.0 182354.3 -0358.8  
4297 9.6 182400.3 -0359.8  
4298 9.3 182415.8 -0345.8  
4299 8.8 182422.7 -0341.9  
  
4300 9.8 182429.2 -0358.3  
4301 9.2 182438.6 -0306.3  
4302 9.5 182449.2 -0331.0  
4303 9.3 182457.7 -0345.2  
4304 9.5 182506.3 -0347.6  
4305 9.1 182649.7 -0318.4  
4306 9.8 182651.6 -0335.5  
4307 9.8 182659.6 -0320.2  
4308 9.2 182706.5 -0350.7  
4309 8.8 182711.1 -0302.6  
  
4310 9.8 182711.2 -0324.3  
4311 9.5 182720.7 -0324.7  
4312 9.2 182723.2 -0328.7  
4313 9.8 182729.1 -0314.2  
4314 9.1 182835.8 -0330.4  
4315 9.8 182848.7 -0315.9  
4316 6.5 182856.1 -0311.5  
4317 9.1 182907.3 -0342.5  
4318 9.5 182915.1 -0316.8  
4319 8.7 182920.0 -0337.1  
  
4320 9.2 182923.3 -0354.5  
4321 9.0 182945.7 -0320.4  
4322 9.1 182949.6 -0320.4  
4323 9.5 182950.9 -0311.5  
4324 9.6 182952.7 -0348.6  
4325 7.2 182954.2 -0302.2  
4326 9.4 183004.1 -0316.0  
4327 8.9 183012.6 -0351.8  
4328 9.9 183016.6 -0315.0  
4329 9.6 183025.8 -0302.5  
  
4330 9.9 183033.2 -0307.9  
4331 6.5 183046.7 -0318.8  
4332 8.3 183048.1 -0345.5  
4333 9.1 183053.2 -0323.8  
4334 9.0 183059.7 -0348.6  
4335 9.5 183102.7 -0355.7  
4336 9.8 183134.2 -0307.9  
4337 8.8 183141.1 -0316.7  
4338 8.8 183208.7 -0314.9  
4339 9.5 183219.1 -0324.7  
  
4340 9.8 183224.6 -0305.1  
4341 9.5 183225.9 -0303.3  
4342 9.4 183228.7 -0354.9  
4343 9.5 183239.6 -0314.4  
4344 9.7 183245.4 -0357.0  
4345 9.7 183245.6 -0332.8  
4346 9.4 183302.2 -0307.3  
4347 8.7 183310.1 -0308.8  
4348 9.7 183311.1 -0332.8  
4349 9.5 183317.6 -0348.7  
  
4350 9.2 183323.1 -0330.4  
4351 8.3 183335.1 -0356.8  
4352 9.0 183338.1 -0315.2  
4353 9.1 183342.1 -0354.9  
4354 7.2 183357.3 -0314.7  
4355 9.4 183403.9 -0312.7  
4356 9.8 183430.7 -0351.1  
4357 4.4 183443.1 -0355.6  
4358 9.5 183451.6 -0359.8  
4359 9.8 183520.6 -0304.6  
  
4360 8.5 183541.5 -0319.6  
4361 9.5 183547.0 -0346.5  
4362 9.6 183548.7 -0340.2  
4363 9.5 183602.0 -0347.6  
4364 9.3 183627.0 -0305.7  
4365 9.3 183633.5 -0321.6  
4366 9.5 183642.0 -0351.1  
4367 8.5 183654.4 -0317.6  
4368 8.8 183658.7 -0325.4  
4369 8.5 183711.5 -0345.1

-03 4369 18h37m



-03 4370 18h37m

4370 9.4 183712.5 -0341.6  
4371 9.5 183714.9 -0305.1  
4372 9.8 183742.0 -0306.5  
4373 8.0 183750.0 -0322.5  
4374 9.6 183806.7 -0328.1  
4375 9.5 183812.3 -0312.2  
4376 9.4 183856.0 -0303.4  
4377 9.8 183858.4 -0312.1  
4378 8.6 183919.5 -0356.2  
4379 9.4 183945.0 -0355.3  
  
4380 8.5 183950.0 -0347.1  
4381 9.2 184050.3 -0325.4  
4382 8.0 184101.0 -0315.8  
4383 9.1 184118.2 -0311.3  
4384 9.4 184147.9 -0307.0  
4385 9.1 184149.2 -0311.8  
4386 9.5 184156.0 -0333.7  
4387 9.3 184224.9 -0312.5  
4388 6.8 184230.5 -0356.9  
4389 9.7 184301.8 -0308.2  
  
4390 7.3 184328.7 -0325.4  
4391 9.8 184333.1 -0340.6  
4392 6.5 184345.1 -0328.7  
4393 9.2 184356.1 -0337.5  
4394 9.4 184401.0 -0337.7  
4395 9.0 184427.1 -0341.6  
4396 10.1 184429.5 -0351.7  
4397 7.2 184446.8 -0353.8  
4398 9.2 184452.6 -0347.8  
4399 9.8 184535.5 -0303.4  
  
4400 9.4 184545.2 -0346.9  
4401 8.4 184551.0 -0343.3  
4402 9.5 184600.6 -0352.8  
4403 9.5 184622.1 -0341.9  
4404 9.0 184625.8 -0352.1  
4405 9.3 184626.8 -0354.6  
4406 9.7 184632.8 -0337.8  
4407 9.2 184648.4 -0332.1  
4408 9.7 184703.2 -0346.0  
4409 9.2 184704.3 -0348.4  
  
4410 9.5 184710.8 -0353.1  
4411 9.5 184728.1 -0350.6  
4412 9.4 184735.1 -0344.6  
4413 8.7 184754.5 -0300.4  
4414 9.8 184811.5 -0308.3  
4415 9.5 184817.1 -0251.8  
4416 9.3 184820.2 -0300.5  
4417 9.1 184830.0 -0320.9  
4418 9.3 184851.7 -0325.2  
4419 9.2 184901.5 -0318.4  
  
4420 9.5 184915.4 -0324.6  
4421 9.3 184918.1 -0344.2  
4422 9.3 184925.9 -0323.0  
4423 9.2 184936.7 -0334.8  
4424 9.7 184949.8 -0323.1  
4425 9.0 184950.5 -0313.3  
4426 9.3 185000.1 -0348.7  
4427 9.7 185008.1 -0354.1  
4428 9.8 185013.6 -0343.3  
4429 9.5 185021.9 -0316.7  
  
4430 9.4 185027.3 -0316.9  
4431 9.7 185043.1 -0319.9  
4432 9.4 185055.0 -0318.3  
4433 9.0 185102.5 -0307.5  
4434 9.5 185116.1 -0335.4  
4435 9.0 185119.2 -0358.1  
4436 9.8 185131.4 -0319.6  
4437 9.3 185146.5 -0313.2  
4438 9.5 185155.9 -0330.5  
4439 7.4 185202.2 -0301.6  
  
4440 9.5 185219.4 -0325.4  
4441 9.0 185224.4 -0529.8  
4442 9.5 185233.1 -0356.8  
4443 9.7 185241.1 -0345.5  
4444 9.5 185255.7 -0329.2  
4445 9.7 185303.5 -0319.0  
4446 9.0 185332.1 -0343.0  
4447 9.3 185341.1 -0332.9  
4448 9.5 185350.5 -0318.1  
4449 9.0 185355.1 -0341.2  
  
4450 8.5 185412.7 -0334.4  
4451 9.8 185429.7 -0302.7  
4452 9.5 185441.8 -0306.2  
4453 9.7 185446.7 -0325.5  
4454 8.8 185452.6 -0303.0  
4455 9.7 185503.6 -0335.5  
4456 9.7 185504.5 -0338.9  
4457 9.2 185506.9 -0333.3  
4458 9.1 185507.7 -0357.1  
4459 9.1 185514.5 -0315.1

4460 5.7 185516.1 -0354.5  
4461 9.4 185524.2 -0333.0  
4462 9.5 185524.9 -0329.9  
4463 9.2 185529.1 -0343.0  
4464 9.4 185529.9 -0351.9  
4465 9.0 185532.1 -0340.4  
4466 7.7 185543.4 -0300.0  
4467 9.8 185607.1 -0352.3  
4468 9.3 185610.1 -0331.0  
4469 9.5 185620.2 -0327.3  
  
4470 9.3 185650.5 -0321.6  
4471 9.8 185652.6 -0348.1  
4472 9.6 185700.6 -0343.2  
4473 9.5 185703.6 -0346.9  
4474 9.5 185757.3 -0348.7  
4475 9.0 185759.5 -0304.3  
4476 8.2 185807.9 -0351.2  
4477 9.7 185823.4 -0310.9  
4478 9.4 185829.8 -0326.6  
4479 9.6 185834.6 -0303.8  
  
4480 9.5 185843.5 -0317.5  
4481 9.5 185853.2 -0300.3  
4482 9.7 185907.3 -0345.0  
4483 9.7 185928.9 -0345.8  
4484 9.1 185933.0 -0308.4  
4485 8.2 190002.0 -0302.6  
4486 8.5 190016.2 -0316.9  
4487 9.8 190016.8 -0312.2  
4488 9.7 190031.2 -0324.9  
4489 8.5 190032.9 -0345.4  
  
4490 9.3 190055.0 -0311.5  
4491 9.8 190105.8 -0307.0  
4492 9.1 190116.3 -0322.6  
4493 9.8 190116.7 -0307.8  
4494 8.7 190121.1 -0334.0  
4495 9.8 190139.1 -0339.8  
4496 9.4 190150.9 -0345.2  
4497 9.6 190153.9 -0337.0  
4498 9.6 190157.2 -0308.3  
4499 8.0 190210.8 -0345.3  
  
4500 9.8 190220.2 -0314.7  
4501 9.6 190234.6 -0330.4  
4502 9.7 190236.4 -0326.1  
4503 9.5 190307.1 -0303.5  
4504 9.5 190323.7 -0305.0  
4505 8.0 190403.8 -0317.7  
4506 9.0 190410.2 -0359.9  
4507 9.8 190437.3 -0311.5  
4508 9.3 190444.5 -0355.9  
4509 9.5 190447.7 -0314.4  
  
4510 9.5 190514.2 -0306.8  
4511 9.1 190517.6 -0347.7  
4512 9.1 190520.2 -0326.5  
4513 9.5 190521.3 -0347.0  
4514 9.0 190523.1 -0339.4  
4515 9.5 190525.6 -0329.3  
4516 8.5 190536.4 -0341.2  
4517 9.4 190546.8 -0300.4  
4518 9.5 190550.6 -0349.1  
4519 9.8 190554.3 -0328.9  
  
4520 9.8 190623.3 -0322.8  
4521 9.5 190628.9 -0352.7  
4522 7.8 190639.8 -0344.4  
4523 9.4 190643.3 -0308.1  
4524 9.5 190651.7 -0319.3  
4525 9.8 190703.9 -0357.5  
4526 8.7 190712.5 -0338.1  
4527 9.8 190716.1 -0301.9  
4528 9.2 190719.4 -0332.7  
4529 9.4 190722.8 -0350.7  
  
4530 8.5 190729.1 -0334.4  
4531 9.4 190737.2 -0315.7  
4532 8.5 190734.9 -0335.8  
4533 9.4 190733.6 -0328.0  
4534 9.3 190744.5 -0353.8  
4535 7.8 190750.3 -0321.6  
4536 8.6 190801.7 -0317.3  
4537 9.1 190804.4 -0336.4  
4538 9.0 190806.5 -0307.7  
4539 9.4 190814.9 -0329.4  
  
4540 9.4 190823.0 -0353.8  
4541 9.0 190835.2 -0332.7  
4542 9.8 190842.1 -0323.0  
4543 9.5 190846.6 -0333.5  
4544 9.4 190849.6 -0325.9  
4545 9.5 190853.4 -0344.8  
4546 9.1 190925.7 -0315.0  
4547 10.1 190929.9 -0352.8  
4548 8.7 190933.8 -0338.0  
4549 9.2 190950.6 -0333.9

4550 9.4 191018.0 -0340.8  
4551 9.5 191018.3 -0312.0  
4552 9.5 191020.7 -0309.4  
4553 9.0 191022.5 -0343.9  
4554 9.9 191026.5 -0340.1  
4555 9.5 191106.8 -0321.5  
4556 9.2 191107.8 -0323.6  
4557 9.5 191109.7 -0316.8  
4558 9.5 191115.4 -0343.0  
4559 8.8 191206.4 -0336.3  
  
4560 9.8 191209.3 -0305.0  
4561 9.5 191221.4 -0349.5  
4562 9.5 191226.0 -0318.1  
4563 9.2 191231.1 -0301.0  
4564 9.4 191234.4 -0318.4  
4565 9.2 191235.1 -0301.9  
4566 9.8 191259.7 -0336.4  
4567 9.4 191302.9 -0343.3  
4568 9.8 191330.1 -0349.2  
4569 9.3 191403.9 -0340.6  
  
4570 9.8 191418.4 -0324.9  
4571 9.5 191446.0 -0322.1  
4572 8.7 191447.7 -0354.1  
4573 7.0 191455.9 -0359.1  
4574 9.7 191503.3 -0306.9  
4575 10.1 191503.3 -0336.9  
4576 9.8 191506.4 -0337.0  
4577 8.8 191514.4 -0309.1  
4578 10.1 191537.9 -0347.8  
4579 9.5 191552.5 -0319.4  
  
4580 9.6 191614.6 -0355.0  
4581 9.8 191630.4 -0320.0  
4582 10.1 191638.5 -0330.9  
4583 9.7 191641.3 -0322.0  
4584 9.3 191644.7 -0348.5  
4585 9.2 191645.1 -0307.1  
4586 9.5 191738.7 -0325.7  
4587 8.9 191742.8 -0343.2  
4588 9.1 191744.8 -0323.8  
4589 9.5 191812.0 -0315.7  
  
4590 9.1 191814.5 -0336.6  
4591 9.5 191837.8 -0343.2  
4592 9.4 191841.9 -0353.3  
4593 9.5 191857.9 -0343.8  
4594 9.2 191911.7 -0302.5  
4595 9.8 191914.8 -0336.6  
4596 9.2 191921.3 -0322.0  
4597 9.5 191947.7 -0312.5  
4598 8.3 192033.9 -0320.3  
4599 9.5 192103.6 -0354.8  
  
4600 9.8 192130.6 -0320.9  
4601 9.6 192137.9 -0356.7  
4602 9.5 192148.8 -0333.7  
4603 8.8 192149.0 -0306.0  
4604 9.3 192203.2 -0300.9  
4605 9.2 192205.4 -0342.4  
4606 8.8 192206.2 -0300.8  
4607 9.5 192230.8 -0310.0  
4608 9.0 192232.3 -0316.4  
4609 9.5 192237.5 -0303.0  
  
4610 9.1 192241.4 -0345.1  
4611 8.2 192241.5 -0328.4  
4612 5.7 192305.5 -0304.8  
4613 9.6 192320.4 -0349.1  
4614 9.5 192324.9 -0349.4  
4615 9.9 192331.6 -0350.1  
4616 9.5 192334.5 -0302.0  
4617 9.2 192348.6 -0336.4  
4618 9.0 192406.0 -0306.4  
4619 9.8 192415.9 -0313.5  
  
4620 9.2 192428.9 -0346.7  
4621 9.6 192434.8 -0325.3  
4622 9.6 192445.5 -0328.7  
4623 9.3 192454.2 -0335.0  
4624 10.1 192536.7 -0330.5  
4625 9.4 192544.1 -0341.2  
4626 9.8 192551.4 -0300.2  
4627 8.5 192559.7 -0355.7  
4628 9.1 192605.5 -0313.9  
4629 9.5 192630.5 -0330.0  
  
4630 8.5 192636.3 -0335.9  
4631 9.5 192638.9 -0352.8  
4632 9.5 192640.4 -0353.7  
4633 9.2 192650.8 -0328.4  
4634 9.8 192717.6 -0301.8  
4635 9.2 192722.5 -0301.8  
4636 9.7 192725.9 -0302.7  
4637 9.5 192736.8 -0329.7  
4638 9.5 192738.2 -0314.8  
4639 9.4 192756.7 -0357.1

4640 9.0 192808.9 -0351.5  
4641 9.0 192809.7 -0355.0  
4642 8.5 192816.6 -0322.0  
4643 9.5 192821.4 -0301.0  
4644 9.4 192832.9 -0349.4  
4645 8.2 192837.6 -0307.3  
4646 9.5 192847.5 -0354.8  
4647 9.6 192859.3 -0328.0  
4648 9.3 192914.5 -0310.4  
4649 8.0 192934.9 -0347.5  
  
4650 9.0 192941.8 -0337.2  
4651 9.0 192942.6 -0335.5  
4652 9.4 192945.0 -0316.8  
4653 9.5 192955.5 -0306.9  
4654 9.4 192958.2 -0336.8  
4655 9.5 192958.7 -0354.6  
4656 8.5 193002.7 -0300.8  
4657 9.5 193028.5 -0308.0  
4658 9.0 193037.2 -0331.8  
4659 9.5 193045.4 -0351.8  
  
4660 9.8 193048.0 -0354.7  
4661 9.8 193055.1 -0310.6  
4662 9.3 193056.1 -0334.4  
4663 9.1 193058.4 -0335.7  
4664 9.5 193109.2 -0351.1  
4665 9.7 193112.0 -0352.7  
4666 9.8 193112.9 -0357.6  
4667 9.3 193116.2 -0327.6  
4668 9.8 193116.4 -0352.6  
4669 9.5 193121.0 -0346.4  
  
4670 8.5 193136.8 -0330.1  
4671 9.5 193145.7 -0325.0  
4672 9.4 193158.6 -0311.1  
4673 9.3 193202.7 -0324.9  
4674 8.7 193222.2 -0325.7  
4675 9.5 193233.9 -0351.2  
4676 9.6 193243.8 -0302.2  
4677 9.5 193249.5 -0341.1  
4678 9.7 193307.5 -0300.4  
4679 9.5 193313.0 -0341.8  
  
4680 8.5 193325.1 -0312.5  
4681 9.3 193332.2 -0324.6  
4682 9.1 193348.4 -0355.9  
4683 9.4 193418.9 -0331.8  
4684 9.3 193427.3 -0324.5  
4685 9.2 193433.3 -0324.5  
4686 9.5 193451.1 -0344.2  
4687 9.8 193516.3 -0320.1  
4688 9.8 193547.2 -0343.0  
4689 9.4 193549.2 -0340.0  
  
4690 9.4 193603.7 -0329.6  
4691 9.8 193618.7 -0339.7  
4692 9.6 193622.3 -0337.2  
4693 9.5 193641.3 -0333.8  
4694 9.4 193702.2 -0343.3  
4695 8.3 193712.4 -0326.9  
4696 7.7 193734.1 -0322.0  
4697 9.5 193742.0 -0308.8  
4698 8.8 193751.2 -0329.9  
4699 9.1 193806.6 -0333.1  
  
4700 9.5 193813.3 -0357.4  
4701 6.7 193817.5 -0313.3  
4702 9.0 193830.9 -0338.6  
4703 9.5 193907.9 -0355.6  
4704 9.1 193925.9 -0329.5  
4705 9.5 193929.4 -0308.2  
4706 8.5 193950.0 -0348.3  
4707 10.1 193954.0 -0354.7  
4708 9.1 194016.7 -0358.5  
4709 9.5 194031.1 -0307.6  
  
4710 9.5 194037.5 -0300.7  
4711 9.1 194038.4 -0339.2  
4712 9.5 194047.7 -0357.7  
4713 10.1 194049.8 -0305.8  
4714 9.6 194104.4 -0350.8  
4715 9.3 194119.5 -0341.6  
4716 9.5 194120.1 -0315.1  
4717 9.8 194121.7 -0338.0  
4718 9.3 194124.0 -0341.1  
4719 9.8 194200.6 -0315.9  
  
4720 9.0 194205.7 -0356.7  
4721 10.1 194206.5 -0333.4  
4722 9.5 194212.9 -0321.4  
4723 9.5 194236.5 -0348.6  
4724 9.8 194240.7 -0336.8  
4725 9.6 194246.0 -0318.3  
4726 9.5 194257.7 -0329.6  
4727 9.4 194302.1 -0309.2  
4728 8.7 194316.4 -0301.0  
4729 9.5 194317.5 -0357.9

-03 4729 19h43m



-03 4730 19h43m

4730 8.3 194325.1 -0313.2  
4731 9.4 194404.0 -0306.0  
4732 9.4 194420.2 -0327.5  
4733 9.9 194437.1 -0312.6  
4734 9.2 194439.8 -0300.3  
4735 9.5 194445.0 -0300.3  
4736 9.3 194455.5 -0331.3  
4737 9.8 194458.6 -0327.7  
4738 9.5 194507.6 -0310.5  
4739 9.5 194512.2 -0339.7

4740 9.8 194519.1 -0328.6  
4741 9.2 194536.3 -0327.3  
4742 6.2 194543.0 -0329.2  
4743 9.5 194548.7 -0314.9  
4744 8.7 194556.8 -0304.8  
4745 9.5 194659.1 -0306.7  
4746 9.5 194708.1 -0334.5  
4747 9.6 194726.6 -0330.8  
4748 9.5 194743.5 -0306.5  
4749 9.2 194757.6 -0306.5

4750 9.2 194818.2 -0320.4  
4751 8.3 194908.0 -0322.6  
4752 9.4 194914.0 -0324.7  
4753 9.1 194933.2 -0343.0  
4754 9.4 194944.1 -0306.8  
4755 9.5 195034.5 -0337.8  
4756 9.5 195042.6 -0351.9  
4757 6.8 195055.5 -0356.4  
4758 9.3 195107.9 -0303.6  
4759 9.0 195111.2 -0337.9

4760 10. 195113.4 -0316.1  
4761 10. 195118.2 -0324.9  
4762 9.2 195120.3 -0327.9  
4763 9.5 195219.1 -0325.0  
4764 9.6 195245.2 -0339.7  
4765 9.6 195318.2 -0353.3  
4766 9.3 195320.6 -0307.2  
4767 9.7 195352.2 -0349.8  
4768 9.5 195405.6 -0334.8  
4769 9.3 195412.7 -0354.9

4770 9.2 195500.8 -0347.8  
4771 7.3 195501.8 -0344.0  
4772 9.3 195526.9 -0355.8  
4773 8.8 195603.3 -0346.7  
4774 9.1 195605.3 -0350.5  
4775 9.3 195636.2 -0339.8  
4776 9.1 195645.7 -0312.7  
4777 9.2 195715.5 -0334.1  
4778 9.1 195715.7 -0303.6  
4779 9.5 195759.3 -0332.5

4780 9.1 195805.6 -0308.5  
4781 9.0 195813.3 -0346.6  
4782 9.6 195828.4 -0328.9  
4783 9.1 195829.2 -0352.4  
4784 9.3 195831.7 -0311.6  
4785 9.7 195920.0 -0338.0  
4786 9.0 195928.9 -0315.7  
4787 9.1 195952.1 -0341.3  
4788 8.3 200042.6 -0348.6  
4789 9.8 200043.7 -0316.8

4790 9.0 200050.3 -0322.2  
4791 9.5 200108.6 -0329.3  
4792 8.8 200145.8 -0341.5  
4793 7.9 200145.8 -0332.3  
4794 8.4 200148.7 -0322.3  
4795 9.5 200154.1 -0306.0  
4796 9.7 200204.6 -0316.6  
4797 9.2 200208.1 -0337.8  
4798 9.5 200210.5 -0313.4  
4799 9.5 200211.0 -0314.9

4800 9.7 200233.9 -0323.1  
4801 9.6 200241.5 -0340.4  
4802 8.8 200257.2 -0333.5  
4803 8.7 200312.1 -0307.1  
4804 8.3 200316.8 -0356.4  
4805 9.6 200321.8 -0308.9  
4806 9.2 200334.9 -0335.4  
4807 9.5 200357.2 -0332.6  
4808 9.5 200358.9 -0301.3  
4809 9.5 200405.4 -0354.8

4810 10. 200406.3 -0301.9  
4811 9.7 200422.2 -0311.5  
4812 9.7 200435.5 -0315.2  
4813 9.9 200448.8 -0349.9  
4814 10. 200449.1 -0322.6  
4815 9.6 200453.1 -0334.7  
4816 9.5 200501.7 -0303.0  
4817 6.5 200512.4 -0325.3  
4818 9.2 200537.3 -0341.6  
4819 10. 200612.2 -0340.0

4820 9.0 200621.4 -0355.5  
4821 9.5 200707.7 -0307.9  
4822 9.6 200711.8 -0328.9  
4823 9.6 200712.5 -0335.7  
4824 8.8 200734.4 -0356.4  
4825 7.0 200735.1 -0356.2  
4826 10. 200736.9 -0309.3  
4827 9.8 200737.6 -0316.9  
4828 8.5 200749.0 -0310.1  
4829 9.6 200752.6 -0316.5

4830 9.0 200800.8 -0325.4  
4831 9.5 200802.5 -0357.5  
4832 9.6 200807.3 -0311.7  
4833 9.3 200812.8 -0325.0  
4834 9.0 200825.7 -0308.6  
4835 9.5 200840.4 -0353.0  
4836 9.5 200857.9 -0315.5  
4837 9.5 200861.0 -0312.6  
4838 7.2 200914.4 -0355.6  
4839 9.5 200932.0 -0301.8

4840 8.8 200940.3 -0336.4  
4841 8.5 201042.2 -0316.4  
4842 9.1 201049.1 -0312.0  
4843 9.5 201057.8 -0315.5  
4844 9.3 201104.2 -0310.3  
4845 9.6 201124.7 -0315.8  
4846 9.7 201126.3 -0324.7  
4847 9.4 201141.4 -0359.4  
4848 8.3 201151.2 -0334.8  
4849 9.0 201202.4 -0353.0

4850 9.2 201218.8 -0329.2  
4851 9.3 201229.3 -0336.3  
4852 9.5 201308.5 -0335.2  
4853 9.5 201304.1 -0337.7  
4854 9.5 201314.0 -0357.5  
4855 9.5 201324.3 -0336.5  
4856 9.0 201327.7 -0317.0  
4857 9.2 201330.0 -0359.2  
4858 9.5 201334.9 -0353.0  
4859 9.3 201348.7 -0347.3

4860 8.9 201253.4 -0351.4  
4861 9.4 201358.3 -0316.0  
4862 9.5 201405.6 -0318.5  
4863 9.5 201408.8 -0357.0  
4864 9.5 201420.4 -0339.9  
4865 9.1 201438.8 -0331.4  
4866 9.0 201440.4 -0348.8  
4867 9.2 201456.2 -0305.9  
4868 9.5 201506.9 -0345.8  
4869 9.0 201507.8 -0326.1

4870 9.2 201517.7 -0308.0  
4871 9.2 201519.4 -0341.6  
4872 9.5 201524.3 -0340.8  
4873 8.8 201525.8 -0313.6  
4874 9.6 201528.6 -0301.6  
4875 9.2 201545.5 -0357.5  
4876 9.2 201601.9 -0343.4  
4877 9.5 201602.1 -0326.7  
4878 9.5 201622.0 -0354.0  
4879 9.0 201632.8 -0342.2

4880 9.9 201643.7 -0326.1  
4881 9.2 201715.9 -0321.6  
4882 8.5 201735.4 -0353.4  
4883 9.5 201738.5 -0359.6  
4884 9.5 201740.2 -0304.8  
4885 8.9 201757.7 -0303.9  
4886 9.8 201758.9 -0308.9  
4887 9.4 201800.8 -0344.4  
4888 6.3 201807.7 -0215.5  
4889 9.5 201820.4 -0347.3

4890 8.5 201826.9 -0354.8  
4891 9.3 201835.2 -0326.2  
4892 9.0 201840.0 -0358.2  
4893 9.5 201844.5 -0356.2  
4894 9.2 201848.2 -0309.0  
4895 9.4 201850.3 -0327.7  
4896 9.3 201915.4 -0344.4  
4897 9.5 201914.2 -0255.8  
4898 9.3 201919.9 -0321.6  
4899 9.3 201923.9 -0343.1

4900 8.7 201930.7 -0225.8  
4901 8.4 201954.1 -0351.6  
4902 9.8 201959.6 -0336.6  
4903 9.4 202021.0 -0346.2  
4904 9.2 202030.2 -0303.9  
4905 9.0 202042.2 -0350.5  
4906 6.4 202049.0 -0349.7  
4907 9.2 202050.1 -0352.0  
4908 9.7 202056.0 -0319.2  
4909 9.8 202056.1 -0322.6

4910 9.4 202107.1 -0324.5  
4911 9.6 202112.7 -0304.1  
4912 9.2 202118.5 -0353.2  
4913 9.5 202119.9 -0301.1  
4914 9.7 202137.5 -0333.8  
4915 9.8 202150.6 -0305.1  
4916 9.8 202157.5 -0309.6  
4917 9.4 202201.0 -0319.8  
4918 5.5 202203.9 -0321.9  
4919 9.8 202208.8 -0347.7

4920 9.5 202210.9 -0341.6  
4921 9.5 202211.3 -0350.5  
4922 9.5 202219.5 -0357.7  
4923 8.5 202223.4 -0339.6  
4924 9.1 202227.2 -0303.3  
4925 9.0 202244.5 -0357.2  
4926 9.3 202247.8 -0357.2  
4927 9.9 202324.3 -0330.2  
4928 8.5 202332.8 -0304.3  
4929 9.3 202337.0 -0357.1

4930 8.2 202419.0 -0355.8  
4931 9.5 202427.5 -0358.0  
4932 9.6 202433.5 -0378.0  
4933 8.7 202435.2 -0304.1  
4934 9.3 202444.9 -0322.4  
4935 9.5 202508.4 -0320.2  
4936 9.9 202516.4 -0351.5  
4937 9.1 202516.7 -0309.2  
4938 9.3 202529.0 -0342.5  
4939 9.1 202549.3 -0313.7

4940 8.3 202550.5 -0350.8  
4941 9.3 202551.0 -0348.5  
4942 10. 202552.4 -0354.6  
4943 9.8 202616.4 -0323.7  
4944 9.3 202623.0 -0358.0  
4945 8.8 202639.0 -0352.8  
4946 8.7 202640.9 -0333.6  
4947 9.8 202653.0 -0353.3  
4948 9.0 202657.7 -0354.3  
4949 8.7 202705.2 -0359.9

4950 9.1 202711.8 -0311.2  
4951 9.5 202714.3 -0301.3  
4952 9.8 202732.4 -0341.9  
4953 8.9 202752.9 -0342.0  
4954 9.7 202801.9 -0346.0  
4955 8.4 202806.2 -0348.7  
4956 9.5 202820.0 -0353.0  
4957 9.2 202830.8 -0340.8  
4958 9.2 202849.6 -0328.4  
4959 9.4 202855.9 -0344.3

4960 9.6 202856.7 -0335.4  
4961 5.4 202910.6 -0302.4  
4962 9.5 202915.6 -0334.1  
4963 9.8 202925.4 -0335.8  
4964 9.8 202948.0 -0337.7  
4965 9.5 203000.8 -0324.9  
4966 9.6 203022.4 -0317.0  
4967 9.5 203027.3 -0307.6  
4968 9.4 203030.1 -0353.0  
4969 8.5 203035.9 -0316.6

4970 9.8 203045.0 -0307.4  
4971 8.3 203046.5 -0342.3  
4972 9.8 203048.9 -0335.4  
4973 9.0 203049.8 -0330.7  
4974 10. 203121.5 -0347.5  
4975 9.5 203132.6 -0326.2  
4976 9.3 203201.3 -0309.5  
4977 9.6 203201.9 -0330.8  
4978 9.4 203208.7 -0326.9  
4979 9.5 203215.3 -0328.4

4980 9.4 203222.2 -0321.1  
4981 7.0 203239.4 -0309.5  
4982 9.5 203246.4 -0359.6  
4983 9.5 203319.1 -0353.9  
4984 9.0 203338.2 -0211.5  
4985 9.5 203409.5 -0341.1  
4986 9.5 203413.7 -0335.4  
4987 8.0 203413.9 -0354.7  
4988 9.4 203436.6 -0352.4  
4989 9.4 203451.9 -0353.8

4990 9.4 203458.1 -0304.1  
4991 9.7 203506.7 -0304.8  
4992 9.5 203512.4 -0315.2  
4993 9.6 203529.6 -0352.2  
4994 10. 203533.5 -0326.8  
4995 9.0 203549.1 -0300.2  
4996 9.1 203549.9 -0312.9  
4997 9.5 203558.1 -0357.4  
4998 9.4 203614.0 -0344.9  
4999 9.8 203633.0 -0324.1

-03 5089 20h53m

5000 9.6 203633.7 -0317.2  
5001 9.3 203727.5 -0338.6  
5002 9.5 203729.4 -0308.4  
5003 9.6 203732.0 -0320.9  
5004 9.6 203736.3 -0354.0  
5005 9.7 203759.5 -0340.1  
5006 9.5 203802.0 -0333.0  
5007 8.8 203811.1 -0353.5  
5008 9.3 203818.7 -0335.7  
5009 8.9 203819.2 -0341.2

5010 9.5 203838.9 -0338.2  
5011 9.5 203852.8 -0309.9  
5012 9.8 203905.6 -0353.2  
5013 9.0 203911.3 -0310.7  
5014 9.1 203912.4 -0352.6  
5015 9.4 203913.4 -0325.7  
5016 9.5 203915.9 -0305.4  
5017 8.0 203916.7 -0314.3  
5018 6.8 203930.8 -0300.6  
5019 10. 203957.1 -0355.1

5020 9.8 204017.2 -0334.6  
5021 9.4 204027.7 -0342.6  
5022 8.7 204032.6 -0333.8  
5023 9.0 204037.8 -0309.7  
5024 9.7 204042.8 -0347.9  
5025 9.4 204043.1 -0352.9  
5026 9.7 204058.4 -0356.1  
5027 9.6 204111.7 -0342.7  
5028 9.3 204135.5 -0334.0  
5029 9.9 204135.5 -0326.6

5030 9.4 204148.3 -0304.6  
5031 9.6 204149.8 -0332.6  
5032 9.7 204151.7 -0328.1  
5033 9.5 204153.8 -0306.3  
5034 9.3 204207.1 -0348.2  
5035 9.3 204208.6 -0313.8  
5036 9.6 204229.7 -0336.6  
5037 9.5 204231.4 -0330.1  
5038 9.0 204234.0 -0210.9  
5039 10. 204239.9 -0339.7

5040 9.7 204245.7 -0347.1  
5041 9.2 204252.2 -0325.7  
5042 9.1 204209.4 -0342.5  
5043 9.0 204315.7 -0353.5  
5044 9.1 204316.1 -0317.7  
5045 9.4 204323.2 -0303.4  
5046 9.4 204333.7 -0352.2  
5047 9.2 204410.8 -0319.6  
5048 8.0 204446.9 -0345.5  
5049 9.8 204454.7 -0331.4

5050 9.8 204459.8 -0350.5  
5051 9.8 204510.4 -0301.0  
5052 9.8 204518.4 -0345.1  
5053 9.8 204537.8 -0312.8  
5054 10. 204551.3 -0321.9  
5055 8.8 204555.2 -0343.0  
5056 9.5 204605.9 -0324.9  
5057 8.8 204615.0 -0304.2  
5058 9.5 204619.7 -0356.1  
5059 9.8 204635.8 -0317.5

5060 9.4 204636.4 -0345.2  
5061 9.5 204636.5 -0349.7  
5062 9.2 204646.8 -0312.4  
5063 9.5 204655.2 -0334.2  
5064 9.5 204702.9 -0327.4  
5065 9.3 204733.8 -0312.5  
5066 9.2 204739.5 -0333.5  
5067 10. 204804.4 -0359.5  
5068 9.7 204805.8 -0354.3  
5069 9.6 204811.2 -0319.7

5070 9.7 204821.9 -0319.6  
5071 9.4 204824.7 -0344.0  
5072 9.1 204846.8 -0329.4  
5073 9.6 204913.2 -0344.3  
5074 9.5 204923.0 -0314.8  
5075 9.3 204945.4 -0308.5  
5076 8.5 204955.2 -0347.5  
5077 9.4 205011.1 -0355.8  
5078 9.4 205018.7 -0358.6  
5079 8.8 205027.4 -0301.1

5080 9.0 205036.4 -0340.8  
5081 9.5 205047.8 -0317.1  
5082 9.8 205102.3 -0322.8  
5083 9.8 205107.9 -0307.0  
5084 7.8 205115.2 -0352.6  
5085 9.2 205136.9 -0318.9  
5086 10. 205156.8 -0344.5  
5087 8.9 205245.9 -0322.3  
5088 9.8 205247.1 -0311.1  
5089 9.5 205323.8 -0330.8



5090 9.0 205335.5 -0335.9  
 5091 9.5 205337.3 -0306.1  
 5092 8.0 205349.8 -0304.9  
 5093 9.5 205415.3 -0352.3  
 5094 9.5 205422.4 -0317.8  
 5095 9.1 205433.7 -0305.7  
 5096 9.6 205448.8 -0355.8  
 5097 9.2 205455.4 -0303.9  
 5098 9.3 205506.9 -0336.5  
 5099 9.4 205533.2 -0351.2

5100 9.5 205537.9 -0323.7  
 5101 8.0 205551.8 -0308.6  
 5102 9.3 205604.2 -0331.8  
 5103 9.9 205615.2 -0332.1  
 5104 9.5 205621.4 -0351.9  
 5105 9.5 205640.3 -0356.9  
 5106 9.8 205641.2 -0328.5  
 5107 9.7 205646.4 -0304.9  
 5108 9.1 205701.0 -0301.7  
 5109 9.1 205701.8 -0339.8

5110 9.2 205708.0 -0308.0  
 5111 9.5 205711.9 -0334.9  
 5112 9.4 205713.8 -0340.7  
 5113 9.5 205727.7 -0305.6  
 5114 9.8 205736.0 -0300.4  
 5115 10. 205758.4 -0331.3  
 5116 9.1 205804.0 -0302.0  
 5117 9.9 205823.4 -0331.6  
 5118 9.5 205829.8 -0346.5  
 5119 9.8 205858.8 -0355.5

5120 9.7 205916.8 -0314.6  
 5121 9.0 205919.6 -0320.6  
 5122 10. 205936.2 -0310.2  
 5123 8.6 210107.1 -0319.2  
 5124 9.5 210110.5 -0339.9  
 5125 9.6 210121.6 -0322.2  
 5126 9.6 210122.4 -0311.6  
 5127 9.1 210123.9 -0329.7  
 5128 9.4 210132.9 -0345.6  
 5129 9.8 210157.1 -0333.5

5130 9.8 210212.1 -0307.0  
 5131 9.8 210215.7 -0307.9  
 5132 9.8 210223.2 -0336.4  
 5133 9.6 210225.1 -0338.3  
 5134 10. 210226.6 -0339.5  
 5135 9.3 210233.0 -0322.6  
 5136 8.8 210241.8 -0352.7  
 5137 9.8 210330.9 -0309.1  
 5138 8.5 210353.8 -0359.6  
 5139 9.4 210400.2 -0330.2

5140 7.4 210402.2 -0342.1  
 5141 8.5 210415.9 -0311.3  
 5142 9.5 210420.0 -0318.2  
 5143 9.2 210422.2 -0328.0  
 5144 9.6 210423.6 -0342.6  
 5145 9.5 210440.9 -0313.2  
 5146 9.6 210446.0 -0342.2  
 5147 10. 210457.4 -0302.8  
 5148 10. 210500.4 -0359.7  
 5149 9.7 210508.7 -0318.0

5150 10. 210528.3 -0351.7  
 5151 9.9 210536.6 -0330.2  
 5152 10. 210557.9 -0314.0  
 5153 9.6 210608.8 -0348.8  
 5154 9.6 210611.8 -0356.8  
 5155 8.3 210631.7 -0320.9  
 5156 9.1 210653.8 -0357.6  
 5157 9.8 210659.7 -0312.1  
 5158 9.5 210720.7 -0338.6  
 5159 9.3 210728.1 -0329.6

5160 7.0 210731.4 -0310.1  
 5161 9.7 210755.8 -0348.6  
 5162 8.7 210804.9 -0308.2  
 5163 9.5 210830.3 -0350.4  
 5164 9.6 210852.0 -0315.5  
 5165 9.6 210940.6 -0325.4  
 5166 9.5 210947.9 -0321.1  
 5167 9.7 210959.1 -0342.3  
 5168 9.5 211024.3 -0337.7  
 5169 9.4 211035.6 -0349.8

5170 9.5 211051.8 -0338.1  
 5171 9.4 211101.5 -0321.3  
 5172 8.5 211103.8 -0344.4  
 5173 9.6 211123.5 -0318.1  
 5174 9.6 211145.5 -0331.6  
 5175 9.8 211151.6 -0341.5  
 5176 8.2 211208.8 -0329.1  
 5177 9.4 211235.9 -0334.9  
 5178 9.2 211302.3 -0335.1  
 5179 9.8 211303.7 -0307.5

5180 9.8 211330.8 -0336.0  
 5181 9.3 211332.8 -0340.7  
 5182 9.2 211337.8 -0339.0  
 5183 9.3 211351.3 -0346.5  
 5184 8.6 211412.9 -0348.9  
 5185 9.3 211417.0 -0319.8  
 5186 9.6 211448.5 -0331.2  
 5187 9.1 211452.4 -0340.4  
 5188 7.0 211455.3 -0344.4  
 5189 9.5 211455.5 -0311.6

5190 9.4 211511.6 -0332.7  
 5191 9.0 211515.4 -0312.0  
 5192 9.1 211519.0 -0309.0  
 5193 9.8 211549.8 -0333.1  
 5194 9.8 211558.0 -0323.4  
 5195 9.6 211608.5 -0314.8  
 5196 9.4 211624.5 -0359.2  
 5197 9.5 211702.4 -0331.2  
 5198 9.8 211710.2 -0324.6  
 5199 9.7 211721.9 -0349.2

5200 9.8 211723.0 -0353.9  
 5201 9.8 211735.7 -0331.0  
 5202 9.5 211751.4 -0346.6  
 5203 9.5 211839.5 -0329.3  
 5204 9.6 211847.0 -0353.1  
 5205 9.4 211853.8 -0325.8  
 5206 8.3 211857.3 -0336.6  
 5207 9.1 211858.5 -0356.1  
 5208 8.8 211917.9 -0321.5  
 5209 9.3 211920.5 -0326.2

5210 9.4 211928.3 -0338.2  
 5211 8.1 211952.1 -0323.4  
 5212 9.7 211954.8 -0312.4  
 5213 8.7 212020.9 -0346.5  
 5214 8.5 212022.8 -0303.5  
 5215 9.5 212027.5 -0345.0  
 5216 7.8 212047.4 -0314.1  
 5217 7.3 212048.4 -0330.4  
 5218 9.5 212108.0 -0355.6  
 5219 9.4 212137.5 -0322.9

5220 9.5 212140.9 -0353.9  
 5221 9.5 212146.8 -0335.7  
 5222 9.0 212149.4 -0350.7  
 5223 9.5 212156.0 -0320.9  
 5224 9.8 212225.5 -0306.3  
 5225 9.5 212239.9 -0340.7  
 5226 9.0 212240.4 -0325.8  
 5227 9.5 212241.2 -0342.2  
 5228 9.3 212257.9 -0336.6  
 5229 9.9 212211.7 -0358.0

5230 9.4 212316.6 -0310.6  
 5231 9.0 212336.9 -0339.7  
 5232 9.2 212400.9 -0342.8  
 5233 10. 212440.4 -0339.3  
 5234 9.2 212443.5 -0323.1  
 5235 9.1 212445.0 -0353.4  
 5236 9.1 212448.4 -0332.3  
 5237 8.8 212459.2 -0341.5  
 5238 9.5 212528.4 -0305.7  
 5239 8.8 212533.5 -0349.9

5240 9.5 212536.4 -0338.9  
 5241 9.5 212554.5 -0319.4  
 5242 9.8 212558.4 -0308.7  
 5243 9.8 212612.0 -0358.1  
 5244 8.7 212613.9 -0300.4  
 5245 9.8 212633.5 -0349.0  
 5246 10. 212635.1 -0323.7  
 5247 9.9 212649.4 -0306.4  
 5248 9.4 212721.0 -0309.3  
 5249 9.6 212723.0 -0355.6

5250 9.4 212729.5 -0319.8  
 5251 9.5 212744.7 -0328.0  
 5252 9.5 212829.5 -0324.9  
 5253 9.5 212847.5 -0325.3  
 5254 9.5 212858.1 -0330.0  
 5255 9.5 212900.5 -0342.9  
 5256 8.9 212909.9 -0315.2  
 5257 9.1 212917.6 -0359.9  
 5258 9.4 212952.4 -0339.5  
 5259 9.6 213008.9 -0352.2

5260 9.8 213018.7 -0328.0  
 5261 9.3 213035.1 -0326.1  
 5262 9.3 213037.4 -0300.8  
 5263 9.2 213044.7 -0334.6  
 5264 9.5 213046.0 -0301.7  
 5265 9.5 213047.6 -0315.5  
 5266 9.5 213049.1 -0356.2  
 5267 9.3 213057.1 -0308.1  
 5268 9.0 213124.6 -0309.6  
 5269 9.6 213143.1 -0316.8

5270 9.4 213217.0 -0329.0  
 5271 9.5 213249.0 -0300.3  
 5272 7.8 213300.1 -0309.9  
 5273 9.6 213317.0 -0303.4  
 5274 10. 213345.0 -0309.6  
 5275 9.9 213353.0 -0306.2  
 5276 9.8 213354.4 -0327.1  
 5277 9.9 213440.1 -0322.4  
 5278 9.7 213440.8 -0329.5  
 5279 9.2 213456.5 -0305.2

5280 9.6 213501.1 -0357.4  
 5281 8.8 213515.0 -0337.3  
 5282 9.5 213518.6 -0347.4  
 5283 8.5 213522.7 -0304.7  
 5284 9.3 213525.4 -0311.3  
 5285 8.9 213526.8 -0329.9  
 5286 9.5 213528.1 -0345.5  
 5287 9.4 213540.5 -0342.0  
 5288 9.5 213600.0 -0344.2  
 5289 9.8 213606.1 -0354.2

5290 9.7 213619.3 -0324.8  
 5291 9.4 213638.6 -0353.3  
 5292 9.5 213638.3 -0350.7  
 5293 9.5 213638.3 -0325.0  
 5294 8.5 213714.4 -0358.9  
 5295 9.8 213727.8 -0310.9  
 5296 8.0 213755.9 -0337.1  
 5297 9.8 213804.7 -0312.5  
 5298 8.9 213850.6 -0305.2  
 5299 9.4 213920.0 -0305.5

5300 9.2 213935.3 -0326.1  
 5301 9.8 214003.2 -0315.1  
 5302 9.4 214014.1 -0349.3  
 5303 9.6 214053.0 -0345.2  
 5304 9.6 214053.8 -0320.1  
 5305 9.5 214109.5 -0337.1  
 5306 10. 214125.0 -0350.9  
 5307 9.8 214246.6 -0330.2  
 5308 9.1 214308.3 -0352.4  
 5309 10. 214320.0 -0305.2

5310 9.5 214351.7 -0344.7  
 5311 9.7 214355.8 -0324.3  
 5312 9.5 214356.1 -0303.9  
 5313 9.5 214412.5 -0325.9  
 5314 9.5 214424.8 -0303.7  
 5315 9.9 214440.5 -0308.4  
 5316 7.0 214448.7 -0350.6  
 5317 9.0 214454.9 -0308.5  
 5318 10. 214508.4 -0314.6  
 5319 9.5 214512.2 -0340.1

5320 9.9 214515.4 -0307.9  
 5321 9.6 214516.9 -0310.1  
 5322 9.9 214554.4 -0309.8  
 5323 9.8 214616.3 -0346.0  
 5324 9.1 214617.0 -0351.4  
 5325 9.4 214617.8 -0348.8  
 5326 9.4 214636.2 -0328.8  
 5327 9.4 214647.2 -0312.6  
 5328 9.4 214656.5 -0324.7  
 5329 6.5 214702.9 -0359.0

5330 10. 214703.6 -0359.4  
 5331 7.9 214703.7 -0340.3  
 5332 9.6 214744.8 -0305.5  
 5333 9.0 214748.3 -0344.1  
 5334 9.5 214759.0 -0324.5  
 5335 8.7 214801.5 -0343.2  
 5336 9.5 214801.7 -0358.6  
 5337 8.8 214811.6 -0327.6  
 5338 8.2 214811.9 -0319.2  
 5339 9.2 214903.7 -0341.9

5340 9.6 214919.3 -0326.8  
 5341 9.3 214929.5 -0318.4  
 5342 9.5 214948.5 -0324.7  
 5343 9.5 215005.9 -0331.6  
 5344 9.7 215011.1 -0310.6  
 5345 9.7 215011.5 -0314.1  
 5346 9.3 215015.7 -0309.0  
 5347 9.6 215031.8 -0317.2  
 5348 9.4 215031.8 -0351.1  
 5349 9.9 215038.6 -0327.3

5350 9.8 215047.6 -0333.6  
 5351 8.4 215047.5 -0326.5  
 5352 9.5 215114.9 -0314.0  
 5353 8.7 215215.0 -0341.1  
 5354 9.8 215220.7 -0300.7  
 5355 9.5 215244.3 -0313.0  
 5356 9.5 215258.3 -0347.7  
 5357 9.1 215305.5 -0326.0  
 5358 9.4 215308.4 -0323.0  
 5359 9.7 215340.4 -0315.1

5360 8.8 215351.3 -0354.5  
 5361 8.8 215403.1 -0309.9  
 5362 9.2 215414.5 -0303.1  
 5363 8.3 215519.7 -0310.6  
 5364 9.8 215520.2 -0342.9  
 5365 8.5 215601.7 -0346.2  
 5366 9.5 215615.1 -0311.4  
 5367 8.8 215619.2 -0330.2  
 5368 9.5 215637.8 -0315.9  
 5369 9.7 215701.2 -0332.3

5370 9.8 215716.1 -0300.7  
 5371 8.8 215731.2 -0334.7  
 5372 8.3 215733.3 -0354.8  
 5373 9.7 215749.3 -0304.4  
 5374 9.5 215755.4 -0306.8  
 5375 8.2 215830.6 -0348.7  
 5376 8.8 215851.5 -0311.1  
 5377 9.4 215859.2 -0344.2  
 5378 9.0 215915.3 -0350.9  
 5379 10. 215956.2 -0321.1

5380 9.9 220006.3 -0342.9  
 5381 10. 220010.1 -0302.4  
 5382 9.0 220011.6 -0303.9  
 5383 10. 220012.3 -0316.0  
 5384 9.8 220013.8 -0343.8  
 5385 9.4 220015.4 -0349.0  
 5386 9.4 220050.4 -0356.2  
 5387 9.5 220119.7 -0301.2  
 5388 9.4 220149.2 -0347.7  
 5389 9.8 220207.5 -0310.7

5390 9.5 220256.7 -0333.3  
 5391 9.5 220257.5 -0313.4  
 5392 9.5 220315.3 -0340.9  
 5393 9.8 220321.5 -0330.9  
 5394 8.7 220406.3 -0338.8  
 5395 9.5 220422.2 -0332.5  
 5396 9.6 220437.4 -0325.1  
 5397 9.6 220444.3 -0340.0  
 5398 9.1 220452.5 -0322.3  
 5399 9.3 220455.9 -0301.0

5400 9.5 220525.8 -0312.5  
 5401 9.8 220528.7 -0350.4  
 5402 9.4 220539.5 -0356.7  
 5403 9.0 220547.6 -0326.8  
 5404 9.5 220600.9 -0320.4  
 5405 9.9 220609.9 -0350.5  
 5406 9.5 220618.8 -0327.9  
 5407 9.5 220632.5 -0338.6  
 5408 9.2 220705.4 -0313.8  
 5409 9.5 220710.2 -0306.4

5410 9.5 220713.6 -0332.7  
 5411 9.5 220759.3 -0342.9  
 5412 9.0 220816.8 -0309.4  
 5413 8.3 220826.9 -0327.7  
 5414 9.2 220829.5 -0337.1  
 5415 8.8 220902.7 -0336.1  
 5416 9.6 220915.8 -0309.2  
 5417 9.8 220936.4 -0348.9  
 5418 9.6 220936.9 -0301.4  
 5419 9.8 220940.3 -0336.5

5420 8.5 220944.1 -0343.6  
 5421 9.7 221010.4 -0356.8  
 5422 9.0 221019.7 -0302.7  
 5423 9.0 221032.3 -0353.7  
 5424 9.8 221058.6 -0327.1  
 5425 9.6 221120.7 -0331.1  
 5426 9.5 221134.4 -0322.0  
 5427 9.5 221147.2 -0356.8  
 5428 9.4 221202.6 -0332.4  
 5429 9.5 221211.7 -0301.8

5430 9.8 221231.0 -0331.2  
 5431 9.3 221310.1 -0344.1  
 5432 9.9 221432.1 -0347.5  
 5433 8.8 221432.4 -0300.4  
 5434 9.8 221443.3 -0344.7  
 5435 9.0 221453.3 -0310.6  
 5436 9.8 221525.0 -0352.8  
 5437 9.0 221529.6 -0318.8  
 5438 7.7 221603.7 -0301.8  
 5439 9.8 221619.5 -0350.1

5440 8.3 221622.3 -0329.5  
 5441 9.8 221622.6 -0354.1  
 5442 9.5 221708.9 -0339.2  
 5443 7.2 221844.8 -0331.1  
 5444 9.8 221902.3 -0306.8  
 5445 9.9 221924.3 -0302.7  
 5446 10. 222000.5 -0323.6  
 5447 9.4 222010.5 -0337.4  
 5448 9.6 222017.0 -0330.3  
 5449 10. 222022.1 -0319.5



5450 8.5 222117.4 -0309.8  
 5451 9.5 222119.4 -0304.2  
 5452 8.3 222150.9 -0357.9  
 5453 9.3 222157.7 -0328.6  
 5454 9.9 222219.3 -0308.6  
 5455 9.5 222250.8 -0303.7  
 5456 9.7 222251.7 -0309.3  
 5457 9.8 222315.1 -0333.2  
 5458 9.5 222339.9 -0302.9  
 5459 9.6 222345.0 -0315.6

5460 6.3 222348.2 -0339.4  
 5461 9.9 222404.6 -0251.8  
 5462 9.8 222447.0 -0343.3  
 5463 9.8 222455.3 -0333.2  
 5464 9.1 222518.9 -0341.4  
 5465 10.1 222551.5 -0333.5  
 5466 9.5 222613.0 -0327.5  
 5467 9.6 222635.9 -0316.7  
 5468 9.1 222715.4 -0339.9  
 5469 9.6 222716.6 -0329.3

5470 9.6 222718.3 -0350.6  
 5471 9.8 222744.3 -0330.5  
 5472 8.3 222751.3 -0300.3  
 5473 8.4 222803.4 -0341.0  
 5474 9.5 222803.8 -0334.1  
 5475 9.9 222859.2 -0359.8  
 5476 9.4 222911.2 -0259.9  
 5477 10.1 222913.9 -0336.9  
 5478 10.1 223018.8 -0349.4  
 5479 9.3 223025.0 -0321.3

5480 9.9 223033.6 -0354.9  
 5481 8.3 223037.5 -0339.0  
 5482 8.4 223127.7 -0346.1  
 5483 9.3 223128.4 -0301.1  
 5484 9.7 223133.7 -0356.2  
 5485 9.5 223154.0 -0309.9  
 5486 9.4 223236.2 -0356.0  
 5487 8.5 223408.8 -0319.4  
 5488 9.1 223427.8 -0335.7  
 5489 9.5 223521.6 -0348.2

5490 8.7 223526.5 -0313.0  
 5491 8.2 223527.3 -0326.0  
 5492 9.6 223531.5 -0316.6  
 5493 10.1 223556.8 -0357.9  
 5494 9.5 223615.4 -0306.8  
 5495 9.5 223625.7 -0307.9  
 5496 9.0 223635.1 -0317.3  
 5497 9.4 223639.8 -0330.2  
 5498 9.4 223656.5 -0300.8  
 5499 9.4 223659.6 -0350.5

5500 9.3 223707.2 -0303.2  
 5501 8.5 223735.1 -0325.1  
 5502 10.1 223745.4 -0306.7  
 5503 8.9 223750.5 -0300.8  
 5504 10.1 223750.8 -0334.7  
 5505 7.5 223942.8 -0328.8  
 5506 9.3 224000.9 -0307.1  
 5507 9.0 224015.4 -0335.5  
 5508 9.2 224019.6 -0347.9  
 5509 9.0 224023.7 -0338.9

5510 9.0 224026.5 -0320.3  
 5511 9.8 224029.2 -0350.9  
 5512 9.8 224038.9 -0328.4  
 5513 9.7 224137.4 -0325.0  
 5514 9.7 224137.6 -0322.5  
 5515 8.9 224215.5 -0307.5  
 5516 9.1 224223.6 -0314.0  
 5517 8.3 224227.6 -0335.1  
 5518 8.8 224248.5 -0311.6  
 5519 10.1 224304.7 -0300.4

5520 9.8 224419.7 -0334.2  
 5521 7.8 224511.6 -0223.4  
 5522 9.5 224539.4 -0302.7  
 5523 9.2 224540.1 -0344.1  
 5524 9.2 224546.1 -0314.8  
 5525 9.3 224546.6 -0315.7  
 5526 8.7 224603.5 -0204.3  
 5527 8.5 224649.1 -0227.2  
 5528 9.5 224659.5 -0307.4  
 5529 9.8 224739.2 -0342.5

5530 9.3 224809.3 -0337.0  
 5531 9.5 224832.6 -0317.9  
 5532 9.5 224833.6 -0343.5  
 5533 9.3 224931.7 -0354.8  
 5534 9.0 224934.2 -0335.5  
 5535 9.5 224935.0 -0204.7  
 5536 8.3 224956.3 -0355.5  
 5537 10.1 225003.0 -0215.8  
 5538 8.9 225008.8 -0357.1  
 5539 6.3 225047.3 -0310.1

5540 9.8 225054.5 -0333.7  
 5541 9.8 225104.1 -0316.7  
 5542 9.8 225124.3 -0341.2  
 5543 9.3 225147.3 -0302.8  
 5544 8.2 225208.1 -0334.4  
 5545 7.8 225220.5 -0215.1  
 5546 9.1 225230.6 -0330.4  
 5547 9.5 225233.6 -0374.3  
 5548 9.5 225241.6 -0320.1  
 5549 9.2 225244.1 -0303.3

5550 9.3 225300.7 -0316.7  
 5551 9.6 225324.5 -0321.3  
 5552 8.8 225348.5 -0341.7  
 5553 7.8 225357.5 -0301.9  
 5554 9.3 225402.8 -0345.4  
 5555 9.6 225402.9 -0359.3  
 5556 9.4 225413.7 -0201.9  
 5557 9.0 225415.5 -0314.5  
 5558 9.9 225430.1 -0341.1  
 5559 9.0 225436.5 -0330.3

5560 9.6 225437.6 -0309.1  
 5561 9.8 225457.9 -0256.0  
 5562 9.7 225470.6 -0331.3  
 5563 9.5 225472.6 -0241.8  
 5564 9.8 225481.5 -0303.1  
 5565 9.7 225482.1 -0254.3  
 5566 10.1 225500.6 -0202.3  
 5567 9.6 225540.2 -0308.9  
 5568 9.8 225601.3 -0219.4  
 5569 9.8 225602.8 -0247.4

5570 9.8 225603.0 -0318.1  
 5571 9.7 225605.8 -0312.5  
 5572 10.1 225611.0 -0252.6  
 5573 9.5 225611.4 -0358.7  
 5574 9.2 225613.2 -0238.5  
 5575 9.1 225613.3 -0219.4  
 5576 8.0 225614.8 -0314.3  
 5577 8.2 225617.0 -0341.4  
 5578 10.1 225617.7 -0209.9  
 5579 10.1 225620.7 -0313.1

5580 9.6 225621.4 -0251.8  
 5581 9.8 225622.9 -0237.8  
 5582 9.8 225634.9 -0247.7  
 5583 9.7 225645.8 -0311.5  
 5584 8.3 225648.8 -0252.5  
 5585 9.4 225648.1 -0217.0  
 5586 9.3 225649.9 -0202.5  
 5587 10.1 225652.7 -0249.7  
 5588 10.1 225644.9 -0246.5  
 5589 9.5 225648.5 -0232.2

5590 9.3 225645.9 -0211.3  
 5591 9.8 225652.0 -0234.9  
 5592 7.1 225653.9 -0235.2  
 5593 9.5 225654.9 -0205.1  
 5594 10.1 225658.8 -0254.9  
 5595 9.8 225653.7 -0203.7  
 5596 9.6 225658.6 -0206.0  
 5597 9.5 225651.3 -0227.9  
 5598 9.5 225658.2 -0218.1  
 5599 9.5 225657.9 -0214.3

5600 9.0 225644.5 -0254.2  
 5601 9.8 225653.0 -0214.9  
 5602 9.4 225658.8 -0242.2  
 5603 9.5 225647.7 -0204.0  
 5604 10.1 225652.5 -0248.6  
 5605 9.4 225659.9 -0229.7  
 5606 9.4 225651.3 -0242.0  
 5607 8.7 225658.4 -0204.8  
 5608 9.5 225651.1 -0214.2  
 5609 9.0 225652.3 -0209.4

5610 9.5 225657.6 -0243.3  
 5611 9.4 225657.6 -0227.5  
 5612 9.7 225658.5 -0209.4  
 5613 10.1 225658.0 -0248.2  
 5614 9.7 225657.7 -0225.6  
 5615 10.1 225659.7 -0213.5  
 5616 9.5 225652.2 -0228.2  
 5617 9.5 225657.7 -0222.7  
 5618 9.5 225654.5 -0229.0  
 5619 9.0 225656.9 -0230.6

5620 8.9 225655.8 -0234.6  
 5621 9.4 225653.1 -0238.9  
 5622 9.4 225655.7 -0204.5  
 5623 9.4 225654.0 -0204.1  
 5624 9.2 225657.4 -0251.5  
 5625 9.8 225657.0 -0258.7  
 5626 10.1 225658.0 -0201.7  
 5627 9.6 225654.8 -0200.4  
 5628 10.1 225657.9 -0203.5  
 5629 9.5 225656.8 -0204.6

5630 8.1 225651.6 -0202.1  
 5631 8.4 225651.6 -0205.6  
 5632 9.1 225652.6 -0208.5  
 5633 9.8 225651.9 -0202.1  
 5634 8.5 225651.1 -0202.7  
 5635 10.1 225651.0 -0206.4  
 5636 9.5 225651.0 -0213.5  
 5637 9.5 225651.0 -0213.5  
 5638 9.5 225651.0 -0213.5  
 5639 9.5 225651.0 -0213.5

5640 9.5 225651.0 -0202.6  
 5641 9.5 225651.0 -0202.6  
 5642 9.5 225651.0 -0202.6  
 5643 9.5 225651.0 -0202.6  
 5644 9.5 225651.0 -0202.6  
 5645 9.5 225651.0 -0202.6  
 5646 9.5 225651.0 -0202.6  
 5647 9.5 225651.0 -0202.6  
 5648 9.5 225651.0 -0202.6  
 5649 9.5 225651.0 -0202.6

5650 9.5 225651.0 -0202.6  
 5651 9.5 225651.0 -0202.6  
 5652 9.5 225651.0 -0202.6  
 5653 9.5 225651.0 -0202.6  
 5654 9.5 225651.0 -0202.6  
 5655 9.5 225651.0 -0202.6  
 5656 9.5 225651.0 -0202.6  
 5657 9.5 225651.0 -0202.6  
 5658 9.5 225651.0 -0202.6  
 5659 9.5 225651.0 -0202.6

5660 9.5 225651.0 -0202.6  
 5661 9.5 225651.0 -0202.6  
 5662 9.5 225651.0 -0202.6  
 5663 9.5 225651.0 -0202.6  
 5664 9.5 225651.0 -0202.6  
 5665 9.5 225651.0 -0202.6  
 5666 9.5 225651.0 -0202.6  
 5667 9.5 225651.0 -0202.6  
 5668 9.5 225651.0 -0202.6  
 5669 9.5 225651.0 -0202.6

5670 9.5 225651.0 -0202.6  
 5671 9.5 225651.0 -0202.6  
 5672 9.5 225651.0 -0202.6  
 5673 9.5 225651.0 -0202.6  
 5674 9.5 225651.0 -0202.6  
 5675 9.5 225651.0 -0202.6  
 5676 9.5 225651.0 -0202.6  
 5677 9.5 225651.0 -0202.6  
 5678 9.5 225651.0 -0202.6  
 5679 9.5 225651.0 -0202.6

5680 9.5 225651.0 -0202.6  
 5681 9.5 225651.0 -0202.6  
 5682 9.5 225651.0 -0202.6  
 5683 9.5 225651.0 -0202.6  
 5684 9.5 225651.0 -0202.6  
 5685 9.5 225651.0 -0202.6  
 5686 9.5 225651.0 -0202.6  
 5687 9.5 225651.0 -0202.6  
 5688 9.5 225651.0 -0202.6  
 5689 9.5 225651.0 -0202.6

5690 9.5 225651.0 -0202.6  
 5691 9.5 225651.0 -0202.6  
 5692 9.5 225651.0 -0202.6  
 5693 9.5 225651.0 -0202.6  
 5694 9.5 225651.0 -0202.6  
 5695 9.5 225651.0 -0202.6  
 5696 9.5 225651.0 -0202.6  
 5697 9.5 225651.0 -0202.6  
 5698 9.5 225651.0 -0202.6  
 5699 9.5 225651.0 -0202.6

5700 9.5 225651.0 -0202.6  
 5701 9.5 225651.0 -0202.6  
 5702 9.5 225651.0 -0202.6  
 5703 9.5 225651.0 -0202.6  
 5704 9.5 225651.0 -0202.6  
 5705 9.5 225651.0 -0202.6  
 5706 9.5 225651.0 -0202.6  
 5707 9.5 225651.0 -0202.6  
 5708 9.5 225651.0 -0202.6  
 5709 9.5 225651.0 -0202.6

5710 9.5 225651.0 -0202.6  
 5711 9.5 225651.0 -0202.6  
 5712 9.5 225651.0 -0202.6  
 5713 9.5 225651.0 -0202.6  
 5714 9.5 225651.0 -0202.6  
 5715 9.5 225651.0 -0202.6  
 5716 9.5 225651.0 -0202.6  
 5717 9.5 225651.0 -0202.6  
 5718 9.5 225651.0 -0202.6  
 5719 9.5 225651.0 -0202.6

5720 8.9 225650.8 -0310.3  
 5721 9.5 225651.9 -0358.8  
 5722 9.5 225652.9 -0323.9  
 5723 6.0 225652.3 -0357.5  
 5724 9.4 225652.4 -0233.2  
 5725 9.5 225654.0 -0311.2  
 5726 10.1 225651.0 -0309.0  
 5727 9.1 225630.8 -0301.7  
 5728 8.5 225655.8 -0247.1  
 5729 9.6 225650.8 -0352.5

5730 9.5 225673.6 -0312.5  
 5731 9.1 225680.9 -0353.2  
 5732 9.3 225682.7 -0345.5  
 5733 9.2 225684.4 -0343.0  
 5734 8.8 225681.4 -0328.9  
 5735 8.8 225672.0 -0247.0  
 5736 8.9 225682.8 -0255.4  
 5737 9.5 225671.3 -0257.2  
 5738 8.1 225681.4 -0310.5  
 5739 9.7 225654.6 -0236.7

5740 10.1 225684.1 -0225.9  
 5741 7.2 225684.1 -0209.9  
 5742 9.7 225659.5 -0245.4  
 5743 9.1 225681.7 -0234.7  
 5744 9.4 225683.5 -0241.6  
 5745 9.4 225681.3 -0256.4  
 5746 8.8 225684.6 -0308.6  
 5747 9.8 225681.8 -0358.6  
 5748 9.1 225654.0 -0322.3  
 5749 9.2 225681.2 -0256.0

5750 7.2 225684.2 -0334.4  
 5751 9.1 225642.8 -0337.5  
 5752 8.2 225652.0 -0343.3  
 5753 9.8 225653.3 -0259.8  
 5754 9.5 225628.6 -0322.0  
 5755 9.4 225629.6 -0250.4  
 5756 9.8 225652.2 -0217.1  
 5757 10.1 225651.5 -0209.5  
 5758 9.4 225653.2 -0218.7  
 5759 10.1 225681.7 -0234.1

5760 9.1 225653.2 -0208.5  
 5761 8.8 225645.8 -0231.2  
 5762 9.8 225650.4 -0245.0  
 5763 9.1 225657.6 -0236.5  
 5764 9.4 225656.1 -0207.3  
 5765 9.2 225651.6 -0209.5  
 5766 9.4 225658.1 -0209.2  
 5767 9.2 225658.0 -0209.4  
 5768 9.3 225657.6 -0236.2  
 5769 10.1 00342.8 -0259.4

5770 7.8 00346.0 -0247.5  
 5771 10.1 00346.1 -0205.9  
 5772 9.7 00345.0 -0246.1  
 5773 9.1 00341.2 -0248.7  
 5774 11.2 00342.8 -0211.2  
 5775 12.2 00345.9 -0242.5  
 5776 9.5 00341.7 -0242.0  
 5777 16.4 00341.5 -0217.9  
 5778 11.9 00341.2 -0243.2  
 5779 11.9 00341.3 -0246.4

5780 9.1 00342.9 -0247.7  
 5781 11.5 00347.8 -0247.7  
 5782 9.4 00343.8 -0245.6  
 5783 9.8 00342.9 -0245.9  
 5784 9.7 00346.2 -0240.4  
 5785 9.2 00345.7 -0230.9  
 5786 9.0 00341.3 -0240.1  
 5787 9.4 00342.1 -0240.6  
 5788 9.1 00346.4 -0240.2  
 5789 9.3 00344.5 -0245.4

5790 9.0 00345.9 -0246.4  
 5791 9.4 00346.8 -0240.6  
 5792 8.7 00346.1 -0245.3  
 5793 8.7 00347.9 -0243.7  
 5794 9.0 00347.5 -0247.0  
 5795 8.4 00346.6 -0247.0  
 5796 9.2 00346.2 -0246.4  
 5797 9.4 00347.1 -0249.3  
 5798 9.4 00345.0 -0246.0  
 5799 9.4 00347.2 -0246.4



-04 47 0h20m

47 9.3 02002.3 -0456.0  
48 9.6 02039.8 -0421.2  
49 10.1 02104.7 -0424.4  
50 9.2 02156.8 -0403.7  
51 7.4 02205.7 -0416.3  
52 8.9 02213.9 -0449.0  
53 9.4 02222.5 -0411.1  
54 5.5 02237.9 -0445.2  
55 9.1 02353.9 -0445.3  
56 9.5 02413.0 -0412.5  
  
57 9.4 02440.8 -0411.2  
58 10.1 02546.9 -0423.6  
59 7.5 02547.8 -0439.1  
60 8.7 02600.5 -0450.5  
61 9.4 02728.2 -0409.6  
62 5.0 02747.6 -0423.2  
63 9.5 02816.9 -0457.4  
64 8.2 02933.1 -0411.8  
65 9.1 02934.8 -0427.6  
66 9.4 02955.6 -0446.3  
  
67 9.3 03018.5 -0428.3  
68 9.5 03130.2 -0453.5  
69 8.7 03144.7 -0458.5  
70 8.7 03145.6 -0447.1  
71 9.5 03227.0 -0433.3  
72 9.5 03237.0 -0436.0  
73 9.5 03244.0 -0428.5  
74 9.0 03247.4 -0453.0  
75 9.2 03304.8 -0457.4  
76 9.5 03306.4 -0409.2  
  
77 9.7 03312.8 -0458.5  
78 9.5 03332.0 -0432.1  
79 9.0 03336.6 -0453.2  
80 9.5 03404.1 -0450.0  
81 9.5 03412.1 -0440.6  
82 10.1 03415.9 -0419.2  
83 9.0 03430.5 -0445.8  
84 9.5 03445.1 -0450.4  
85 7.5 03538.4 -0438.8  
86 9.6 03557.7 -0411.4  
  
87 9.5 03717.0 -0445.8  
88 9.2 03726.3 -0459.3  
89 9.5 03747.2 -0441.0  
90 9.7 03749.1 -0437.9  
91 10.1 03805.0 -0419.6  
92 8.9 03819.9 -0429.1  
93 9.4 03832.3 -0426.2  
94 10.1 03953.1 -0423.1  
95 8.0 04039.9 -0430.3  
96 9.2 04045.3 -0406.1  
  
97 9.0 04114.2 -0439.7  
98 10.1 04114.7 -0416.0  
99 9.9 04145.5 -0414.7  
100 9.1 04203.1 -0412.0  
101 9.5 04236.5 -0404.4  
102 9.1 04236.7 -0448.2  
103 9.5 04312.6 -0456.1  
104 10.1 04423.0 -0456.3  
105 8.5 04426.2 -0452.4  
106 9.2 04518.6 -0404.5  
  
107 10.1 04543.3 -0441.0  
108 9.6 04559.6 -0426.4  
109 10.1 04631.4 -0451.0  
110 9.6 04634.0 -0459.2  
111 9.2 04744.2 -0437.7  
112 8.7 04819.9 -0446.8  
113 10.1 04834.7 -0438.1  
114 7.3 04839.4 -0431.3  
115 9.3 04936.6 -0427.4  
116 9.8 05004.7 -0456.8  
  
117 9.2 05011.2 -0433.8  
118 9.5 05019.9 -0403.3  
119 9.5 05032.4 -0444.3  
120 9.6 05112.7 -0456.4  
121 9.7 05221.7 -0410.0  
122 9.9 05231.0 -0422.8  
123 10.1 05231.4 -0405.4  
124 9.3 05234.8 -0414.0  
125 9.9 05252.9 -0417.5  
126 10.1 05317.6 -0423.9  
  
127 9.4 05344.5 -0448.5  
128 9.4 05408.1 -0458.6  
129 9.0 05421.0 -0423.2  
130 10.1 05438.5 -0415.8  
131 9.2 05458.2 -0415.8  
132 9.2 05519.5 -0415.2  
133 9.4 05556.8 -0435.7  
134 9.0 05610.4 -0400.8  
135 9.3 05612.4 -0418.7  
136 9.0 05640.3 -0452.3

137 9.4 05702.8 -0431.1  
138 9.5 05710.6 -0444.5  
139 9.0 05714.0 -0400.3  
140 8.5 05801.3 -0409.6  
141 9.8 05840.1 -0421.7  
142 10.1 05922.8 -0410.9  
143 8.8 10011.6 -0459.2  
144 9.1 10046.3 -0425.6  
145 9.5 10117.0 -0443.5  
146 9.5 10202.2 -0453.3  
  
147 9.5 10224.4 -0433.8  
148 9.7 10257.1 -0420.3  
149 9.8 10303.0 -0441.5  
150 9.6 10358.9 -0437.6  
151 8.8 10425.6 -0412.1  
152 9.5 10457.5 -0447.9  
153 8.9 10535.3 -0408.4  
154 9.0 10535.7 -0446.8  
155 10.1 10539.2 -0406.2  
156 9.8 10551.6 -0400.5  
  
157 8.5 10609.8 -0405.3  
158 9.0 10614.7 -0422.9  
159 9.3 10619.8 -0406.6  
160 9.5 10621.7 -0404.3  
161 9.7 10636.4 -0457.8  
162 9.8 10651.7 -0411.3  
163 8.9 10656.7 -0404.5  
164 9.5 10704.8 -0415.2  
165 9.4 10738.3 -0428.9  
166 8.9 10738.8 -0432.8  
  
167 9.6 10803.6 -0401.4  
168 9.4 10822.0 -0408.3  
169 9.8 10824.1 -0449.8  
170 9.7 10905.8 -0408.1  
171 10.1 10909.5 -0415.8  
172 9.8 10936.1 -0422.5  
173 9.6 10957.3 -0434.6  
174 8.7 11003.6 -0458.8  
175 9.5 11025.7 -0400.1  
176 10.1 11031.3 -0434.1  
  
177 9.3 11120.2 -0453.3  
178 9.8 11127.1 -0403.6  
179 9.3 11128.3 -0457.3  
180 10.1 11130.6 -0424.0  
181 9.2 11201.2 -0426.1  
182 9.3 11236.9 -0404.2  
183 9.1 11304.4 -0417.4  
184 10.1 11310.7 -0407.8  
185 6.5 11312.8 -0400.4  
186 9.3 11346.2 -0425.9  
  
187 9.9 11352.9 -0435.5  
188 9.1 11358.2 -0453.3  
189 8.5 11420.4 -0411.8  
190 10.1 11444.3 -0459.5  
191 9.6 11457.8 -0428.2  
192 9.8 11509.2 -0455.9  
193 7.8 11511.9 -0433.6  
194 9.0 11524.7 -0424.4  
195 9.6 11528.0 -0438.5  
196 9.2 11603.7 -0459.1  
  
197 10.1 11617.9 -0406.0  
198 9.5 11618.9 -0432.5  
199 8.8 11640.7 -0453.1  
200 9.8 11700.3 -0427.6  
201 9.8 11709.4 -0437.3  
202 9.3 11732.3 -0420.3  
203 8.5 11742.3 -0455.3  
204 10.1 11816.8 -0453.6  
205 9.0 11819.8 -0430.2  
206 9.8 11829.7 -0448.0  
  
207 6.8 11831.5 -0440.8  
208 9.4 11848.7 -0456.9  
209 9.8 11849.8 -0420.1  
210 9.8 11930.7 -0425.0  
211 10.1 12007.8 -0425.5  
212 9.3 12013.5 -0455.7  
213 8.1 12034.3 -0419.6  
214 9.1 12113.0 -0438.0  
215 9.8 12154.5 -0413.1  
216 9.0 12202.3 -0453.5  
  
217 9.4 12217.8 -0449.4  
218 8.8 12221.3 -0451.4  
219 9.8 12222.3 -0431.7  
220 8.8 12226.8 -0411.9  
221 9.0 12227.8 -0405.1  
222 9.2 12237.4 -0420.2  
223 9.5 12254.1 -0410.5  
224 9.0 12353.3 -0422.9  
225 10.1 12438.0 -0438.8  
226 9.4 12510.8 -0438.5

227 9.7 12516.9 -0421.5  
228 9.6 12517.3 -0428.0  
229 10.1 12537.3 -0425.9  
230 9.1 12610.3 -0415.5  
231 9.5 12613.2 -0443.8  
232 9.4 12623.6 -0406.0  
233 9.8 12631.9 -0450.8  
234 9.0 12709.0 -0403.5  
235 9.6 12714.1 -0409.8  
236 9.3 12726.7 -0411.4  
  
237 6.3 12730.8 -0415.9  
238 9.7 12804.8 -0422.0  
239 9.7 12808.0 -0403.9  
240 9.9 12842.6 -0455.8  
241 10.1 12853.2 -0441.5  
242 9.7 12855.9 -0415.3  
243 9.3 12902.0 -0402.4  
244 9.6 12907.3 -0449.5  
245 9.5 12912.1 -0450.4  
246 9.6 12936.2 -0400.7  
  
247 8.6 12940.6 -0401.5  
248 8.0 12952.9 -0452.6  
249 6.7 13031.6 -0410.7  
250 9.2 13032.6 -0412.5  
251 10.1 13054.7 -0405.8  
252 9.5 13117.5 -0432.7  
253 9.1 13245.1 -0404.6  
254 10.1 13328.5 -0431.3  
255 9.5 13331.0 -0440.7  
256 9.9 13428.3 -0419.7  
  
257 10.1 13432.7 -0437.8  
258 9.3 13433.6 -0447.6  
259 8.3 13500.7 -0409.4  
260 5.3 13523.5 -0425.5  
261 9.4 13552.0 -0455.5  
262 9.1 13555.3 -0415.1  
263 9.8 13655.9 -0414.4  
264 8.7 13711.9 -0411.8  
265 10.1 13739.0 -0407.0  
266 9.8 13751.2 -0437.7  
  
267 9.5 13801.4 -0422.5  
268 9.6 13822.6 -0402.1  
269 7.8 13838.7 -0457.0  
270 10.1 13920.9 -0420.5  
271 8.8 14032.7 -0403.3  
272 9.5 14050.0 -0453.6  
273 10.1 14103.5 -0443.7  
274 10.1 14117.7 -0404.6  
275 9.4 14140.6 -0446.0  
276 9.8 14142.7 -0459.2  
  
277 9.1 14146.3 -0441.1  
278 9.0 14219.5 -0427.5  
279 9.6 14225.7 -0401.3  
280 9.0 14240.5 -0425.4  
281 9.0 14243.1 -0450.9  
282 8.0 14310.6 -0425.2  
283 10.1 14354.3 -0435.0  
284 10.1 14405.2 -0405.8  
285 7.3 14408.5 -0456.3  
286 9.2 14430.1 -0413.4  
  
287 9.0 14434.2 -0423.3  
288 9.2 14450.1 -0433.4  
289 9.0 14457.7 -0402.7  
290 9.3 14500.0 -0409.5  
291 10.1 14519.3 -0438.8  
292 9.8 14533.1 -0415.0  
293 9.3 14617.9 -0416.0  
294 9.9 14654.7 -0430.9  
295 9.5 14659.7 -0410.9  
296 9.4 14704.6 -0423.3  
  
297 10.1 14709.5 -0441.7  
298 9.5 14803.3 -0401.7  
299 10.1 14809.6 -0426.5  
300 9.5 14810.2 -0432.5  
301 9.5 14822.6 -0414.9  
302 8.7 14823.6 -0451.0  
303 7.8 14900.1 -0453.5  
304 9.3 14914.5 -0414.4  
305 9.8 14950.3 -0407.2  
306 9.6 15012.2 -0429.4  
  
307 8.3 15036.4 -0425.1  
308 9.0 15020.1 -0449.8  
309 8.8 15217.5 -0413.1  
310 9.8 15239.5 -0444.6  
311 7.7 15250.0 -0459.6  
312 7.0 15255.5 -0404.1  
313 9.7 15300.7 -0451.2  
314 8.5 15315.4 -0438.6  
315 10.1 15319.1 -0422.0  
316 8.7 15346.7 -0458.5

317 9.8 15358.9 -0449.6  
318 9.2 15413.4 -0405.5  
319 9.2 15434.5 -0413.4  
320 9.1 15441.8 -0431.1  
321 9.3 15445.5 -0423.7  
322 9.5 15530.5 -0414.5  
323 9.0 15551.0 -0440.8  
324 6.0 15622.6 -0447.9  
325 9.0 15629.0 -0440.4  
326 9.5 15638.7 -0422.0  
  
327 9.2 15710.0 -0440.0  
328 9.8 15721.3 -0432.8  
329 9.5 15742.0 -0439.1  
330 9.0 15752.2 -0411.9  
331 9.5 15823.4 -0456.6  
332 9.0 15829.3 -0432.3  
333 8.9 15856.3 -0431.0  
334 9.8 15914.4 -0406.3  
335 10.1 15925.4 -0407.2  
336 9.6 15931.4 -0405.6  
  
337 9.8 15941.3 -0458.5  
338 7.5 15944.3 -0454.4  
339 10.1 20021.3 -0429.8  
340 9.9 20034.7 -0425.3  
341 10.1 20116.6 -0416.9  
342 9.4 20121.1 -0457.4  
343 9.0 20148.5 -0407.7  
344 9.3 20209.2 -0426.8  
345 9.4 20234.3 -0450.6  
346 9.7 20234.7 -0455.1  
  
347 9.7 20303.6 -0411.8  
348 9.1 20304.6 -0425.6  
349 9.9 20308.7 -0422.0  
350 8.2 20318.4 -0405.8  
351 9.8 20350.1 -0411.0  
352 9.8 20412.9 -0428.8  
353 9.8 20417.5 -0421.0  
354 9.5 20417.8 -0436.2  
355 9.8 20452.9 -0402.8  
356 9.3 20458.7 -0447.2  
  
357 9.4 20509.3 -0422.8  
358 9.0 20601.0 -0436.9  
359 9.2 20607.2 -0459.4  
360 9.0 20622.8 -0427.6  
361 8.5 20655.7 -0418.5  
362 9.0 20709.6 -0440.5  
363 10.1 20737.3 -0454.1  
364 9.0 20818.9 -0405.2  
365 9.4 20833.8 -0455.9  
366 8.4 20839.2 -0446.1  
  
367 8.3 20848.5 -0432.5  
368 9.9 20853.5 -0435.2  
369 10.1 20904.0 -0412.0  
370 9.5 20925.9 -0427.3  
371 9.6 21005.8 -0417.2  
372 9.0 21046.4 -0430.6  
373 10.1 21054.5 -0448.2  
374 8.3 21058.2 -0446.0  
375 8.9 21121.3 -0409.3  
376 9.4 21126.1 -0441.2  
  
377 10.1 21135.2 -0444.4  
378 8.6 21200.8 -0447.5  
379 8.5 21248.0 -0412.0  
380 9.6 21313.1 -0451.1  
381 9.7 21322.7 -0414.4  
382 9.0 21338.1 -0446.0  
383 9.9 21451.3 -0423.2  
384 9.4 21453.0 -0433.2  
385 9.2 21539.0 -0434.8  
386 9.4 21543.9 -0420.8  
  
387 9.9 21553.8 -0414.4  
388 9.5 21559.0 -0459.6  
389 9.8 21606.4 -0450.4  
390 8.6 21621.5 -0402.0  
391 9.3 21646.5 -0450.9  
392 9.8 21705.9 -0423.0  
393 9.8 21706.6 -0431.1  
394 7.0 21738.9 -0433.0  
395 9.7 21747.8 -0404.6  
396 8.5 21751.3 -0432.1  
  
397 10.1 21759.1 -0432.4  
398 10.1 21814.8 -0408.9  
399 9.8 21903.6 -0450.3  
400 9.0 21906.8 -0432.3  
401 9.5 21943.9 -0405.8  
402 9.1 21945.4 -0410.1  
403 9.4 22111.1 -0452.8  
404 8.5 22114.4 -0405.4  
405 9.8 22209.0 -0411.6  
406 9.8 22225.7 -0433.8

-04 406 2h22m



-04 407 2h22m

407 9.2 22239.1 -0451.2  
408 9.5 22319.5 -0415.0  
409 9.5 22341.9 -0401.9  
410 9.8 22354.1 -0425.7  
411 9.6 22402.0 -0454.6  
412 8.3 22419.3 -0437.6  
413 9.8 22419.3 -0404.9  
414 9.4 22444.7 -0428.1  
415 9.4 22454.3 -0413.9  
416 9.4 22454.5 -0448.7  
417 10. 22519.8 -0402.5  
418 9.8 22552.3 -0429.0  
419 9.1 22601.2 -0429.0  
420 9.8 22605.8 -0408.6  
421 9.2 22619.5 -0410.8  
422 9.1 22629.7 -0455.0  
423 9.5 22643.3 -0411.9  
424 9.2 22657.6 -0453.7  
425 9.5 22711.9 -0452.8  
426 7.0 22803.7 -0410.9  
427 9.5 22812.8 -0439.0  
428 8.5 22815.9 -0405.9  
429 9.5 22844.7 -0429.4  
430 9.0 22849.6 -0448.5  
431 8.2 22849.7 -0454.4  
432 9.4 22859.9 -0441.9  
433 8.3 22933.9 -0412.0  
434 8.3 22954.8 -0432.3  
435 9.4 23013.7 -0420.5  
436 6.0 23023.3 -0401.7  
437 9.5 23034.2 -0426.4  
438 9.8 23040.6 -0426.4  
439 9.2 23042.5 -0458.4  
440 9.6 23131.8 -0429.1  
441 9.3 23157.2 -0418.5  
442 9.4 23201.8 -0408.2  
443 9.5 23253.0 -0442.0  
444 9.8 23253.2 -0411.9  
445 9.5 23307.5 -0437.4  
446 8.6 23320.3 -0420.3  
447 9.4 23323.6 -0445.2  
448 9.6 23406.1 -0420.1  
449 9.2 23419.8 -0427.5  
450 10. 23427.4 -0443.0  
451 9.5 23458.7 -0428.3  
452 9.2 23523.3 -0406.1  
453 8.9 23525.2 -0423.6  
454 8.8 23535.1 -0456.1  
455 9.6 23538.2 -0415.5  
456 9.2 23548.2 -0453.8  
457 9.4 23552.1 -0446.0  
458 10. 23619.9 -0414.1  
459 9.5 23636.7 -0407.1  
460 10. 23641.6 -0446.8  
461 10. 23650.8 -0428.5  
462 9.5 23725.4 -0449.8  
463 9.3 23754.7 -0422.0  
464 9.8 23848.6 -0444.1  
465 9.4 23913.6 -0447.1  
466 9.8 23918.5 -0437.8  
467 9.8 24007.9 -0455.5  
468 9.6 24027.5 -0458.6  
469 9.4 24036.9 -0457.9  
470 7.3 24056.3 -0414.1  
471 9.5 24059.7 -0446.2  
472 9.6 24108.1 -0404.9  
473 9.4 24118.4 -0432.5  
474 9.5 24130.1 -0458.6  
475 9.3 24141.1 -0441.8  
476 7.0 24146.7 -0449.6  
477 9.1 24147.4 -0441.8  
478 9.8 24221.8 -0421.9  
479 8.7 24225.4 -0409.3  
480 10. 24226.7 -0448.7  
481 9.1 24403.0 -0401.6  
482 9.5 24406.2 -0444.9  
483 9.0 24431.3 -0403.9  
484 9.5 24523.8 -0422.6  
485 9.5 24545.7 -0422.6  
486 9.5 24553.0 -0418.6  
487 9.1 24600.7 -0419.2  
488 9.5 24607.9 -0402.4  
489 9.4 24609.9 -0405.4  
490 9.8 24623.7 -0408.3  
491 7.5 24627.8 -0450.2  
492 9.5 24641.1 -0421.7  
493 9.4 24652.7 -0446.5  
494 9.4 24719.3 -0459.6  
495 9.6 24744.8 -0424.8  
496 8.7 24755.9 -0454.4

497 9.4 24800.0 -0424.1  
498 9.1 24817.0 -0453.0  
499 10. 24834.0 -0415.3  
500 9.6 24847.3 -0453.5  
501 9.6 24851.2 -0409.3  
502 5.3 24920.7 -0417.8  
503 9.3 24956.7 -0458.5  
504 9.1 24957.2 -0442.1  
505 9.9 25056.7 -0443.9  
506 8.0 25125.4 -0447.2  
507 9.5 25132.9 -0427.8  
508 9.7 25142.1 -0412.2  
509 9.8 25203.9 -0455.5  
510 9.7 25206.0 -0433.6  
511 7.8 25217.7 -0441.8  
512 8.0 25251.1 -0415.2  
513 9.4 25318.5 -0421.2  
514 9.8 25358.8 -0448.0  
515 9.0 25451.4 -0427.0  
516 9.3 25455.5 -0421.9  
517 9.5 25459.0 -0433.0  
518 9.8 25526.6 -0435.6  
519 9.0 25550.4 -0402.5  
520 8.0 25657.3 -0453.9  
521 9.8 25716.0 -0410.5  
522 10. 25717.2 -0400.4  
523 9.2 25736.7 -0435.9  
524 9.5 25826.9 -0417.6  
525 9.2 25846.5 -0422.3  
526 9.2 30091.7 -0434.7  
527 10. 30019.5 -0457.6  
528 9.4 30039.4 -0412.3  
529 8.3 30111.1 -0408.7  
530 9.5 30129.0 -0428.0  
531 8.7 30129.7 -0414.9  
532 9.5 30135.5 -0422.0  
533 9.6 30158.0 -0426.7  
534 9.4 30219.7 -0437.0  
535 9.5 30241.7 -0436.1  
536 9.4 30250.6 -0426.0  
537 8.5 30267.7 -0427.1  
538 9.4 30324.5 -0458.4  
539 9.6 30342.3 -0442.6  
540 6.4 30403.6 -0422.0  
541 9.3 30407.5 -0424.0  
542 9.5 30432.6 -0406.1  
543 9.3 30452.1 -0458.4  
544 10. 30505.2 -0456.2  
545 9.9 30517.6 -0425.6  
546 9.8 30525.1 -0455.3  
547 9.4 30531.4 -0410.6  
548 9.3 30535.9 -0446.8  
549 9.5 30536.0 -0429.9  
550 9.5 30548.0 -0402.7  
551 9.2 30614.9 -0450.6  
552 9.8 30622.3 -0442.8  
553 9.4 30704.1 -0428.3  
554 9.1 30718.2 -0415.2  
555 9.5 30732.0 -0423.7  
556 10. 30748.5 -0420.9  
557 10. 30811.4 -0419.3  
558 9.8 30913.1 -0446.0  
559 9.5 30920.0 -0459.5  
560 7.5 30924.2 -0404.1  
561 7.5 30955.2 -0440.1  
562 9.5 30956.6 -0426.4  
563 9.4 31002.9 -0443.7  
564 9.5 31026.2 -0443.9  
565 8.9 31102.0 -0445.2  
566 9.7 31115.6 -0426.2  
567 9.7 31133.3 -0436.4  
568 9.1 31159.7 -0420.0  
569 10. 31239.8 -0428.0  
570 8.5 31244.1 -0452.7  
571 9.0 31335.8 -0450.5  
572 9.3 31412.9 -0416.7  
573 9.4 31413.6 -0457.6  
574 10. 31431.4 -0415.2  
575 9.6 31447.7 -0418.8  
576 9.8 31501.5 -0405.2  
577 9.5 31526.1 -0423.9  
578 9.5 31540.8 -0438.1  
579 9.8 31556.6 -0450.2  
580 9.5 31604.2 -0404.0  
581 9.5 31610.3 -0418.1  
582 9.8 31627.5 -0445.5  
583 9.1 31625.7 -0401.4  
584 9.5 31711.3 -0433.5  
585 8.0 31717.2 -0402.9  
586 6.9 31755.8 -0459.5

587 9.3 31755.8 -0402.9  
588 9.5 31805.7 -0454.8  
589 9.3 31824.3 -0404.6  
590 9.7 31826.1 -0442.5  
591 8.7 31838.3 -0435.1  
592 9.7 31842.8 -0429.3  
593 8.5 31858.9 -0453.0  
594 9.6 31901.2 -0406.8  
595 10. 31911.7 -0411.6  
596 10. 31950.6 -0446.2  
597 9.5 31959.0 -0445.8  
598 9.5 31959.2 -0459.1  
599 9.8 32033.7 -0434.0  
600 10. 32046.7 -0400.6  
601 9.2 32055.0 -0457.7  
602 9.4 32100.3 -0405.8  
603 10. 32144.3 -0446.2  
604 8.6 32159.5 -0417.9  
605 9.3 32202.2 -0420.0  
606 9.3 32239.7 -0449.0  
607 9.9 32303.9 -0447.4  
608 9.8 32320.9 -0451.9  
609 7.8 32326.1 -0446.6  
610 10. 32333.0 -0428.5  
611 9.8 32357.2 -0404.1  
612 9.0 32357.6 -0420.7  
613 7.3 32423.7 -0400.9  
614 9.0 32423.9 -0421.1  
615 9.6 32445.7 -0412.0  
616 10. 32501.4 -0423.9  
617 9.1 32503.5 -0427.7  
618 8.1 32511.5 -0451.3  
619 8.4 32529.7 -0454.6  
620 9.3 32557.8 -0429.6  
621 8.4 32610.9 -0452.2  
622 8.0 32620.7 -0429.1  
623 9.8 32627.0 -0404.0  
624 9.6 32621.3 -0448.5  
625 9.5 32622.5 -0430.5  
626 9.5 32622.3 -0444.3  
627 10. 32628.9 -0445.8  
628 9.5 32628.3 -0430.0  
629 9.0 32639.8 -0451.0  
630 8.7 32640.8 -0420.7  
631 9.1 32645.6 -0403.7  
632 8.5 32641.6 -0407.0  
633 9.9 32645.5 -0409.9  
634 9.7 32662.4 -0407.0  
635 9.8 32623.3 -0425.4  
636 8.9 33051.9 -0448.6  
637 9.9 33101.1 -0441.5  
638 9.2 33135.9 -0410.8  
639 9.4 33145.8 -0425.7  
640 9.0 33204.9 -0446.9  
641 9.1 33224.3 -0427.7  
642 9.1 33225.8 -0415.8  
643 9.4 33230.3 -0447.3  
644 9.9 33247.8 -0424.2  
645 9.1 33259.0 -0442.6  
646 9.9 33330.0 -0459.1  
647 8.3 33332.9 -0437.2  
648 9.8 33459.5 -0458.5  
649 9.6 33513.3 -0418.9  
650 9.2 33514.0 -0419.1  
651 9.8 33529.4 -0436.0  
652 9.0 33532.7 -0449.7  
653 9.2 33555.1 -0402.6  
654 9.4 33614.7 -0425.1  
655 8.5 33641.2 -0444.2  
656 9.5 33657.4 -0425.3  
657 9.6 33703.9 -0426.2  
658 9.5 33719.8 -0419.5  
659 9.8 33741.0 -0450.5  
660 9.8 33813.9 -0444.5  
661 9.5 33817.8 -0420.3  
662 9.5 33842.3 -0419.9  
663 9.4 33930.9 -0422.3  
664 9.5 33954.6 -0401.1  
665 9.4 34002.2 -0431.7  
666 9.7 34015.4 -0456.6  
667 9.1 34044.4 -0431.6  
668 8.4 34116.0 -0458.4  
669 9.2 34123.4 -0419.4  
670 7.3 34124.7 -0452.0  
671 9.5 34201.0 -0452.2  
672 8.7 34218.4 -0458.1  
673 9.8 34235.0 -0456.4  
674 7.5 34304.0 -0419.7  
675 9.8 34331.6 -0438.0  
676 9.4 34335.5 -0409.4

677 9.5 34341.7 -0450.5  
678 9.6 34401.1 -0428.9  
679 9.4 34410.0 -0415.9  
680 9.3 34437.9 -0415.9  
681 9.5 34449.4 -0417.0  
682 7.8 34453.2 -0402.2  
683 8.9 34540.8 -0453.1  
684 7.5 34548.0 -0448.0  
685 9.4 34617.6 -0401.6  
686 9.1 34618.9 -0424.5  
687 9.5 34703.6 -0443.6  
688 9.4 34718.9 -0430.9  
689 7.8 34721.5 -0435.1  
690 8.5 34732.5 -0447.0  
691 9.8 34756.9 -0428.8  
692 9.7 34758.9 -0421.0  
693 9.5 34809.9 -0454.2  
694 7.2 34837.4 -0456.8  
695 9.8 34926.2 -0432.0  
696 9.4 34926.5 -0407.6  
697 9.8 34931.2 -0401.5  
698 9.8 35013.3 -0446.1  
699 8.3 35015.0 -0438.3  
700 9.5 35024.3 -0441.3  
701 9.7 35024.4 -0445.8  
702 9.7 35040.7 -0445.6  
703 9.8 35041.8 -0457.1  
704 9.0 35105.9 -0406.1  
705 9.6 35113.4 -0439.8  
706 7.5 35125.0 -0403.6  
707 9.5 35137.1 -0459.9  
708 10. 35206.0 -0449.4  
709 8.2 35238.8 -0456.1  
710 9.2 35240.6 -0451.4  
711 9.2 35255.9 -0412.1  
712 9.1 35259.9 -0427.7  
713 9.8 35312.5 -0438.6  
714 9.3 35326.0 -0430.1  
715 9.5 35347.7 -0443.8  
716 9.0 35401.6 -0447.8  
717 9.8 35425.0 -0421.7  
718 9.4 35426.5 -0434.8  
719 9.0 35440.5 -0432.1  
720 10. 35448.6 -0447.1  
721 8.8 35459.5 -0427.3  
722 8.3 35502.5 -0455.4  
723 8.3 35503.6 -0442.1  
724 9.4 35507.5 -0425.7  
725 9.3 35532.0 -0408.1  
726 8.8 35706.6 -0436.8  
727 9.0 35733.9 -0401.4  
728 10. 35740.9 -0437.6  
729 8.7 35759.1 -0430.5  
730 9.3 35841.4 -0416.3  
731 9.4 35842.3 -0441.4  
732 9.8 35905.6 -0422.4  
733 9.8 35914.0 -0451.0  
734 9.5 35921.2 -0452.6  
735 9.0 35926.1 -0445.5  
736 8.8 35953.1 -0445.6  
737 9.5 40004.1 -0451.7  
738 9.2 40013.5 -0428.7  
739 9.4 40029.6 -0436.6  
740 10. 40032.8 -0414.1  
741 9.5 40043.7 -0432.5  
742 8.3 40045.5 -0434.4  
743 8.5 40046.0 -0423.5  
744 8.3 40118.5 -0424.1  
745 8.0 40142.9 -0455.0  
746 9.5 40148.6 -0425.4  
747 10. 40223.6 -0415.4  
748 9.1 40225.4 -0416.8  
749 9.7 40234.1 -0446.3  
750 9.5 40253.7 -0412.1  
751 8.4 40312.7 -0418.9  
752 9.5 40326.1 -0448.0  
753 8.5 40338.6 -0441.2  
754 10. 40351.2 -0428.4  
755 9.6 40351.3 -0442.2  
756 10. 40400.7 -0459.5  
757 9.0 40416.8 -0407.7  
758 9.0 40432.5 -0402.5  
759 9.1 40440.8 -0430.0  
760 9.5 40447.1 -0448.3  
761 8.8 40455.7 -0439.6  
762 8.7 40507.7 -0419.2  
763 7.0 40509.1 -0446.8  
764 9.7 40512.4 -0417.3  
765 8.9 40513.1 -0439.9  
766 9.1 40518.0 -0434.3

-04 766 4h05m



767 9.0 40529.7 -0430.3  
 768 8.9 40534.5 -0423.1  
 769 9.6 40548.9 -0454.9  
 770 7.8 40550.6 -0441.0  
 771 7.4 40558.9 -0415.1  
 772 9.6 40602.4 -0407.2  
 773 9.0 40602.7 -0416.8  
 774 8.5 40605.6 -0438.1  
 775 9.7 40616.0 -0415.0  
 776 9.7 40616.3 -0410.5

777 9.7 40706.5 -0455.5  
 778 9.6 40716.7 -0415.6  
 779 10. 40730.9 -0414.3  
 780 9.6 40736.2 -0435.3  
 781 9.8 40755.5 -0442.0  
 782 9.0 40757.0 -0447.0  
 783 9.5 40757.5 -0431.5  
 784 9.0 40803.4 -0443.0  
 785 9.1 40812.7 -0412.5  
 786 9.0 40842.1 -0448.6

787 9.5 40842.9 -0403.3  
 788 9.5 40900.8 -0401.1  
 789 9.0 40917.6 -0446.4  
 790 9.3 40930.7 -0452.0  
 791 9.5 40938.6 -0446.2  
 792 9.1 41024.6 -0443.3  
 793 9.0 41050.2 -0452.7  
 794 9.5 41110.3 -0424.3  
 795 8.8 41114.1 -0452.7  
 796 9.1 41119.6 -0425.4

797 9.5 41152.1 -0430.4  
 798 10. 41230.2 -0440.1  
 799 7.3 41246.5 -0447.0  
 800 8.5 41259.7 -0450.6  
 801 7.5 41301.1 -0405.2  
 802 9.5 41308.2 -0435.4  
 803 9.1 41334.0 -0405.6  
 804 9.8 41338.1 -0410.4  
 805 8.4 41343.6 -0454.2  
 806 7.3 41348.1 -0404.1

807 9.2 41436.1 -0412.5  
 808 9.3 41441.2 -0436.0  
 809 9.5 41449.7 -0442.2  
 810 10. 41503.7 -0407.9  
 811 9.6 41506.3 -0459.5  
 812 9.4 41542.7 -0429.8  
 813 9.0 41548.8 -0413.2  
 814 9.0 41553.0 -0406.0  
 815 9.7 41609.5 -0454.1  
 816 9.6 41625.2 -0453.6

817 8.0 41625.2 -0427.5  
 818 5.5 41627.1 -0405.3  
 819 8.9 41650.7 -0421.0  
 820 9.3 41659.6 -0408.8  
 821 9.0 41659.6 -0433.2  
 822 9.4 41708.5 -0416.2  
 823 10. 41723.9 -0457.1  
 824 9.5 41724.4 -0414.5  
 825 9.3 41800.0 -0432.1  
 826 9.8 41807.2 -0448.4

827 8.0 41812.5 -0406.4  
 828 9.5 41822.7 -0450.6  
 829 9.5 41856.7 -0425.3  
 830 10. 41902.0 -0458.8  
 831 8.0 41925.6 -0405.4  
 832 10. 41929.7 -0441.6  
 833 10. 41940.5 -0437.7  
 834 9.5 41941.7 -0428.5  
 835 9.4 41955.1 -0408.9  
 836 9.7 41956.4 -0409.1

837 10. 41956.4 -0406.7  
 838 9.4 42015.9 -0427.5  
 839 9.0 42016.3 -0443.6  
 840 10. 42021.6 -0427.3  
 841 9.6 42034.2 -0412.9  
 842 9.8 42054.5 -0454.6  
 843 9.0 42057.1 -0400.9  
 844 8.5 42102.2 -0445.9  
 845 10. 42128.7 -0423.8  
 846 8.9 42144.0 -0456.4

847 9.7 42152.4 -0408.5  
 848 9.8 42153.5 -0455.3  
 849 9.6 42203.5 -0401.6  
 850 8.0 42211.8 -0431.6  
 851 8.0 42233.0 -0455.0  
 852 8.8 42234.8 -0417.6  
 853 9.5 42254.5 -0455.8  
 854 9.3 42254.7 -0448.0  
 855 9.8 42313.9 -0427.1  
 856 9.5 42328.5 -0443.5

857 9.4 42335.2 -0445.7  
 858 9.8 42424.2 -0402.6  
 859 9.1 42433.0 -0454.1  
 860 9.3 42440.1 -0402.0  
 861 7.4 42448.3 -0441.6  
 862 8.9 42459.9 -0420.1  
 863 9.6 42515.2 -0422.8  
 864 8.8 42621.7 -0422.2  
 865 8.0 42622.6 -0417.1  
 866 9.0 42632.2 -0423.3

867 8.3 42700.4 -0451.5  
 868 9.7 42705.1 -0456.1  
 869 9.8 42710.3 -0432.5  
 870 9.3 42721.2 -0409.4  
 871 9.3 42723.7 -0405.0  
 872 9.5 42758.8 -0439.6  
 873 9.1 42803.3 -0434.4  
 874 9.8 42815.0 -0441.2  
 875 8.3 42815.7 -0455.7  
 876 9.5 42828.9 -0413.2

877 9.1 42829.1 -0439.1  
 878 9.1 42904.0 -0409.2  
 879 8.2 42911.8 -0439.8  
 880 10. 42931.6 -0403.5  
 881 9.2 42939.7 -0423.1  
 882 9.4 43015.4 -0417.9  
 883 9.4 43017.5 -0409.2  
 884 9.8 43024.6 -0405.1  
 885 8.8 43032.8 -0430.1  
 886 9.1 43045.0 -0435.0

887 9.8 43046.1 -0444.2  
 888 9.1 43049.3 -0447.1  
 889 8.3 43117.8 -0428.0  
 890 9.4 43124.1 -0403.1  
 891 9.7 43128.6 -0429.1  
 892 9.8 43132.4 -0425.2  
 893 9.3 43135.7 -0412.1  
 894 9.2 43156.2 -0422.8  
 895 8.5 43159.1 -0459.2  
 896 9.2 43220.1 -0406.2

897 9.5 43237.4 -0427.0  
 898 8.7 43240.0 -0423.2  
 899 9.1 43240.7 -0408.0  
 900 9.5 43250.2 -0401.3  
 901 9.3 43250.5 -0410.9  
 902 9.1 43304.1 -0436.8  
 903 9.8 43304.3 -0421.2  
 904 9.8 43307.2 -0413.3  
 905 9.5 43317.2 -0422.1  
 906 10. 43323.1 -0414.3

907 9.8 43326.2 -0413.8  
 908 9.4 43342.0 -0429.8  
 909 9.8 43344.1 -0445.1  
 910 9.3 43354.7 -0418.1  
 911 9.3 43403.9 -0446.2  
 912 9.7 43412.2 -0411.8  
 913 9.0 43439.2 -0409.5  
 914 9.4 43449.3 -0402.1  
 915 9.8 43473.8 -0436.8  
 916 9.4 43503.4 -0440.8

917 9.8 43503.3 -0418.2  
 918 9.3 43520.7 -0434.1  
 919 9.2 43524.2 -0417.7  
 920 9.4 43532.3 -0420.4  
 921 9.8 43534.4 -0454.4  
 922 8.0 43541.3 -0423.7  
 923 9.0 43551.1 -0458.5  
 924 9.8 43604.4 -0450.5  
 925 9.1 43624.0 -0418.8  
 926 9.8 43626.4 -0445.7

927 9.3 43631.8 -0423.0  
 928 8.5 43638.8 -0434.3  
 929 9.7 43709.4 -0442.2  
 930 9.7 43717.6 -0456.1  
 931 8.4 43723.3 -0419.5  
 932 9.8 43752.8 -0427.5  
 933 9.8 43754.3 -0413.4  
 934 9.4 43815.6 -0441.7  
 935 8.2 43849.0 -0421.2  
 936 10. 43854.6 -0446.1

937 10. 43857.8 -0429.8  
 938 9.4 43922.5 -0452.4  
 939 8.8 43927.5 -0452.6  
 940 8.3 43928.0 -0444.5  
 941 10. 44022.9 -0429.2  
 942 9.4 44038.0 -0427.2  
 943 9.5 44038.3 -0416.5  
 944 9.4 44042.4 -0425.9  
 945 9.3 44049.5 -0442.9  
 946 9.2 44114.8 -0457.6

947 9.4 44150.7 -0436.3  
 948 9.8 44208.3 -0423.6  
 949 8.2 44209.0 -0402.5  
 950 9.7 44217.4 -0456.7  
 951 9.3 44238.4 -0431.9  
 952 9.4 44238.6 -0445.2  
 953 9.5 44313.2 -0445.3  
 954 7.3 44315.5 -0407.0  
 955 8.4 44325.7 -0422.4  
 956 9.9 44334.3 -0438.2

957 10. 44334.6 -0441.3  
 958 9.8 44412.3 -0426.7  
 959 9.8 44421.1 -0435.6  
 960 9.7 44435.5 -0415.3  
 961 9.7 44456.6 -0442.5  
 962 9.1 44506.9 -0413.4  
 963 9.8 44542.2 -0459.5  
 964 9.3 44548.1 -0445.2  
 965 8.8 44602.7 -0447.8  
 966 8.4 44610.9 -0403.8

967 9.7 44639.7 -0409.4  
 968 9.6 44646.2 -0449.3  
 969 10. 44650.3 -0426.6  
 970 9.5 44706.7 -0446.3  
 971 9.4 44707.9 -0401.5  
 972 9.1 44713.1 -0417.8  
 973 9.0 44802.9 -0405.9  
 974 9.0 44805.2 -0434.8  
 975 9.6 44815.3 -0418.8  
 976 9.4 44819.4 -0454.0

977 9.7 44824.9 -0404.6  
 978 8.0 44850.8 -0409.6  
 979 9.5 44859.5 -0436.9  
 980 9.8 44914.7 -0419.4  
 981 9.3 44933.5 -0437.0  
 982 9.0 44936.4 -0447.8  
 983 10. 44956.6 -0446.0  
 984 9.4 45004.4 -0426.8  
 985 10. 45020.0 -0449.5  
 986 9.2 45021.7 -0415.4

987 8.0 45037.8 -0453.1  
 988 8.4 45119.6 -0439.0  
 989 9.1 45126.0 -0402.8  
 990 8.2 45126.7 -0447.2  
 991 9.9 45128.9 -0432.8  
 992 9.0 45139.4 -0401.5  
 993 9.8 45145.5 -0401.1  
 994 9.5 45157.4 -0430.9  
 995 8.5 45206.7 -0448.8  
 996 8.1 45213.3 -0424.9

997 9.5 45233.4 -0433.4  
 998 8.7 45236.6 -0435.1  
 999 9.2 45238.8 -0455.8  
 1000 9.4 45315.5 -0409.2  
 1001 9.3 45326.2 -0452.5  
 1002 8.8 45339.1 -0440.0  
 1003 9.2 45344.9 -0411.4  
 1004 9.5 45352.7 -0444.5  
 1005 9.1 45353.8 -0421.5  
 1006 9.8 45355.0 -0453.1

1007 9.5 45358.5 -0441.2  
 1008 9.8 45401.9 -0427.9  
 1009 8.9 45421.0 -0403.7  
 1010 9.6 45422.5 -0400.4  
 1011 9.4 45438.7 -0450.9  
 1012 9.8 45439.4 -0410.8  
 1013 10. 45453.8 -0422.2  
 1014 9.8 45458.5 -0403.9  
 1015 9.3 45508.9 -0413.1  
 1016 9.5 45515.5 -0404.4

1017 10. 45527.9 -0443.5  
 1018 9.5 45529.3 -0449.3  
 1019 6.0 45533.8 -0425.2  
 1020 9.3 45534.9 -0401.3  
 1021 9.6 45541.1 -0402.2  
 1022 9.8 45544.7 -0418.6  
 1023 9.8 45617.6 -0431.7  
 1024 9.6 45621.2 -0418.8  
 1025 8.5 45631.4 -0425.0  
 1026 9.4 45634.5 -0429.4

1027 10. 45641.9 -0410.9  
 1028 9.2 45654.0 -0403.0  
 1029 9.4 45716.9 -0400.1  
 1030 9.8 45726.0 -0417.4  
 1031 9.1 45739.4 -0403.4  
 1032 8.9 45745.0 -0407.5  
 1033 9.7 45753.5 -0410.6  
 1034 10. 45757.2 -0443.4  
 1035 9.0 45757.9 -0453.0  
 1036 9.8 45803.6 -0414.0

1037 9.2 45808.7 -0416.7  
 1038 9.1 45823.5 -0431.8  
 1039 9.8 45831.0 -0403.5  
 1040 10. 45837.0 -0410.6  
 1041 10. 45853.8 -0453.0  
 1042 8.3 45932.1 -0441.6  
 1043 8.9 45932.5 -0426.1  
 1044 5.0 45935.8 -0451.0  
 1045 9.5 45947.0 -0446.2  
 1046 9.5 45947.8 -0422.3

1047 9.5 45949.7 -0403.1  
 1048 10. 45951.1 -0437.3  
 1049 8.5 50012.9 -0424.6  
 1050 9.5 50033.0 -0442.9  
 1051 9.8 50045.8 -0455.2  
 1052 9.8 50103.7 -0406.7  
 1053 9.0 50109.8 -0417.0  
 1054 8.5 50111.7 -0401.8  
 1055 9.0 50121.9 -0435.8  
 1056 6.2 50132.8 -0439.1

1057 9.6 50143.1 -0440.8  
 1058 9.5 50204.9 -0437.6  
 1059 8.8 50223.7 -0406.6  
 1060 9.3 50255.8 -0421.4  
 1061 7.5 50256.7 -0402.2  
 1062 9.5 50345.8 -0412.0  
 1063 9.4 50357.8 -0421.8  
 1064 9.5 50437.9 -0428.5  
 1065 10. 50507.0 -0448.2  
 1066 9.5 50517.0 -0449.0

1067 9.5 50517.8 -0420.9  
 1068 9.0 50528.0 -0450.8  
 1069 10. 50538.9 -0436.1  
 1070 10. 50548.7 -0401.7  
 1071 9.5 50602.9 -0434.3  
 1072 9.8 50614.9 -0414.6  
 1073 8.0 50618.0 -0449.9  
 1074 9.2 50626.8 -0410.6  
 1075 9.4 50656.5 -0458.8  
 1076 9.5 50708.9 -0431.2

1077 8.5 50727.8 -0409.8  
 1078 9.4 50729.7 -0400.3  
 1079 9.0 50742.0 -0448.1  
 1080 9.5 50746.7 -0403.0  
 1081 9.1 50805.4 -0405.2  
 1082 9.5 50822.3 -0413.0  
 1083 9.9 50828.3 -0410.1  
 1084 7.3 50835.3 -0458.2  
 1085 9.2 50855.9 -0437.7  
 1086 9.5 50903.8 -0422.6

1087 9.5 50937.8 -0416.3  
 1088 10. 50955.9 -0437.3  
 1089 9.4 51007.7 -0406.5  
 1090 8.7 51026.1 -0453.8  
 1091 9.2 51041.0 -0437.3  
 1092 9.4 51043.8 -0416.8  
 1093 9.0 51045.0 -0439.6  
 1094 9.8 51045.1 -0459.6  
 1095 9.0 51059.9 -0425.9  
 1096 9.3 51103.9 -0426.5

1097 9.3 51116.0 -0446.6  
 1098 9.5 51120.6 -0458.6  
 1099 9.0 51121.0 -0446.6  
 1100 9.5 51146.1 -0451.9  
 1101 9.1 51204.6 -0458.5  
 1102 8.5 51219.9 -0429.6  
 1103 10. 51254.7 -0458.6  
 1104 9.0 51306.1 -0439.4  
 1105 8.5 51312.7 -0456.8  
 1106 9.5 51325.8 -0403.6

1107 10. 51503.0 -0428.2  
 1108 10. 51515.0 -0430.8  
 1109 9.5 51553.0 -0424.1  
 1110 9.2 51609.8 -0403.6  
 1111 9.3 51610.9 -0442.8  
 1112 10. 51638.7 -0441.1  
 1113 8.4 51640.7 -0442.3  
 1114 9.5 51701.9 -0409.0  
 1115 9.5 51718.9 -0421.5  
 1116 9.0 51742.7 -0442.0

1117 9.7 51743.0 -0430.8  
 1118 9.5 51811.1 -0459.2  
 1119 9.0 51816.2 -0451.3  
 1120 9.2 51819.7 -0453.9  
 1121 9.0 51820.8 -0400.8  
 1122 9.0 51829.8 -0406.2  
 1123 9.1 51848.2 -0456.1  
 1124 9.4 51910.1 -0449.9  
 1125 9.3 51918.9 -0417.3  
 1126 9.0 51922.1 -0446.3



-04 1127 5h19m

1127 9.5 51922.2 -0455.6  
1128 9.0 51927.0 -0422.6  
1129 9.3 51929.9 -0418.2  
1130 9.3 51930.9 -0419.5  
1131 9.0 51932.9 -0411.1  
1132 8.6 51947.0 -0425.8  
1133 9.0 52005.1 -0434.4  
1134 9.0 52010.0 -0424.4  
1135 9.3 52031.8 -0407.9  
1136 9.5 52047.9 -0416.9

1137 9.7 52057.1 -0440.1  
1138 9.4 52103.0 -0428.0  
1139 10. 52113.4 -0413.7  
1140 9.5 52114.5 -0419.0  
1141 7.5 52125.2 -0449.4  
1142 9.2 52125.2 -0419.5  
1143 9.3 52126.4 -0418.1  
1144 9.4 52148.9 -0449.3  
1145 10. 52151.0 -0447.9  
1146 30.0 52151.1 -0448.5

1147 9.1 52204.4 -0456.2  
1148 9.5 52205.1 -0441.8  
1149 9.5 52241.8 -0404.8  
1150 9.5 52252.1 -0449.0  
1151 10. 52324.2 -0452.6  
1152 8.0 52341.0 -0422.2  
1153 9.1 52351.1 -0442.7  
1154 9.2 52351.9 -0403.3  
1155 8.7 52356.6 -0456.0  
1156 9.2 52410.4 -0402.7

1157 9.5 52433.0 -0423.4  
1158 9.5 52443.0 -0423.4  
1159 9.7 52447.8 -0404.6  
1160 9.0 52502.9 -0416.7  
1161 9.0 52504.0 -0424.7  
1162 8.8 52505.0 -0437.3  
1163 9.0 52516.5 -0441.5  
1164 8.0 52546.9 -0440.4  
1165 9.0 52604.1 -0444.3  
1166 9.0 52606.9 -0427.9

1167 7.5 52714.2 -0455.0  
1168 9.0 52715.0 -0427.8  
1169 9.5 52718.1 -0439.9  
1170 10. 52719.0 -0430.5  
1171 8.0 52722.0 -0435.4  
1172 8.0 52731.0 -0429.6  
1173 7.0 52741.9 -0412.2  
1174 9.5 52744.0 -0426.5  
1175 9.3 52746.1 -0451.5  
1176 8.5 52747.0 -0426.9

1177 9.5 52749.1 -0438.1  
1178 9.0 52753.0 -0428.2  
1179 8.0 52756.2 -0449.6  
1180 9.0 52803.1 -0442.5  
1181 9.5 52804.2 -0457.7  
1182 9.2 52808.1 -0447.9  
1183 7.0 52809.0 -0435.8  
1184 7.0 52811.0 -0430.9  
1185 4.5 52813.6 -0456.6  
1186 7.0 52819.1 -0428.2

1187 8.7 52823.6 -0455.5  
1188 6.0 52831.1 -0457.5  
1189 9.5 52853.1 -0451.4  
1190 7.8 52855.0 -0430.9  
1191 10. 52940.8 -0431.8  
1192 10. 53006.5 -0403.2  
1193 9.7 53012.1 -0446.5  
1194 9.4 53029.5 -0401.8  
1195 10. 53031.9 -0425.9  
1196 7.0 53063.2 -0454.0

1197 9.6 53048.4 -0458.9  
1198 7.5 53102.9 -0411.1  
1199 9.5 53114.8 -0406.7  
1200 9.2 53129.1 -0446.5  
1201 9.0 53137.7 -0421.7  
1202 10. 53147.2 -0417.0  
1203 8.8 53207.1 -0446.5  
1204 9.0 53212.2 -0451.4  
1205 9.7 53212.8 -0407.2  
1206 9.5 53243.1 -0448.6

1207 9.3 53256.1 -0437.9  
1208 9.5 53304.1 -0449.1  
1209 9.7 53306.8 -0428.4  
1210 8.2 53314.0 -0430.4  
1211 9.4 53318.8 -0426.4  
1212 9.2 53327.8 -0400.9  
1213 9.5 53338.1 -0448.7  
1214 9.5 53414.0 -0427.6  
1215 9.5 53416.0 -0428.5  
1216 9.5 53418.8 -0404.9

1217 9.3 53421.1 -0451.3  
1218 9.5 53444.0 -0432.6  
1219 9.5 53452.1 -0441.5  
1220 9.5 53526.0 -0430.7  
1221 9.2 53530.9 -0454.6  
1222 9.5 53532.9 -0408.3  
1223 8.5 53536.1 -0443.1  
1224 9.2 53549.9 -0454.5  
1225 9.9 53554.7 -0458.4  
1226 9.4 53648.0 -0434.8

1227 8.0 53652.0 -0437.9  
1228 9.5 53708.1 -0455.6  
1229 9.9 53714.7 -0403.3  
1230 10. 53718.2 -0405.4  
1231 7.5 53723.1 -0445.8  
1232 9.5 53754.0 -0427.9  
1233 9.0 53803.9 -0417.6  
1234 9.5 53829.2 -0459.1  
1235 6.5 53850.9 -0419.8  
1236 8.5 53859.8 -0404.6

1237 8.8 53913.8 -0404.2  
1238 9.0 54007.0 -0431.8  
1239 9.5 54009.9 -0411.7  
1240 10. 54030.8 -0405.0  
1241 9.4 54052.2 -0459.8  
1242 9.5 54058.0 -0429.1  
1243 9.0 54103.2 -0451.8  
1244 6.5 54122.9 -0408.6  
1245 9.4 54148.3 -0455.6  
1246 10. 54153.0 -0428.2

1247 9.5 54212.2 -0453.2  
1248 9.5 54223.8 -0439.9  
1249 9.7 54225.5 -0429.6  
1250 9.5 54227.9 -0416.2  
1251 8.5 54229.1 -0430.4  
1252 10. 54244.0 -0438.4  
1253 10. 54254.8 -0440.0  
1254 9.5 54258.9 -0414.0  
1255 9.5 54315.1 -0442.5  
1256 9.4 54321.8 -0455.3

1257 9.3 54324.1 -0434.8  
1258 8.8 54352.7 -0457.3  
1259 9.2 54359.1 -0437.9  
1260 9.5 54426.2 -0428.0  
1261 9.8 54442.3 -0455.3  
1262 10. 54443.2 -0433.2  
1263 9.5 54447.9 -0413.9  
1264 9.5 54501.9 -0413.9  
1265 9.5 54505.2 -0449.6  
1266 10. 54524.0 -0423.2

1267 9.5 54538.4 -0433.1  
1268 9.6 54546.5 -0439.9  
1269 9.6 54549.3 -0421.9  
1270 9.4 54551.4 -0429.6  
1271 9.5 54616.2 -0458.8  
1272 9.8 54617.6 -0440.7  
1273 10. 54624.1 -0446.3  
1274 9.4 54631.4 -0432.2  
1275 9.8 54635.1 -0446.3  
1276 8.6 54655.8 -0459.3

1277 9.5 54700.0 -0404.9  
1278 9.4 54700.8 -0456.4  
1279 9.5 54703.0 -0421.4  
1280 9.0 54714.1 -0445.9  
1281 7.0 54722.9 -0405.8  
1282 9.5 54734.9 -0405.4  
1283 10. 54735.7 -0434.5  
1284 9.5 54736.0 -0411.2  
1285 9.3 54804.0 -0414.2  
1286 8.4 54805.9 -0404.9

1287 9.0 54815.2 -0437.9  
1288 7.8 54816.7 -0451.2  
1289 6.0 54819.2 -0438.4  
1290 9.7 54821.5 -0456.4  
1291 7.0 54825.7 -0449.0  
1292 8.9 54837.9 -0406.6  
1293 9.5 54846.5 -0413.8  
1294 9.8 54850.7 -0448.1  
1295 10. 54911.1 -0432.1  
1296 9.5 54914.1 -0423.2

1297 9.5 54927.9 -0400.8  
1298 9.5 54932.8 -0456.3  
1299 9.4 55006.2 -0444.0  
1300 9.3 55013.9 -0400.7  
1301 9.5 55017.3 -0453.8  
1302 10. 55026.0 -0413.0  
1303 9.7 55036.0 -0436.8  
1304 9.5 55044.8 -0456.8  
1305 8.5 55051.2 -0447.1  
1306 9.0 55053.0 -0417.2

1307 9.3 55054.9 -0400.7  
1308 9.1 55100.2 -0439.1  
1309 9.8 55104.8 -0413.5  
1310 7.0 55110.2 -0439.5  
1311 10. 55127.1 -0436.6  
1312 9.5 55146.1 -0422.1  
1313 9.5 55153.0 -0411.4  
1314 9.5 55158.1 -0427.0  
1315 9.0 55202.2 -0446.6  
1316 8.8 55204.1 -0422.5

1317 9.3 55209.7 -0439.9  
1318 9.0 55224.0 -0421.2  
1319 9.8 55237.2 -0440.5  
1320 9.7 55251.8 -0456.6  
1321 9.5 55256.2 -0444.9  
1322 9.8 55316.4 -0403.8  
1323 9.5 55325.3 -0454.2  
1324 9.5 55328.1 -0424.7  
1325 9.7 55334.8 -0457.1  
1326 10. 55343.8 -0457.4

1327 9.4 55400.2 -0449.7  
1328 9.4 55416.2 -0449.7  
1329 9.4 55420.2 -0448.4  
1330 10. 55425.9 -0404.6  
1331 10. 55448.1 -0430.0  
1332 9.0 55450.5 -0422.5  
1333 9.8 55454.3 -0408.7  
1334 9.8 55459.4 -0413.2  
1335 9.4 55521.1 -0432.3  
1336 9.0 55528.0 -0415.3

1337 10. 55529.4 -0456.9  
1338 9.2 55545.9 -0400.2  
1339 9.4 55547.1 -0435.0  
1340 9.7 55555.9 -0455.1  
1341 9.5 55557.9 -0403.2  
1342 9.5 55605.3 -0454.1  
1343 9.5 55630.2 -0429.9  
1344 9.3 55652.3 -0454.7  
1345 10. 55713.0 -0439.5  
1346 9.6 55719.6 -0433.7

1347 9.7 55724.0 -0426.1  
1348 9.8 55735.3 -0450.6  
1349 10. 55746.0 -0447.5  
1350 10. 55817.5 -0447.4  
1351 8.8 55818.2 -0435.7  
1352 8.8 55826.3 -0446.9  
1353 9.2 55826.7 -0419.7  
1354 9.5 55836.1 -0426.2  
1355 9.4 55841.8 -0425.4  
1356 9.0 55851.2 -0433.6

1357 9.2 55852.2 -0444.3  
1358 9.5 55857.0 -0414.3  
1359 9.5 55902.2 -0442.4  
1360 9.0 55904.2 -0445.2  
1361 10. 55915.0 -0409.8  
1362 6.0 55928.0 -0410.7  
1363 9.5 55940.2 -0448.2  
1364 9.0 55947.2 -0448.7  
1365 9.0 55957.1 -0434.9  
1366 9.0 60007.0 -0432.2

1367 9.5 60009.2 -0451.2  
1368 9.0 60013.2 -0433.5  
1369 9.0 60022.0 -0407.1  
1370 9.7 60035.2 -0448.2  
1371 9.7 60116.7 -0445.5  
1372 9.5 60124.2 -0439.7  
1373 9.0 60128.9 -0404.9  
1374 9.0 60136.0 -0412.0  
1375 9.5 60143.2 -0437.9  
1376 9.2 60155.9 -0403.0

1377 9.0 60212.9 -0404.4  
1378 9.5 60238.7 -0452.0  
1379 9.0 60242.1 -0431.9  
1380 9.0 60250.1 -0418.6  
1381 9.0 60255.0 -0411.0  
1382 9.5 60258.0 -0407.9  
1383 8.5 60362.2 -0440.0  
1384 9.5 60305.3 -0456.4  
1385 9.5 60308.2 -0444.9  
1386 9.5 60334.1 -0431.9

1387 10. 60336.1 -0427.1  
1388 9.5 60340.1 -0433.4  
1389 9.5 60400.1 -0424.4  
1390 9.5 60409.9 -0405.2  
1391 9.1 60417.9 -0457.9  
1392 9.8 60426.6 -0453.0  
1393 6.5 60433.2 -0428.0  
1394 9.5 60436.0 -0442.1  
1395 9.7 60438.3 -0454.3  
1396 9.5 60448.0 -0415.0

-04 1486 6h16m

1397 9.1 60449.5 -0450.4  
1398 9.5 60452.2 -0440.0  
1399 9.5 60507.5 -0445.4  
1400 9.3 60531.3 -0408.3  
1401 9.2 60534.3 -0414.6  
1402 9.0 60535.2 -0401.7  
1403 9.0 60541.3 -0412.0  
1404 9.5 60546.3 -0409.3  
1405 7.0 60553.5 -0453.8  
1406 10. 60559.4 -0436.9

1407 7.7 60604.2 -0458.3  
1408 9.5 60610.7 -0429.1  
1409 9.5 60620.2 -0403.0  
1410 8.4 60621.6 -0433.9  
1411 9.1 60625.3 -0411.8  
1412 9.3 60637.6 -0454.4  
1413 9.6 60639.8 -0433.1  
1414 9.8 60644.8 -0435.2  
1415 9.1 60646.8 -0413.6  
1416 9.5 60657.4 -0454.4

1417 9.4 60702.7 -0415.1  
1418 9.5 60703.2 -0458.5  
1419 9.5 60703.5 -0452.0  
1420 9.1 60713.2 -0454.7  
1421 6.0 60726.2 -0431.7  
1422 7.5 60733.0 -0424.4  
1423 8.5 60733.9 -0407.1  
1424 9.8 60752.4 -0408.4  
1425 9.5 60755.6 -0420.4  
1426 8.8 60756.2 -0434.3

1427 9.2 60801.7 -0434.0  
1428 9.8 60804.3 -0447.7  
1429 9.5 60816.3 -0402.1  
1430 9.7 60820.0 -0446.7  
1431 6.6 60821.2 -0451.9  
1432 9.6 60829.8 -0451.7  
1433 9.8 60843.2 -0410.1  
1434 9.6 60844.4 -0456.4  
1435 9.0 60857.1 -0426.8  
1436 9.5 60857.6 -0428.3

1437 9.5 60905.5 -0420.0  
1438 9.8 60921.8 -0441.7  
1439 9.8 60930.6 -0424.7  
1440 9.5 60952.5 -0456.8  
1441 9.5 61003.4 -0448.4  
1442 9.0 61003.3 -0436.6  
1443 9.2 61020.7 -0416.6  
1444 9.1 61030.9 -0416.6  
1445 7.2 61042.6 -0416.6  
1446 9.8 61102.7 -0417.5

1447 9.3 61108.2 -0414.4  
1448 9.0 61128.5 -0414.4  
1449 9.4 61128.7 -0414.5  
1450 9.3 61143.8 -0444.8  
1451 9.0 61156.4 -0446.0  
1452 9.3 61237.1 -0459.8  
1453 9.4 61242.8 -0422.8  
1454 9.7 61247.3 -0453.3  
1455 9.6 61258.2 -0407.6  
1456 10. 61252.9 -0451.1

1457 8.8 61255.2 -0427.2  
1458 9.8 61254.0 -0421.1  
1459 9.3 61255.7 -0412.6  
1460 9.1 61255.7 -0417.1  
1461 9.0 61315.3 -0411.7  
1462 9.5 61318.5 -0425.1  
1463 9.5 61319.0 -0451.4  
1464 9.8 61325.8 -0426.0  
1465 10. 61329.9 -0416.8  
1466 10. 61322.1 -0419.2

1467 7.3 61339.7 -0431.5  
1468 9.3 61345.0 -0457.0  
1469 9.2 61357.0 -0458.5  
1470 8.0 61400.6 -0416.9  
1471 9.4 61440.6 -0427.7  
1472 9.8 61443.2 -0429.7  
1473 9.1 61448.0 -0421.7  
1474 9.5 61452.5 -0421.9  
1475 9.6 61467.9 -0405.2  
1476 8.0 61500.4 -0441.5

1477 9.5 61520.1 -0422.8  
1478 9.7 61521.5 -0406.0  
1479 8.6 61523.4 -0447.3  
1480 8.7 61540.1 -0453.7  
1481 8.5 61547.5 -0407.1  
1482 9.5 61551.4 -0431.9  
1483 9.5 61609.6 -0452.1  
1484 7.0 61612.8 -0436.8  
1485 9.7 61621.7 -0456.6  
1486 9.5 61625.3 -0454.4



-04 1487 6h16m

1487 9.5 61634.4 -0409.0  
 1488 9.5 61635.7 -0430.7  
 1489 9.8 61640.7 -0434.5  
 1490 8.5 61643.6 -0439.0  
 1491 9.2 61645.5 -0444.1  
 1492 9.8 61710.6 -0413.2  
 1493 9.8 61719.4 -0433.4  
 1494 9.0 61721.4 -0423.0  
 1495 10. 61734.2 -0453.0  
 1496 9.7 61741.3 -0450.9

1497 9.5 61750.9 -0435.3  
 1498 8.9 61754.6 -0421.6  
 1499 9.2 61758.0 -0447.1  
 1500 9.4 61806.9 -0444.5  
 1501 8.0 61829.4 -0445.0  
 1502 9.3 61835.5 -0451.9  
 1503 9.2 61852.0 -0420.2  
 1504 8.5 61857.7 -0433.1  
 1505 9.2 61903.6 -0420.8  
 1506 9.5 61905.7 -0441.0

1507 9.1 61907.1 -0427.8  
 1508 9.5 61914.1 -0426.3  
 1509 9.6 61922.7 -0458.1  
 1510 7.0 61924.2 -0430.5  
 1511 9.5 61924.8 -0400.9  
 1512 8.0 61948.0 -0422.5  
 1513 8.7 61948.4 -0432.8  
 1514 7.2 61950.5 -0416.4  
 1515 9.5 61951.9 -0405.7  
 1516 9.1 61957.6 -0427.6

1517 9.0 62000.5 -0441.7  
 1518 9.8 62005.8 -0411.6  
 1519 9.6 62012.5 -0451.4  
 1520 10. 62025.0 -0415.7  
 1521 10. 62035.6 -0415.5  
 1522 8.5 62038.1 -0444.4  
 1523 8.3 62038.5 -0451.0  
 1524 8.6 62042.2 -0416.9  
 1525 9.7 62042.6 -0441.2  
 1526 5.4 62048.3 -0440.1

1527 8.8 62049.7 -0456.2  
 1528 8.9 62050.2 -0442.7  
 1529 9.3 62054.6 -0439.9  
 1530 8.4 62101.3 -0448.6  
 1531 9.4 62102.3 -0426.5  
 1532 9.7 62104.9 -0431.1  
 1533 9.6 62107.6 -0422.3  
 1534 9.0 62111.6 -0422.1  
 1535 8.9 62114.4 -0456.7  
 1536 8.5 62123.0 -0429.2

1537 9.1 62136.7 -0415.0  
 1538 9.5 62209.6 -0425.2  
 1539 9.8 62213.0 -0403.1  
 1540 9.6 62240.1 -0426.7  
 1541 9.7 62243.5 -0441.0  
 1542 9.4 62247.1 -0412.8  
 1543 9.8 62248.1 -0415.0  
 1544 9.4 62249.8 -0433.2  
 1545 9.2 62259.2 -0410.1  
 1546 8.3 62317.8 -0435.7

1547 9.0 62326.1 -0439.2  
 1548 9.3 62343.0 -0407.8  
 1549 9.0 62346.8 -0411.6  
 1550 9.5 62402.4 -0439.0  
 1551 9.0 62409.9 -0410.6  
 1552 9.1 62410.0 -0456.8  
 1553 9.5 62422.1 -0428.9  
 1554 9.0 62436.3 -0407.6  
 1555 9.6 62442.1 -0406.9  
 1556 9.5 62514.2 -0434.7

1557 9.7 62530.5 -0412.9  
 1558 8.8 62531.2 -0420.1  
 1559 9.5 62535.4 -0443.9  
 1560 9.4 62543.5 -0401.9  
 1561 9.5 62553.1 -0459.2  
 1562 9.3 62628.4 -0445.2  
 1563 9.8 62644.3 -0442.5  
 1564 9.8 62645.3 -0419.5  
 1565 9.8 62650.1 -0441.6  
 1566 8.5 62650.7 -0427.8

1567 8.5 62651.4 -0458.2  
 1568 8.5 62654.4 -0405.9  
 1569 7.4 62708.5 -0447.4  
 1570 9.5 62735.6 -0429.7  
 1571 8.4 62740.5 -0408.6  
 1572 9.2 62741.8 -0404.0  
 1573 9.5 62742.3 -0453.5  
 1574 8.0 62743.3 -0434.0  
 1575 9.4 62800.2 -0428.3  
 1576 7.3 62807.9 -0440.8

1577 10. 62816.8 -0411.7  
 1578 9.8 62817.7 -0458.6  
 1579 9.2 62836.4 -0443.7  
 1580 9.2 62855.8 -0436.4  
 1581 9.0 62916.3 -0451.3  
 1582 9.5 62916.3 -0435.9  
 1583 9.5 62928.6 -0454.7  
 1584 9.5 62933.0 -0414.3  
 1585 9.1 62946.9 -0443.8  
 1586 9.1 62947.4 -0419.2

1587 9.4 63001.7 -0430.8  
 1588 9.5 63011.0 -0451.5  
 1589 9.5 63021.8 -0409.9  
 1590 9.0 63036.7 -0416.1  
 1591 9.1 63037.6 -0454.2  
 1592 9.3 63042.9 -0417.2  
 1593 9.0 63101.8 -0434.6  
 1594 9.8 63107.2 -0459.5  
 1595 9.0 63112.0 -0408.0  
 1596 9.0 63119.0 -0448.3

1597 8.5 63124.8 -0410.0  
 1598 9.8 63202.4 -0456.8  
 1599 9.8 63202.9 -0414.7  
 1600 9.8 63206.9 -0438.4  
 1601 9.2 63207.2 -0409.7  
 1602 9.8 63208.5 -0406.0  
 1603 9.7 63222.0 -0412.1  
 1604 9.0 63227.6 -0426.5  
 1605 9.5 63229.3 -0423.6  
 1606 9.5 63250.2 -0428.2

1607 8.5 63251.5 -0434.2  
 1608 9.5 63257.0 -0418.1  
 1609 9.0 63257.4 -0428.4  
 1610 7.7 63304.4 -0419.8  
 1611 9.0 63306.5 -0434.9  
 1612 10. 63312.9 -0456.8  
 1613 9.2 63313.9 -0451.8  
 1614 9.8 63316.9 -0412.5  
 1615 9.2 63330.7 -0428.2  
 1616 8.8 63345.1 -0426.1

1617 9.5 63414.6 -0427.9  
 1618 9.5 63430.7 -0444.4  
 1619 9.4 63431.7 -0409.6  
 1620 8.9 63451.8 -0437.8  
 1621 9.5 63454.9 -0423.0  
 1622 9.6 63457.8 -0400.5  
 1623 9.6 63509.1 -0418.5  
 1624 9.2 63511.2 -0414.5  
 1625 9.6 63518.0 -0401.2  
 1626 9.4 63532.4 -0449.8

1627 7.0 63536.1 -0400.2  
 1628 9.7 63549.9 -0427.9  
 1629 9.5 63551.3 -0421.8  
 1630 9.6 63552.5 -0423.8  
 1631 9.5 63555.0 -0435.3  
 1632 9.0 63557.4 -0438.1  
 1633 9.8 63600.9 -0401.1  
 1634 9.9 63603.3 -0416.0  
 1635 9.1 63617.6 -0416.9  
 1636 9.3 63627.3 -0417.5

1637 9.5 63629.1 -0441.6  
 1638 9.2 63650.2 -0455.7  
 1639 9.6 63656.6 -0428.8  
 1640 9.1 63657.5 -0415.1  
 1641 8.7 63710.8 -0427.6  
 1642 9.0 63723.0 -0420.7  
 1643 9.4 63724.9 -0441.5  
 1644 8.8 63733.9 -0415.2  
 1645 9.5 63751.6 -0416.5  
 1646 9.8 63808.6 -0456.3

1647 9.5 63814.0 -0435.4  
 1648 9.5 63831.2 -0445.9  
 1649 9.7 63841.6 -0418.3  
 1650 9.7 63904.5 -0455.7  
 1651 9.7 63913.8 -0403.5  
 1652 9.3 63917.5 -0416.6  
 1653 10. 63932.1 -0404.7  
 1654 10. 63939.5 -0414.7  
 1655 10. 63939.6 -0455.7  
 1656 9.5 63956.8 -0404.4

1657 9.5 63959.9 -0446.8  
 1658 9.4 63959.4 -0432.7  
 1659 9.3 64025.3 -0446.1  
 1660 9.6 64040.3 -0446.1  
 1661 10. 64043.4 -0435.9  
 1662 9.9 64045.4 -0436.1  
 1663 9.9 64047.6 -0433.0  
 1664 8.0 64048.4 -0405.8  
 1665 7.9 64049.0 -0459.6  
 1666 9.1 64050.3 -0402.0

1667 8.1 64113.4 -0432.7  
 1668 8.5 64114.5 -0413.6  
 1669 8.8 64116.1 -0439.8  
 1670 10. 64119.1 -0426.9  
 1671 9.0 64119.7 -0444.1  
 1672 9.3 64121.1 -0429.3  
 1673 9.5 64124.5 -0454.5  
 1674 9.5 64135.4 -0401.0  
 1675 9.5 64147.5 -0426.0  
 1676 8.7 64148.0 -0431.6

1677 9.5 64148.9 -0452.5  
 1678 9.0 64154.0 -0419.7  
 1679 9.8 64241.5 -0412.3  
 1680 9.3 64243.9 -0453.2  
 1681 9.5 64254.1 -0423.8  
 1682 9.5 64255.2 -0435.5  
 1683 9.0 64305.8 -0458.9  
 1684 5.8 64318.9 -0404.7  
 1685 7.2 64331.4 -0406.2  
 1686 9.5 64340.5 -0412.9

1687 9.1 64343.7 -0447.0  
 1688 8.2 64346.6 -0406.0  
 1689 9.6 64354.7 -0454.6  
 1690 9.5 64355.8 -0449.5  
 1691 8.7 64357.5 -0420.0  
 1692 9.5 64409.7 -0444.8  
 1693 9.5 64409.9 -0432.7  
 1694 9.5 64416.4 -0432.9  
 1695 9.0 64429.8 -0401.2  
 1696 9.5 64434.5 -0424.6

1697 9.5 64445.3 -0401.4  
 1698 9.5 64448.7 -0417.2  
 1699 9.5 64501.4 -0404.0  
 1700 9.3 64508.8 -0437.9  
 1701 9.5 64513.1 -0405.9  
 1702 9.5 64522.3 -0427.6  
 1703 9.0 64523.0 -0412.1  
 1704 9.8 64531.6 -0453.7  
 1705 9.5 64535.3 -0426.7  
 1706 9.2 64539.0 -0436.7

1707 8.8 64554.7 -0434.0  
 1708 9.0 64600.7 -0424.2  
 1709 10. 64608.4 -0403.6  
 1710 9.5 64608.5 -0407.7  
 1711 9.4 64615.4 -0407.7  
 1712 9.8 64641.6 -0433.2  
 1713 8.8 64644.0 -0412.8  
 1714 8.3 64645.4 -0413.2  
 1715 8.9 64645.9 -0442.8  
 1716 9.3 64651.1 -0410.4

1717 9.7 64654.7 -0439.6  
 1718 9.0 64706.4 -0405.7  
 1719 9.0 64708.2 -0443.9  
 1720 9.5 64709.1 -0428.7  
 1721 9.2 64722.2 -0431.8  
 1722 9.8 64725.5 -0413.6  
 1723 9.1 64728.6 -0411.1  
 1724 9.4 64732.1 -0441.4  
 1725 9.5 64744.2 -0443.8  
 1726 9.5 64758.6 -0455.8

1727 9.2 64807.5 -0426.5  
 1728 9.6 64814.0 -0444.5  
 1729 9.5 64820.0 -0427.0  
 1730 9.8 64825.0 -0451.2  
 1731 8.7 64835.3 -0451.8  
 1732 10. 64838.0 -0451.3  
 1733 9.4 64843.2 -0415.1  
 1734 9.4 64844.8 -0430.0  
 1735 9.5 64845.7 -0433.0  
 1736 9.2 64849.2 -0456.3

1737 9.8 64854.9 -0404.7  
 1738 10. 64903.6 -0400.2  
 1739 9.6 64912.9 -0458.8  
 1740 9.1 64914.1 -0411.7  
 1741 9.2 64944.4 -0404.8  
 1742 9.8 65002.4 -0459.6  
 1743 9.9 65002.9 -0406.6  
 1744 9.0 65004.5 -0411.1  
 1745 8.5 65008.4 -0400.8  
 1746 9.3 65015.2 -0453.7

1747 9.5 65018.3 -0429.0  
 1748 10. 65049.6 -0418.7  
 1749 9.1 65052.2 -0443.7  
 1750 8.8 65102.5 -0452.7  
 1751 9.0 65108.3 -0427.7  
 1752 8.0 65112.7 -0420.5  
 1753 9.5 65117.7 -0445.3  
 1754 9.5 65125.1 -0440.4  
 1755 9.7 65125.2 -0407.8  
 1756 8.2 65125.5 -0420.4

1757 9.8 65126.2 -0412.8  
 1758 9.5 65128.4 -0409.3  
 1759 9.0 65136.8 -0421.7  
 1760 9.3 65142.3 -0429.0  
 1761 9.0 65151.1 -0411.8  
 1762 9.5 65203.5 -0408.5  
 1763 9.0 65206.2 -0425.4  
 1764 9.5 65207.8 -0450.9  
 1765 9.5 65210.0 -0428.6  
 1766 9.0 65224.9 -0436.7

1767 9.0 65230.4 -0401.2  
 1768 10. 65237.0 -0410.3  
 1769 9.0 65240.7 -0425.9  
 1770 9.5 65243.9 -0452.5  
 1771 9.8 65254.0 -0437.5  
 1772 8.8 65303.7 -0424.7  
 1773 10. 65307.8 -0413.5  
 1774 9.0 65341.2 -0445.0  
 1775 9.1 65342.9 -0418.8  
 1776 9.8 65345.9 -0415.2

1777 9.5 65356.8 -0457.5  
 1778 9.5 65358.7 -0424.9  
 1779 5.0 65402.9 -0453.1  
 1780 9.4 65445.3 -0419.2  
 1781 9.9 65446.1 -0400.9  
 1782 9.5 65450.7 -0433.6  
 1783 9.8 65505.6 -0410.5  
 1784 9.0 65512.2 -0456.3  
 1785 8.5 65523.3 -0425.6  
 1786 9.7 65531.3 -0416.9

1787 9.8 65536.8 -0417.8  
 1788 5.0 65542.9 -0402.0  
 1789 9.8 65550.2 -0409.6  
 1790 9.0 65555.4 -0434.4  
 1791 9.4 65559.0 -0407.4  
 1792 9.6 65600.7 -0403.1  
 1793 8.3 65614.9 -0403.3  
 1794 9.0 65618.7 -0436.0  
 1795 9.6 65645.6 -0426.7  
 1796 9.9 65646.6 -0436.8

1797 8.3 65649.7 -0425.0  
 1798 9.2 65704.9 -0419.0  
 1799 9.0 65723.6 -0417.6  
 1800 9.1 65725.5 -0411.7  
 1801 9.5 65726.8 -0401.9  
 1802 9.0 65730.2 -0445.2  
 1803 9.3 65740.0 -0412.9  
 1804 9.4 65745.6 -0416.3  
 1805 9.8 65745.7 -0450.7  
 1806 9.0 65748.5 -0419.6

1807 9.3 65750.4 -0451.6  
 1808 9.7 65751.2 -0458.8  
 1809 9.4 65759.8 -0439.0  
 1810 9.2 65823.4 -0420.0  
 1811 9.8 65836.4 -0439.3  
 1812 10. 65837.8 -0434.2  
 1813 9.8 65840.5 -0456.8  
 1814 9.8 65844.1 -0457.0  
 1815 9.2 65844.9 -0419.4  
 1816 9.8 65845.9 -0403.5

1817 9.4 65848.2 -0412.0  
 1818 9.4 65857.8 -0448.4  
 1819 9.5 65910.5 -0413.9  
 1820 8.7 65922.2 -0443.2  
 1821 9.4 65923.5 -0415.2  
 1822 9.3 65926.2 -0424.5  
 1823 9.8 65935.5 -0449.1  
 1824 9.8 65937.7 -0440.6  
 1825 10. 65944.1 -0452.0  
 1826 9.4 65953.3 -0425.6

1827 9.0 70003.3 -0447.6  
 1828 9.5 70033.5 -0419.2  
 1829 9.4 70044.3 -0459.3  
 1830 7.8 70046.3 -0427.1  
 1831 9.8 70056.3 -0417.8  
 1832 9.3 70107.8 -0447.6  
 1833 9.7 70120.9 -0457.2  
 1834 9.5 70128.9 -0458.3  
 1835 9.8 70130.4 -0404.4  
 1836 9.2 70134.4 -0453.5

1837 9.8 70142.1 -0422.5  
 1838 9.0 70159.7 -0442.1  
 1839 9.6 70205.2 -0446.0  
 1840 5.5 70301.3 -0401.0  
 1841 8.2 70313.8 -0408.9  
 1842 8.5 70328.8 -0429.1  
 1843 8.6 70346.2 -0412.9  
 1844 9.4 70350.3 -0439.1  
 1845 7.9 70359.9 -0428.3  
 1846 8.8 70408.6 -0440.5



-04 1847 7h04m

1847 9.5 70417.3 -0451.6  
1848 10. 70418.5 -0457.3  
1849 9.5 70421.9 -0433.9  
1850 9.2 70424.7 -0441.4  
1851 9.0 70429.6 -0449.1  
1852 9.0 70430.8 -0426.1  
1853 9.2 70434.2 -0442.5  
1854 10. 70448.8 -0427.1  
1855 9.6 70503.3 -0438.2  
1856 9.5 70504.0 -0455.6  
  
1857 9.5 70511.3 -0415.2  
1858 9.5 70518.3 -0449.9  
1859 9.5 70540.5 -0437.5  
1860 9.0 70631.4 -0408.3  
1861 9.5 70631.9 -0457.3  
1862 7.8 70634.5 -0454.8  
1863 9.5 70644.3 -0430.5  
1864 9.5 70646.7 -0442.5  
1865 9.3 70651.7 -0420.8  
1866 9.2 70658.8 -0448.4  
  
1867 9.5 70710.1 -0442.7  
1868 9.3 70711.9 -0414.1  
1869 9.5 70737.0 -0438.6  
1870 9.4 70739.5 -0426.0  
1871 9.8 70754.7 -0422.2  
1872 9.1 70802.1 -0420.5  
1873 8.2 70812.3 -0448.7  
1874 9.5 70817.9 -0408.1  
1875 9.8 70819.4 -0402.5  
1876 9.5 70828.4 -0412.6  
  
1877 9.4 70831.3 -0426.5  
1878 9.2 70842.8 -0411.3  
1879 9.8 70846.5 -0456.4  
1880 10. 70857.4 -0408.9  
1881 9.8 70818.6 -0458.6  
1882 8.0 70924.2 -0446.8  
1883 9.3 70936.4 -0433.8  
1884 9.1 70941.9 -0416.7  
1885 8.5 70953.5 -0407.5  
1886 8.7 71002.6 -0432.4  
  
1887 9.5 71014.9 -0431.2  
1888 9.0 71022.2 -0454.7  
1889 9.5 71044.3 -0419.0  
1890 9.7 71103.2 -0442.4  
1891 9.3 71103.9 -0456.9  
1892 9.5 71108.9 -0448.1  
1893 8.7 71110.9 -0403.1  
1894 9.5 71117.0 -0408.1  
1895 9.5 71119.1 -0419.1  
1896 9.5 71119.4 -0411.1  
  
1897 9.5 71135.9 -0422.1  
1898 9.7 71142.9 -0400.1  
1899 9.4 71145.9 -0432.1  
1900 8.6 71147.3 -0458.1  
1901 10. 71155.1 -0407.1  
1902 10. 71210.9 -0434.2  
1903 9.8 71224.4 -0423.5  
1904 9.0 71226.1 -0411.3  
1905 9.4 71229.0 -0435.6  
1906 9.5 71229.7 -0404.9  
  
1907 7.8 71246.1 -0419.3  
1908 7.3 71255.5 -0443.6  
1909 9.3 71301.0 -0403.2  
1910 9.4 71303.6 -0419.5  
1911 9.1 71311.5 -0454.5  
1912 9.0 71313.9 -0440.9  
1913 9.2 71317.4 -0449.4  
1914 9.5 71329.0 -0435.6  
1915 8.8 71338.9 -0459.6  
1916 9.5 71352.0 -0426.5  
  
1917 9.0 71352.6 -0419.0  
1918 8.8 71355.3 -0458.1  
1919 9.5 71409.3 -0421.5  
1920 9.0 71413.8 -0415.5  
1921 9.3 71414.4 -0459.7  
1922 9.1 71431.9 -0421.4  
1923 9.7 71511.9 -0425.0  
1924 9.2 71516.0 -0457.3  
1925 9.2 71533.9 -0459.8  
1926 8.5 71537.3 -0457.0  
  
1927 8.9 71609.7 -0409.4  
1928 9.5 71617.8 -0418.9  
1929 9.4 71627.5 -0455.3  
1930 8.5 71642.9 -0459.6  
1931 9.3 71649.9 -0429.2  
1932 9.7 71711.9 -0424.3  
1933 8.8 71716.8 -0419.9  
1934 9.7 71720.9 -0422.7  
1935 9.5 71721.2 -0421.6  
1936 9.6 71728.0 -0403.3

1937 9.5 71733.0 -0452.6  
1938 9.4 71727.0 -0435.2  
1939 8.5 71746.9 -0446.4  
1940 9.3 71805.4 -0420.1  
1941 9.0 71811.5 -0407.5  
1942 9.3 71820.9 -0404.8  
1943 7.6 71851.9 -0415.1  
1944 9.2 71853.0 -0414.1  
1945 10. 71866.3 -0404.5  
1946 9.6 71996.5 -0401.6  
  
1947 9.0 71923.5 -0408.3  
1948 9.5 71925.7 -0423.2  
1949 8.1 71926.2 -0402.1  
1950 8.5 71938.0 -0455.8  
1951 10. 71954.1 -0417.4  
1952 8.4 71955.8 -0440.5  
1953 9.4 72003.9 -0424.8  
1954 9.2 72004.3 -0445.0  
1955 8.6 72005.6 -0403.2  
1956 9.2 72015.7 -0434.3  
  
1957 9.4 72024.2 -0428.1  
1958 8.8 72031.0 -0410.4  
1959 9.5 72058.3 -0452.8  
1960 9.8 72103.7 -0403.6  
1961 9.8 72132.2 -0404.5  
1962 9.0 72138.2 -0434.7  
1963 9.5 72151.2 -0409.7  
1964 9.1 72152.3 -0447.8  
1965 7.8 72203.6 -0414.9  
1966 9.3 72215.0 -0418.0  
  
1967 8.7 72223.7 -0443.5  
1968 9.8 72228.8 -0407.5  
1969 9.6 72231.3 -0409.9  
1970 8.5 72237.1 -0454.1  
1971 9.4 72245.3 -0454.3  
1972 9.5 72249.2 -0428.1  
1973 9.0 72251.2 -0433.3  
1974 9.5 72256.0 -0459.6  
1975 9.0 72258.2 -0434.4  
1976 8.6 72260.7 -0417.1  
  
1977 9.3 72279.7 -0409.2  
1978 9.8 72285.2 -0434.4  
1979 6.9 72284.7 -0455.5  
1980 9.1 72286.6 -0409.7  
1981 9.2 72284.7 -0429.5  
1982 9.5 72285.3 -0443.0  
1983 9.5 72288.6 -0424.4  
1984 8.0 72288.2 -0422.8  
1985 9.5 72286.2 -0437.9  
1986 9.0 72244.7 -0403.5  
  
1987 9.0 72295.2 -0404.3  
1988 8.3 72295.8 -0444.1  
1989 9.2 72293.2 -0459.4  
1990 9.5 72293.8 -0457.9  
1991 9.3 72291.6 -0413.6  
1992 9.5 72293.3 -0453.1  
1993 9.8 72291.9 -0404.3  
1994 9.5 72293.2 -0405.1  
1995 9.3 72294.6 -0458.3  
1996 8.5 72293.3 -0409.9  
  
1997 9.8 72295.5 -0420.3  
1998 9.5 72292.9 -0454.4  
1999 8.5 72293.2 -0427.8  
2000 9.8 72293.9 -0419.5  
2001 9.0 72298.2 -0427.8  
2002 9.2 72291.2 -0414.9  
2003 9.6 72291.4 -0454.6  
2004 9.5 72272.7 -0401.9  
2005 9.4 72234.7 -0427.2  
2006 9.8 72235.9 -0418.8  
  
2007 9.3 72246.3 -0444.1  
2008 9.2 72248.7 -0423.4  
2009 9.2 72254.7 -0430.2  
2010 8.5 72259.8 -0405.4  
2011 9.0 72280.8 -0418.3  
2012 9.5 72311.0 -0412.6  
2013 8.9 72315.4 -0452.1  
2014 9.8 72356.3 -0426.6  
2015 9.5 72319.2 -0420.6  
2016 9.1 72327.4 -0401.2  
  
2017 9.0 72340.5 -0431.8  
2018 9.1 72340.7 -0412.9  
2019 9.4 72344.6 -0416.8  
2020 9.7 72303.3 -0449.9  
2021 9.7 72301.7 -0457.9  
2022 9.1 72302.3 -0440.3  
2023 9.5 72306.7 -0418.5  
2024 9.8 72301.2 -0431.9  
2025 9.1 72306.8 -0431.5  
2026 9.5 72302.3 -0403.1

2027 8.3 72307.0 -0440.0  
2028 9.0 72312.8 -0439.7  
2029 9.8 72313.9 -0405.5  
2030 9.6 72319.9 -0424.8  
2031 8.4 72342.0 -0428.9  
2032 9.4 72303.0 -0436.3  
2033 9.6 72310.2 -0401.3  
2034 9.6 72311.6 -0417.4  
2035 9.5 72316.3 -0402.2  
2036 10. 72316.7 -0416.3  
  
2037 9.1 72319.8 -0448.4  
2038 9.5 72327.9 -0430.6  
2039 9.6 72329.2 -0449.8  
2040 9.0 72343.7 -0458.2  
2041 9.7 72345.0 -0410.8  
2042 8.5 72345.5 -0428.4  
2043 9.2 72350.3 -0412.4  
2044 9.5 72351.9 -0454.4  
2045 9.0 72346.7 -0427.4  
2046 9.5 72348.5 -0412.7  
  
2047 9.0 72353.8 -0436.1  
2048 9.3 72325.2 -0420.1  
2049 9.5 72331.2 -0414.4  
2050 9.5 72340.8 -0445.2  
2051 9.5 72345.3 -0455.9  
2052 9.4 72352.3 -0404.8  
2053 9.4 72351.8 -0455.6  
2054 9.8 72351.7 -0426.7  
2055 9.5 72325.7 -0435.2  
2056 9.3 72324.1 -0414.3  
  
2057 9.3 72356.7 -0418.4  
2058 9.0 72360.1 -0438.2  
2059 9.5 72360.1 -0431.6  
2060 9.0 72360.3 -0450.1  
2061 9.0 72364.2 -0458.3  
2062 7.1 72362.2 -0410.3  
2063 6.9 72362.8 -0421.8  
2064 8.6 72368.9 -0415.6  
2065 9.4 72364.7 -0418.5  
2066 9.6 72368.6 -0428.5  
  
2067 8.5 72370.1 -0409.8  
2068 9.3 72370.0 -0415.0  
2069 8.0 72370.6 -0443.1  
2070 9.2 72371.4 -0420.7  
2071 9.5 72371.6 -0442.5  
2072 9.7 72371.7 -0446.4  
2073 9.7 72373.0 -0419.5  
2074 9.5 72374.9 -0457.6  
2075 7.2 72374.7 -0406.5  
2076 9.4 72382.8 -0432.0  
  
2077 8.7 72380.9 -0457.5  
2078 9.1 72382.3 -0403.1  
2079 9.4 72381.5 -0415.2  
2080 9.4 72390.8 -0457.0  
2081 9.5 72391.8 -0434.5  
2082 9.8 72391.3 -0401.9  
2083 9.5 72393.8 -0456.9  
2084 10. 72395.5 -0411.1  
2085 9.0 72394.2 -0433.7  
2086 9.0 72394.3 -0424.9  
  
2087 9.5 72400.9 -0459.1  
2088 9.5 72401.8 -0443.2  
2089 9.2 72402.0 -0409.1  
2090 9.7 72402.5 -0458.1  
2091 9.5 72406.7 -0412.0  
2092 8.5 72411.2 -0405.6  
2093 9.5 72412.6 -0419.2  
2094 9.8 72414.3 -0402.7  
2095 9.1 72414.9 -0453.6  
2096 9.0 72415.0 -0440.1  
  
2097 7.9 72414.9 -0412.9  
2098 9.1 72404.8 -0437.4  
2099 9.3 72420.0 -0413.1  
2100 8.9 72422.0 -0413.1  
2101 9.2 72423.1 -0403.4  
2102 9.0 72426.8 -0410.8  
2103 9.2 72430.8 -0415.7  
2104 8.5 72426.3 -0443.9  
2105 9.2 72429.1 -0443.9  
2106 9.2 72435.0 -0418.6  
  
2107 9.7 72434.9 -0408.0  
2108 9.2 72435.1 -0415.7  
2109 9.5 72435.8 -0441.0  
2110 8.9 72437.5 -0449.9  
2111 9.2 72437.8 -0442.5  
2112 10. 72441.0 -0410.5  
2113 9.3 72441.7 -0420.5  
2114 10. 72441.8 -0402.4  
2115 10. 72442.5 -0410.2  
2116 9.5 72442.0 -0412.0

2117 9.4 72441.2 -0431.4  
2118 9.3 72441.6 -0418.0  
2119 9.5 72445.5 -0400.4  
2120 9.4 72451.2 -0413.9  
2121 9.4 72451.8 -0445.1  
2122 9.5 72456.3 -0439.8  
2123 9.1 72453.0 -0426.3  
2124 8.5 72453.6 -0420.7  
2125 9.5 72453.6 -0412.9  
2126 9.0 72452.7 -0433.0  
  
2127 9.5 72460.2 -0425.6  
2128 9.5 72462.3 -0403.5  
2129 9.0 72464.3 -0426.0  
2130 9.3 72463.8 -0444.5  
2131 9.4 72463.8 -0443.4  
2132 9.1 72463.2 -0419.6  
2133 8.5 72465.7 -0420.1  
2134 9.1 72470.3 -0403.6  
2135 8.8 72471.2 -0409.0  
2136 9.8 72473.1 -0440.6  
  
2137 9.8 72473.2 -0455.5  
2138 9.8 72473.9 -0453.2  
2139 9.8 72474.2 -0442.8  
2140 9.8 72478.9 -0407.4  
2141 8.0 72475.1 -0411.7  
2142 9.3 72481.3 -0450.7  
2143 8.3 72481.7 -0417.9  
2144 9.1 72482.8 -0433.5  
2145 9.0 72482.5 -0438.4  
2146 9.7 72483.5 -0452.8  
  
2147 9.4 72484.7 -0405.6  
2148 9.0 72484.7 -0459.4  
2149 9.1 72498.1 -0448.2  
2150 9.0 72493.8 -0414.6  
2151 9.1 72493.9 -0414.3  
2152 9.5 72493.7 -0438.0  
2153 9.5 72493.9 -0418.0  
2154 9.3 72502.2 -0420.2  
2155 9.5 72507.8 -0400.4  
2156 9.5 72505.4 -0411.9  
  
2157 9.4 72510.4 -0455.1  
2158 8.4 72513.6 -0433.1  
2159 8.9 72515.8 -0451.9  
2160 8.5 72512.0 -0422.2  
2161 9.2 72513.2 -0417.6  
2162 7.9 72522.8 -0447.9  
2163 9.5 72525.3 -0436.9  
2164 9.4 72528.9 -0426.0  
2165 9.1 72525.2 -0420.0  
2166 7.0 72516.8 -0429.6  
  
2167 9.4 72522.8 -0435.8  
2168 8.0 72525.6 -0411.9  
2169 8.3 72529.8 -0443.4  
2170 8.0 72533.7 -0407.7  
2171 9.1 72534.6 -0432.9  
2172 8.5 72536.1 -0440.7  
2173 7.9 72536.8 -0422.0  
2174 8.8 72537.3 -0433.6  
2175 8.6 72540.7 -0414.5  
2176 8.7 72541.3 -0422.3  
  
2177 9.7 72541.1 -0405.4  
2178 9.3 72542.8 -0457.1  
2179 9.8 72545.0 -0407.0  
2180 8.5 72540.2 -0423.6  
2181 9.5 72542.6 -0456.8  
2182 9.1 72544.4 -0417.7  
2183 9.5 72545.7 -0414.7  
2184 9.5 72549.3 -0425.9  
2185 9.8 72548.4 -0400.2  
2186 9.4 72551.5 -0404.4  
  
2187 7.5 72552.7 -0425.4  
2188 9.8 72553.9 -0447.3  
2189 9.8 72553.3 -0459.1  
2190 9.1 72540.4 -0410.5  
2191 9.4 72548.9 -0427.4  
2192 9.5 72561.0 -0421.0  
2193 9.3 72561.8 -0426.3  
2194 9.4 72562.3 -0435.1  
2195 9.8 72563.3 -0401.1  
2196 9.4 72561.3 -0438.8  
  
2197 7.5 72565.7 -0425.4  
2198 10. 72571.5 -0401.9  
2199 9.3 72571.8 -0425.6  
2200 9.7 72572.4 -0457.9  
2201 8.3 72572.4 -0451.8  
2202 9.5 72573.0 -0435.5  
2203 9.5 72573.8 -0455.5  
2204 9.2 72573.9 -0459.3  
2205 9.3 72574.7 -0409.7  
2206 9.5 72573.6 -0410.0

-04 2206 7h57m



-04 2207 7h57m

2207 9.8 75754.9 -0401.1  
2208 8.5 75802.0 -0407.0  
2209 9.0 75808.9 -0454.2  
2210 8.7 75822.0 -0438.3  
2211 9.5 75822.1 -0421.0  
2212 8.3 75828.0 -0414.9  
2213 9.5 75849.5 -0402.6  
2214 8.8 75904.0 -0401.9  
2215 9.4 75908.9 -0456.1  
2216 9.1 75912.7 -0424.7  
  
2217 9.5 75915.8 -0429.4  
2218 8.8 75921.0 -0434.0  
2219 9.1 75923.8 -0429.8  
2220 8.2 75925.5 -0455.2  
2221 9.2 75942.4 -0452.6  
2222 9.5 75946.3 -0428.9  
2223 9.3 75955.2 -0425.8  
2224 9.4 75957.3 -0429.1  
2225 8.7 80020.5 -0404.4  
2226 10. 80039.3 -0406.4  
  
2227 10. 80042.2 -0413.3  
2228 9.2 80044.3 -0423.3  
2229 8.6 80046.6 -0434.4  
2230 9.4 80105.8 -0445.9  
2231 9.4 80117.7 -0424.6  
2232 9.5 80120.2 -0418.9  
2233 9.4 80128.4 -0418.2  
2234 9.0 80147.9 -0430.4  
2235 7.5 80202.6 -0407.9  
2236 9.3 80218.5 -0406.6  
  
2237 9.5 80220.8 -0455.4  
2238 9.0 80237.1 -0446.4  
2239 9.1 80243.0 -0411.4  
2240 9.2 80315.3 -0402.0  
2241 9.2 80339.2 -0438.1  
2242 8.3 80343.0 -0429.4  
2243 9.1 80412.6 -0436.6  
2244 9.6 80423.6 -0445.6  
2245 9.2 80432.4 -0453.3  
2246 9.6 80434.4 -0440.9  
  
2247 9.1 80453.5 -0454.6  
2248 9.5 80454.2 -0465.2  
2249 9.8 80506.4 -0454.8  
2250 9.7 80512.7 -0449.7  
2251 9.2 80513.8 -0451.4  
2252 9.4 80514.8 -0403.4  
2253 9.4 80523.3 -0434.9  
2254 9.5 80536.1 -0408.2  
2255 9.5 80613.7 -0408.4  
2256 9.2 80626.4 -0440.4  
  
2257 9.1 80634.0 -0448.4  
2258 9.8 80635.5 -0427.3  
2259 8.2 80644.3 -0413.2  
2260 9.5 90645.1 -0440.5  
2261 9.3 80646.9 -0441.9  
2262 9.4 80647.2 -0400.8  
2263 9.5 80648.7 -0457.4  
2264 9.4 80648.8 -0437.3  
2265 9.5 80655.0 -0453.1  
2266 9.0 80720.7 -0415.7  
  
2267 9.8 80726.6 -0452.9  
2268 9.8 80731.9 -0444.6  
2269 9.8 80801.0 -0446.2  
2270 9.1 80819.7 -0408.0  
2271 9.6 80822.3 -0435.7  
2272 8.8 80828.1 -0432.5  
2273 9.5 80838.3 -0405.4  
2274 10. 80845.7 -0410.8  
2275 8.9 80855.0 -0448.6  
2276 9.3 80856.3 -0410.9  
  
2277 9.8 80857.9 -0400.3  
2278 9.1 80900.1 -0405.1  
2279 9.8 80904.0 -0445.4  
2280 9.1 80904.5 -0434.7  
2281 9.5 80906.2 -0409.4  
2282 9.8 80929.1 -0451.7  
2283 9.8 80940.0 -0422.2  
2284 7.4 80946.5 -0458.5  
2285 9.0 80949.0 -0451.6  
2286 9.2 80951.4 -0445.4  
  
2287 9.2 81003.3 -0412.1  
2288 7.5 81005.4 -0455.5  
2289 10. 81008.4 -0417.0  
2290 10. 81009.6 -0405.8  
2291 8.8 81017.0 -0421.9  
2292 9.8 81031.2 -0431.2  
2293 8.8 81126.8 -0443.0  
2294 9.0 81130.7 -0456.4  
2295 9.8 81136.1 -0413.6  
2296 9.8 81151.8 -0432.1

2297 9.2 81200.4 -0415.1  
2298 9.5 81201.5 -0459.0  
2299 8.5 81202.7 -0405.2  
2300 9.1 81204.6 -0442.2  
2301 9.8 81233.6 -0408.2  
2302 9.1 81246.4 -0441.6  
2303 6.5 81305.6 -0452.2  
2304 9.0 81317.1 -0407.8  
2305 8.3 81324.5 -0421.8  
2306 8.3 81328.9 -0442.8  
  
2307 9.6 81339.4 -0421.4  
2308 9.1 81340.0 -0403.8  
2309 7.8 81340.9 -0424.7  
2310 8.7 81402.0 -0406.5  
2311 9.6 81414.5 -0447.4  
2312 9.5 81417.5 -0404.6  
2313 9.7 81429.1 -0414.5  
2314 10. 81431.7 -0457.0  
2315 9.0 81454.0 -0438.8  
2316 10. 81506.3 -0424.8  
  
2317 9.8 81538.5 -0447.1  
2318 9.0 81549.0 -0406.6  
2319 9.3 81554.6 -0410.0  
2320 8.9 81614.9 -0441.5  
2321 9.8 81619.5 -0447.1  
2322 9.8 81641.4 -0417.0  
2323 9.8 81647.6 -0453.5  
2324 8.8 81650.1 -0418.9  
2325 9.0 81707.7 -0403.4  
2326 9.8 81711.3 -0440.5  
  
2327 9.3 81714.8 -0414.8  
2328 6.5 81723.7 -0415.0  
2329 8.9 81737.5 -0425.6  
2330 9.4 81741.9 -0422.0  
2331 10. 81807.5 -0405.3  
2332 9.5 81809.0 -0406.9  
2333 9.4 81824.3 -0434.4  
2334 8.8 81845.6 -0425.4  
2335 9.5 81852.5 -0426.0  
2336 9.5 81854.9 -0411.0  
  
2337 8.5 81908.5 -0413.8  
2338 9.8 81922.4 -0420.9  
2339 9.2 81939.1 -0450.7  
2340 9.3 81940.9 -0444.0  
2341 9.0 81941.9 -0410.3  
2342 9.5 81956.7 -0402.6  
2343 9.3 81958.1 -0445.5  
2344 9.5 81959.1 -0431.2  
2345 9.3 82000.2 -0446.5  
2346 9.8 82015.0 -0426.3  
  
2347 7.5 82024.2 -0440.3  
2348 9.1 82026.9 -0413.0  
2349 10. 82033.7 -0456.6  
2350 8.8 82037.6 -0406.5  
2351 10. 82101.0 -0457.8  
2352 10. 82119.5 -0438.6  
2353 9.3 82120.9 -0434.7  
2354 9.2 82126.8 -0424.5  
2355 9.0 82128.0 -0404.6  
2356 10. 82132.0 -0439.0  
  
2357 9.4 82134.7 -0454.0  
2358 9.6 82153.0 -0405.1  
2359 9.8 82200.6 -0451.5  
2360 9.8 82207.7 -0451.1  
2361 9.4 82213.5 -0437.5  
2362 10. 82237.2 -0451.3  
2363 9.5 82244.7 -0451.7  
2364 9.4 82248.4 -0432.1  
2365 9.6 82253.0 -0435.3  
2366 9.9 82254.5 -0438.4  
  
2367 9.3 82328.0 -0404.0  
2368 9.4 82329.1 -0454.6  
2369 9.5 82340.6 -0442.9  
2370 9.4 82413.5 -0449.8  
2371 10. 82415.0 -0443.8  
2372 10. 82426.8 -0454.3  
2373 9.5 82427.9 -0430.2  
2374 9.8 82438.8 -0406.0  
2375 9.9 82443.3 -0422.8  
2376 8.8 82451.5 -0418.3  
  
2377 7.5 82506.4 -0437.1  
2378 9.5 82556.1 -0445.9  
2379 7.0 82559.0 -0443.9  
2380 8.0 82605.2 -0449.7  
2381 10. 82629.9 -0424.0  
2382 9.1 82638.8 -0428.0  
2383 8.3 82639.6 -0400.1  
2384 10. 82641.0 -0415.4  
2385 9.8 82704.9 -0411.9  
2386 9.0 82722.1 -0439.6

2387 10. 82736.3 -0458.8  
2388 10. 82745.0 -0401.5  
2389 9.3 82754.7 -0404.7  
2390 9.7 82805.6 -0409.7  
2391 9.5 82819.1 -0409.2  
2392 9.8 82838.5 -0404.0  
2393 9.9 82841.6 -0445.8  
2394 9.4 82844.7 -0449.9  
2395 9.8 82855.3 -0425.5  
2396 9.8 82904.7 -0459.3  
  
2397 9.7 82935.8 -0456.7  
2398 9.8 82951.2 -0411.7  
2399 9.8 82957.7 -0437.1  
2400 9.4 83006.4 -0427.9  
2401 6.2 83013.3 -0426.4  
2402 9.2 83018.0 -0404.4  
2403 9.4 83021.6 -0450.0  
2404 10. 83030.9 -0412.1  
2405 9.2 83053.6 -0459.3  
2406 9.5 83054.7 -0421.6  
  
2407 9.0 83130.8 -0408.6  
2408 9.7 83154.7 -0404.1  
2409 9.5 83201.5 -0442.1  
2410 8.0 83211.2 -0421.7  
2411 8.7 83212.7 -0435.1  
2412 10. 83216.8 -0423.9  
2413 9.4 83217.9 -0450.7  
2414 9.2 83251.0 -0436.4  
2415 8.5 83258.5 -0414.2  
2416 9.0 83314.9 -0437.1  
  
2417 9.3 83329.8 -0427.6  
2418 10. 83329.8 -0417.1  
2419 9.0 83340.7 -0422.3  
2420 9.1 83344.2 -0416.6  
2421 7.8 83404.0 -0417.6  
2422 9.5 83404.4 -0430.1  
2423 8.8 83408.5 -0403.9  
2424 9.9 83429.2 -0448.0  
2425 8.6 83449.2 -0411.1  
2426 9.4 83504.6 -0413.1  
  
2427 8.7 83534.5 -0406.5  
2428 9.1 83544.2 -0402.5  
2429 9.5 83551.6 -0455.2  
2430 9.5 83552.6 -0409.5  
2431 9.5 83609.9 -0428.1  
2432 10. 83629.4 -0431.8  
2433 9.8 83633.1 -0409.5  
2434 9.8 83644.5 -0406.0  
2435 8.5 83707.9 -0434.4  
2436 9.5 83712.6 -0448.5  
  
2437 10. 83718.0 -0443.1  
2438 9.3 83719.5 -0446.7  
2439 9.7 83727.2 -0412.6  
2440 9.1 83740.4 -0433.6  
2441 8.8 83756.6 -0413.6  
2442 9.3 83800.6 -0455.0  
2443 10. 83807.5 -0417.2  
2444 9.9 83828.9 -0429.8  
2445 9.8 83830.9 -0414.0  
2446 9.8 83853.6 -0414.7  
  
2447 9.0 83858.5 -0437.8  
2448 9.0 83908.9 -0403.0  
2449 10. 83917.5 -0443.1  
2450 9.9 83925.5 -0438.9  
2451 9.5 83930.0 -0417.3  
2452 9.5 83931.3 -0415.0  
2453 9.5 83956.3 -0415.5  
2454 9.5 84013.9 -0436.9  
2455 10. 84023.2 -0459.8  
2456 8.3 84038.9 -0454.2  
  
2457 9.6 84045.6 -0413.8  
2458 9.2 84103.7 -0414.8  
2459 9.5 84134.2 -0414.1  
2460 9.9 84146.8 -0435.5  
2461 7.5 84150.7 -0442.3  
2462 9.9 84215.4 -0408.9  
2463 9.9 84221.7 -0445.5  
2464 9.4 84230.1 -0439.4  
2465 9.9 84237.6 -0411.9  
2466 8.5 84238.1 -0404.5  
  
2467 8.7 84252.0 -0442.4  
2468 9.1 84309.6 -0459.1  
2469 7.1 84322.8 -0409.6  
2470 8.8 84333.5 -0451.2  
2471 8.8 84336.4 -0422.6  
2472 10. 84359.0 -0441.2  
2473 9.7 84411.6 -0456.7  
2474 8.1 84422.5 -0407.4  
2475 8.8 84425.1 -0451.6  
2476 9.1 84427.3 -0429.1

-04 2566 9h05m

2477 9.6 84428.9 -0434.0  
2478 9.1 84457.0 -0420.1  
2479 9.4 84517.5 -0406.7  
2480 9.3 84530.2 -0420.4  
2481 9.4 84532.6 -0449.2  
2482 9.9 84537.9 -0435.4  
2483 9.1 84547.0 -0405.5  
2484 10. 84609.5 -0413.8  
2485 9.8 84621.2 -0413.0  
2486 10. 84626.7 -0415.3  
  
2487 9.8 84642.0 -0442.5  
2488 9.5 84655.5 -0406.5  
2489 9.0 84701.4 -0401.6  
2490 6.0 84708.7 -0453.0  
2491 8.4 84718.5 -0444.7  
2492 8.8 84728.0 -0404.1  
2493 5.7 84731.8 -0456.1  
2494 9.7 84735.0 -0443.8  
2495 9.5 84806.9 -0439.8  
2496 9.5 84901.3 -0433.2  
  
2497 9.9 84919.1 -0451.1  
2498 9.5 84930.7 -0419.4  
2499 8.9 84936.2 -0410.3  
2500 9.1 84941.5 -0445.1  
2501 9.1 85010.2 -0428.0  
2502 9.6 85027.9 -0425.7  
2503 6.8 85044.3 -0418.2  
2504 9.8 85057.6 -0401.0  
2505 9.4 85129.6 -0452.7  
2506 9.8 85131.2 -0425.6  
  
2507 9.4 85135.8 -0428.8  
2508 8.3 85216.4 -0400.4  
2509 9.5 85217.9 -0442.6  
2510 9.5 85218.5 -0429.4  
2511 9.4 85230.5 -0441.8  
2512 9.0 85232.2 -0413.0  
2513 8.5 85235.6 -0413.5  
2514 8.7 85302.7 -0422.7  
2515 9.8 85319.3 -0441.7  
2516 10. 85323.3 -0409.3  
  
2517 9.5 85357.2 -0429.5  
2518 9.3 85414.5 -0406.7  
2519 8.3 85445.3 -0428.2  
2520 9.8 85454.2 -0428.6  
2521 9.1 85456.3 -0430.4  
2522 8.3 85501.1 -0453.1  
2523 9.1 85509.0 -0451.9  
2524 9.8 85513.1 -0422.4  
2525 9.2 85513.4 -0401.8  
2526 8.9 85516.0 -0406.3  
  
2527 9.0 85522.6 -0453.4  
2528 10. 85552.1 -0402.0  
2529 9.2 85617.3 -0434.6  
2530 6.8 85629.7 -0436.0  
2531 9.0 85711.2 -0425.3  
2532 8.6 85721.4 -0400.9  
2533 8.2 85741.9 -0406.0  
2534 9.0 85746.9 -0403.1  
2535 9.8 85753.0 -0454.0  
2536 9.3 85759.3 -0429.8  
  
2537 8.5 85806.7 -0406.8  
2538 8.9 85812.9 -0453.9  
2539 8.8 85819.8 -0426.2  
2540 10. 85819.9 -0413.0  
2541 9.5 85820.2 -0404.3  
2542 9.9 85906.3 -0412.9  
2543 9.5 85945.1 -0421.5  
2544 8.7 85946.8 -0430.0  
2545 9.5 90024.6 -0430.0  
2546 8.3 90029.2 -0440.9  
  
2547 9.8 90125.4 -0420.8  
2548 10. 90130.5 -0455.0  
2549 8.0 90132.1 -0432.2  
2550 10. 90133.5 -0415.4  
2551 8.8 90133.9 -0439.9  
2552 9.1 90138.9 -0403.4  
2553 9.8 90156.1 -0432.4  
2554 9.1 90204.2 -0439.1  
2555 9.4 90227.9 -0414.2  
2556 9.5 90238.3 -0448.4  
  
2557 9.6 90242.8 -0458.5  
2558 9.8 90248.9 -0432.7  
2559 9.0 90249.4 -0400.8  
2560 9.1 90321.8 -0401.6  
2561 9.3 90327.2 -0403.2  
2562 9.1 90411.9 -0439.1  
2563 9.5 90412.0 -0422.0  
2564 8.2 90506.5 -0407.9  
2565 7.8 90518.7 -0442.2  
2566 8.5 90547.6 -0435.5



-04 2567 9h05m

2567 9.0 90556.9 -0404.6  
2568 10. 90622.4 -0457.5  
2569 9.7 90625.0 -0410.9  
2570 10. 90625.3 -0428.4  
2571 9.5 90700.2 -0443.4  
2572 9.0 90713.4 -0404.6  
2573 8.0 90718.5 -0453.9  
2574 9.5 90749.4 -0453.5  
2575 9.1 90810.1 -0417.3  
2576 8.5 90831.2 -0449.0

2577 9.5 90835.4 -0406.6  
2578 9.8 90840.4 -0458.3  
2579 8.9 90840.9 -0415.9  
2580 8.5 90852.9 -0415.9  
2581 9.8 90903.5 -0424.4  
2582 9.5 90908.1 -0438.0  
2583 9.8 90916.2 -0441.3  
2584 9.1 90918.7 -0441.8  
2585 9.8 90938.4 -0458.5  
2586 9.0 91008.7 -0448.0

2587 8.7 91030.5 -0457.6  
2588 9.4 91036.7 -0452.2  
2589 9.9 91038.3 -0454.4  
2590 8.5 91109.9 -0417.6  
2591 9.8 91119.6 -0419.0  
2592 9.5 91146.4 -0402.5  
2593 9.7 91156.7 -0456.2  
2594 8.7 91157.4 -0447.7  
2595 9.2 91206.7 -0415.0  
2596 8.2 91222.9 -0430.6

2597 9.5 91400.6 -0412.3  
2598 9.4 91411.3 -0405.0  
2599 9.5 91425.5 -0431.7  
2600 9.8 91447.3 -0454.0  
2601 9.5 91521.9 -0424.1  
2602 7.5 91535.6 -0425.7  
2603 8.3 91537.4 -0414.3  
2604 9.4 91549.4 -0424.5  
2605 10. 91555.3 -0450.4  
2606 9.1 91608.0 -0431.4

2607 9.4 91636.2 -0446.0  
2608 7.8 91640.9 -0444.5  
2609 7.5 91647.3 -0450.6  
2610 8.6 91649.4 -0456.7  
2611 8.5 91650.7 -0440.8  
2612 8.8 91651.4 -0424.8  
2613 10. 91702.0 -0412.7  
2614 9.0 91738.5 -0427.0  
2615 9.5 91809.6 -0452.1  
2616 5.5 91809.7 -0429.9

2617 9.3 91810.0 -0459.7  
2618 9.4 91813.6 -0406.8  
2619 9.8 91815.2 -0443.0  
2620 9.6 91824.0 -0418.9  
2621 9.2 91857.3 -0420.7  
2622 8.2 91907.5 -0405.6  
2623 9.4 91929.4 -0433.0  
2624 9.2 91934.0 -0449.9  
2625 9.1 91950.9 -0428.5  
2626 10. 91952.1 -0442.0

2627 8.2 91952.8 -0407.8  
2628 8.4 92011.9 -0448.5  
2629 8.7 92038.7 -0451.7  
2630 9.5 92044.6 -0442.0  
2631 10. 92051.7 -0413.8  
2632 9.0 92056.7 -0450.4  
2633 4.5 92127.0 -0432.0  
2634 9.3 92130.1 -0456.3  
2635 9.2 92132.2 -0451.6  
2636 9.0 92137.8 -0425.0

2637 9.5 92148.2 -0444.5  
2638 9.5 92155.8 -0416.7  
2639 9.4 92223.6 -0446.7  
2640 9.9 92237.4 -0407.2  
2641 9.4 92304.3 -0422.4  
2642 9.7 92316.7 -0446.9  
2643 9.7 92319.3 -0411.5  
2644 9.3 92329.2 -0419.8  
2645 9.4 92330.5 -0403.7  
2646 9.8 92400.1 -0419.7

2647 10. 92400.9 -0415.8  
2648 10. 92401.0 -0456.9  
2649 9.5 92410.1 -0421.5  
2650 9.2 92414.6 -0444.9  
2651 9.8 92420.9 -0405.7  
2652 10. 92427.3 -0415.7  
2653 8.2 92436.4 -0426.6  
2654 9.0 92448.5 -0426.8  
2655 9.4 92514.6 -0408.9  
2656 9.1 92523.7 -0415.4

2657 9.2 92604.6 -0442.7  
2658 9.2 92621.6 -0421.9  
2659 9.2 92625.0 -0453.9  
2660 9.0 92647.3 -0428.4  
2661 10. 92654.3 -0447.2  
2662 9.0 92658.4 -0457.5  
2663 10. 92719.8 -0431.1  
2664 9.2 92729.4 -0431.1  
2665 9.1 92734.9 -0431.1  
2666 7.5 92746.7 -0414.8

2667 7.7 92757.1 -0443.7  
2668 9.5 92810.4 -0448.7  
2669 9.4 92840.1 -0448.5  
2670 9.1 92841.0 -0443.9  
2671 9.2 92848.6 -0446.1  
2672 10. 92855.0 -0441.8  
2673 9.1 92920.8 -0408.1  
2674 9.8 92935.2 -0456.7  
2675 9.5 92938.5 -0438.7  
2676 9.5 93000.8 -0410.9

2677 9.9 93050.9 -0401.0  
2678 9.1 93078.4 -0434.9  
2679 10. 93084.0 -0449.0  
2680 9.3 93047.3 -0427.3  
2681 8.0 93056.4 -0431.1  
2682 9.5 93102.5 -0405.9  
2683 9.1 93103.2 -0431.6  
2684 9.6 93116.9 -0419.1  
2685 9.8 93143.6 -0446.6  
2686 9.3 93157.6 -0403.8

2687 9.8 93205.4 -0428.8  
2688 9.5 93279.3 -0412.7  
2689 9.4 93344.5 -0448.5  
2690 9.8 93344.5 -0442.0  
2691 9.5 93352.4 -0408.7  
2692 9.7 93408.5 -0437.7  
2693 9.1 93416.7 -0453.5  
2694 9.4 93419.1 -0447.7  
2695 9.9 93428.4 -0436.9  
2696 9.8 93432.3 -0400.6

2697 9.5 93436.1 -0417.5  
2698 9.1 93512.0 -0443.3  
2699 10. 93525.2 -0421.8  
2700 10. 93536.1 -0416.8  
2701 9.0 93539.6 -0416.3  
2702 9.9 93616.5 -0452.9  
2703 10. 93642.8 -0418.0  
2704 8.7 93643.1 -0410.7  
2705 9.3 93658.0 -0454.5  
2706 9.8 93715.9 -0405.7

2707 9.7 93717.0 -0417.6  
2708 10. 93735.6 -0454.9  
2709 9.4 93742.3 -0424.5  
2710 9.4 93752.5 -0401.3  
2711 9.1 93808.4 -0423.7  
2712 10. 93820.9 -0403.9  
2713 9.4 93826.8 -0441.4  
2714 9.3 93849.5 -0416.2  
2715 9.2 93855.2 -0422.7  
2716 9.8 93915.7 -0424.4

2717 8.3 93928.8 -0433.3  
2718 9.4 93940.1 -0415.2  
2719 9.5 93945.5 -0429.9  
2720 10. 94012.3 -0435.8  
2721 9.5 94022.9 -0415.3  
2722 9.5 94038.8 -0400.9  
2723 9.2 94039.1 -0416.6  
2724 10. 94039.0 -0442.8  
2725 9.4 94100.2 -0430.2  
2726 9.5 94131.6 -0450.0

2727 9.5 94138.4 -0408.0  
2728 8.2 94148.7 -0412.0  
2729 8.6 94207.5 -0412.9  
2730 9.4 94238.3 -0426.4  
2731 9.4 94241.5 -0408.9  
2732 9.2 94246.6 -0446.3  
2733 9.1 94249.9 -0454.7  
2734 9.1 94252.1 -0451.6  
2735 9.7 94310.0 -0424.6  
2736 7.3 94310.9 -0446.0

2737 10. 94314.2 -0417.5  
2738 9.6 94318.6 -0458.1  
2739 9.3 94322.5 -0450.3  
2740 9.8 94330.4 -0416.0  
2741 9.1 94345.3 -0418.6  
2742 8.3 94411.2 -0417.1  
2743 10. 94417.6 -0456.0  
2744 8.8 94421.7 -0423.7  
2745 9.2 94457.5 -0451.8  
2746 9.8 94502.1 -0407.3

2747 8.5 94516.3 -0431.0  
2748 9.4 94546.4 -0412.2  
2749 10. 94572.5 -0419.3  
2750 9.7 94572.0 -0441.5  
2751 4.5 94718.7 -0411.1  
2752 8.6 94720.1 -0423.7  
2753 8.6 94728.5 -0451.6  
2754 9.7 94738.6 -0410.0  
2755 9.6 94738.9 -0441.1  
2756 4.8 94807.6 -0401.9

2757 7.3 94819.7 -0412.3  
2758 9.1 94828.0 -0413.8  
2759 9.1 94837.5 -0412.0  
2760 10. 94849.2 -0421.9  
2761 9.4 94850.9 -0411.1  
2762 9.0 94858.4 -0401.2  
2763 9.2 94854.3 -0401.7  
2764 8.5 94901.1 -0412.5  
2765 9.2 94915.0 -0416.5  
2766 9.6 94913.3 -0420.1

2767 10. 94934.0 -0411.4  
2768 9.6 94944.3 -0411.0  
2769 10. 94932.9 -0411.4  
2770 10. 94947.3 -0420.3  
2771 8.9 94946.4 -0411.9  
2772 9.4 94952.5 -0411.2  
2773 9.5 94954.0 -0411.6  
2774 9.2 94957.6 -0411.8  
2775 7.7 94957.6 -0411.1  
2776 9.8 94957.3 -0411.2

2777 9.2 94957.3 -0411.1  
2778 9.7 94957.3 -0411.1  
2779 9.7 94957.3 -0411.1  
2780 8.7 94957.3 -0411.1  
2781 9.7 94957.3 -0411.1  
2782 9.4 94957.3 -0411.1  
2783 9.3 94957.3 -0411.1  
2784 9.3 94957.3 -0411.1  
2785 9.5 94957.3 -0411.1  
2786 9.7 94957.3 -0411.1

2787 9.6 94957.3 -0411.1  
2788 9.7 94957.3 -0411.1  
2789 9.7 94957.3 -0411.1  
2790 9.4 94957.3 -0411.1  
2791 8.7 94957.3 -0411.1  
2792 9.9 94957.3 -0411.1  
2793 9.7 94957.3 -0411.1  
2794 9.1 94957.3 -0411.1  
2795 8.7 94957.3 -0411.1  
2796 10. 94957.3 -0411.1

2797 9.7 94957.3 -0411.1  
2798 9.6 94957.3 -0411.1  
2799 10. 94957.3 -0411.1  
2800 9.8 94957.3 -0411.1  
2801 10. 94957.3 -0411.1  
2802 8.2 94957.3 -0411.1  
2803 9.2 94957.3 -0411.1  
2804 9.5 94957.3 -0411.1  
2805 9.5 94957.3 -0411.1  
2806 9.3 94957.3 -0411.1

2807 8.8 94957.3 -0411.1  
2808 9.8 94957.3 -0411.1  
2809 8.0 94957.3 -0411.1  
2810 7.2 94957.3 -0411.1  
2811 10. 94957.3 -0411.1  
2812 8.7 94957.3 -0411.1  
2813 9.4 94957.3 -0411.1  
2814 9.9 94957.3 -0411.1  
2815 9.6 94957.3 -0411.1  
2816 8.7 94957.3 -0411.1

2817 7.0 94957.3 -0411.1  
2818 9.5 94957.3 -0411.1  
2819 7.3 94957.3 -0411.1  
2820 10. 94957.3 -0411.1  
2821 8.6 94957.3 -0411.1  
2822 9.4 94957.3 -0411.1  
2823 9.9 94957.3 -0411.1  
2824 10. 94957.3 -0411.1  
2825 9.5 94957.3 -0411.1  
2826 9.6 94957.3 -0411.1

2827 8.0 94957.3 -0411.1  
2828 9.6 94957.3 -0411.1  
2829 10. 94957.3 -0411.1  
2830 8.7 94957.3 -0411.1  
2831 10. 94957.3 -0411.1  
2832 9.9 94957.3 -0411.1  
2833 10. 94957.3 -0411.1  
2834 9.8 94957.3 -0411.1  
2835 9.9 94957.3 -0411.1  
2836 10. 94957.3 -0411.1

-04 2926 10h34m

2837 9.9 94957.3 -0411.1  
2838 10. 94957.3 -0411.1  
2839 8.7 94957.3 -0411.1  
2840 6.5 94957.3 -0411.1  
2841 8.0 94957.3 -0411.1  
2842 9.1 94957.3 -0411.1  
2843 9.9 94957.3 -0411.1  
2844 10. 94957.3 -0411.1  
2845 10. 94957.3 -0411.1  
2846 7.0 94957.3 -0411.1

2847 7.0 94957.3 -0411.1  
2848 9.3 94957.3 -0411.1  
2849 9.6 94957.3 -0411.1  
2850 9.8 94957.3 -0411.1  
2851 10. 94957.3 -0411.1  
2852 9.4 94957.3 -0411.1  
2853 9.6 94957.3 -0411.1  
2854 9.9 94957.3 -0411.1  
2855 9.1 94957.3 -0411.1  
2856 9.5 94957.3 -0411.1

2857 9.4 94957.3 -0411.1  
2858 9.6 94957.3 -0411.1  
2859 10. 94957.3 -0411.1  
2860 9.3 94957.3 -0411.1  
2861 7.3 94957.3 -0411.1  
2862 9.4 94957.3 -0411.1  
2863 10. 94957.3 -0411.1  
2864 10. 94957.3 -0411.1  
2865 9.1 94957.3 -0411.1  
2866 9.8 94957.3 -0411.1

2867 9.9 94957.3 -0411.1  
2868 9.8 94957.3 -0411.1  
2869 9.6 94957.3 -0411.1  
2870 9.8 94957.3 -0411.1  
2871 9.5 94957.3 -0411.1  
2872 9.4 94957.3 -0411.1  
2873 8.1 94957.3 -0411.1  
2874 10. 94957.3 -0411.1  
2875 10. 94957.3 -0411.1  
2876 9.8 94957.3 -0411.1

2877 9.4 94957.3 -0411.1  
2878 8.9 94957.3 -0411.1  
2879 10. 94957.3 -0411.1  
2880 9.5 94957.3 -0411.1  
2881 10. 94957.3 -0411.1  
2882 9.4 94957.3 -0411.1  
2883 10. 94957.3 -0411.1  
2884 9.5 94957.3 -0411.1  
2885 9.8 94957.3 -0411.1  
2886 9.8 94957.3 -0411.1

2887 9.1 94957.3 -0411.1  
2888 9.2 94957.3 -0411.1  
2889 9.6 94957.3 -0411.1  
2890 9.7 94957.3 -0411.1  
2891 9.8 94957.3 -0411.1  
2892 9.9 94957.3 -0411.1  
2893 10. 94957.3 -0411.1  
2894 9.1 94957.3 -0411.1  
2895 9.5 94957.3 -0411.1  
2896 9.8 94957.3 -0411.1

2897 9.6 94957.3 -0411.1  
2898 7.5 94957.3 -0411.1  
2899 10. 94957.3 -0411.1  
2900 9.8 94957.3 -0411.1  
2901 9.8 94957.3 -0411.1  
2902 8.2 94957.3 -0411.1  
2903 9.2 94957.3 -0411.1  
2904 10. 94957.3 -0411.1  
2905 9.5 94957.3 -0411.1  
2906 9.5 94957.3 -0411.1

2907 10. 94957.3 -0411.1  
2908 9.6 94957.3 -0411.1  
2909 9.6 94957.3 -0411.1  
2910 9.0 94957.3 -0411.1  
2911 10. 94957.3 -0411.1  
2912 9.3 94957.3 -0411.1  
2913 9.7 94957.3 -0411.1  
2914 10. 94957.3 -0411.1  
2915 9.8 94957.3 -0411.1  
2916 9.5 94957.3 -0411.1

2917 9.7 94957.3 -0411.1  
2918 9.7 94957.3 -0411.1  
2919 9.8 94957.3 -0411.1  
2920 9.4 94957.3 -0411.1  
2921 9.0 94957.3 -0411.1  
2922 9.0 94957.3 -0411.1  
2923 9.8 94957.3 -0411.1  
2924 9.2 94957.3 -0411.1  
2925 9.8 94957.3 -0411.1  
2926 9.3 94957.3 -0411.1



2927 9.2 103444.6 -0447.6  
 2928 10. 103505.9 -0405.1  
 2929 9.8 103513.4 -0433.4  
 2930 10. 103528.0 -0417.0  
 2931 9.9 103547.5 -0459.8  
 2932 9.6 103550.5 -0427.1  
 2933 9.7 103551.9 -0452.5  
 2934 9.5 103604.8 -0456.0  
 2935 10. 103633.6 -0447.0  
 2936 9.0 103646.5 -0447.2

2937 9.3 103648.0 -0443.0  
 2938 10. 103649.8 -0426.7  
 2939 9.2 103824.8 -0431.2  
 2940 9.6 103839.7 -0458.7  
 2941 8.5 103853.5 -0459.9  
 2942 9.0 103853.7 -0413.1  
 2943 9.9 103904.8 -0403.5  
 2944 9.5 103914.0 -0438.7  
 2945 9.3 103928.9 -0415.6  
 2946 8.0 103929.1 -0437.3

2947 9.3 103932.0 -0416.9  
 2948 9.5 103954.9 -0436.6  
 2949 9.5 104017.4 -0434.1  
 2950 9.9 104029.3 -0405.2  
 2951 9.7 104045.6 -0410.0  
 2952 7.5 104149.4 -0438.4  
 2953 9.3 104200.5 -0444.1  
 2954 8.6 104206.5 -0443.2  
 2955 9.0 104254.6 -0453.2  
 2956 9.5 104255.9 -0407.1

2957 9.1 104310.0 -0449.6  
 2958 9.4 104316.7 -0421.2  
 2959 10. 104331.3 -0421.0  
 2960 9.4 104332.9 -0429.5  
 2961 9.4 104340.5 -0420.1  
 2962 9.1 104341.1 -0454.4  
 2963 8.9 104351.6 -0453.4  
 2964 9.6 104356.6 -0451.3  
 2965 9.2 104418.7 -0423.1  
 2966 9.7 104437.9 -0456.4

2967 9.6 104528.8 -0407.1  
 2968 9.0 104545.9 -0446.0  
 2969 9.8 104547.4 -0449.2  
 2970 9.8 104549.5 -0411.2  
 2971 10. 104604.7 -0410.2  
 2972 9.0 104614.8 -0438.0  
 2973 10. 104718.9 -0445.8  
 2974 9.8 104816.8 -0413.2  
 2975 7.9 104823.4 -0446.9  
 2976 9.6 104835.1 -0421.0

2977 8.7 104919.8 -0411.8  
 2978 9.4 104923.8 -0417.2  
 2979 10. 104940.7 -0416.5  
 2980 9.5 104955.5 -0422.1  
 2981 9.0 105018.8 -0431.5  
 2982 9.2 105023.2 -0453.1  
 2983 9.6 105031.9 -0454.7  
 2984 10. 105045.3 -0415.5  
 2985 9.2 105053.7 -0429.0  
 2986 9.9 105059.9 -0445.5

2987 9.3 105119.7 -0433.2  
 2988 9.4 105129.8 -0403.9  
 2989 9.2 105157.8 -0437.7  
 2990 9.4 105159.1 -0406.0  
 2991 10. 105215.9 -0442.4  
 2992 10. 105218.7 -0459.8  
 2993 8.8 105223.2 -0424.7  
 2994 10. 105225.3 -0435.7  
 2995 9.9 105327.6 -0426.5  
 2996 8.7 105347.5 -0454.8

2997 9.9 105436.1 -0431.7  
 2998 10. 105444.8 -0405.8  
 2999 9.8 105501.7 -0416.0  
 3000 9.8 105534.8 -0440.8  
 3001 8.6 105538.1 -0411.1  
 3002 9.1 105618.4 -0400.6  
 3003 10. 105631.7 -0438.8  
 3004 9.8 105633.1 -0425.2  
 3005 9.3 105654.5 -0423.4  
 3006 8.2 105704.4 -0436.5

3007 9.5 105704.8 -0455.7  
 3008 9.8 105714.7 -0409.8  
 3009 9.4 105742.1 -0433.2  
 3010 9.5 105809.8 -0406.0  
 3011 8.7 105819.6 -0437.0  
 3012 9.5 105835.7 -0404.2  
 3013 8.5 105839.7 -0436.1  
 3014 8.8 105935.4 -0448.3  
 3015 9.8 110012.5 -0426.6  
 3016 9.5 110019.1 -0432.9

3017 9.8 110021.4 -0409.5  
 3018 9.8 110145.2 -0403.7  
 3019 9.7 110232.9 -0414.8  
 3020 9.5 110236.5 -0449.5  
 3021 9.8 110312.1 -0419.4  
 3022 7.5 110347.0 -0431.9  
 3023 9.7 110349.6 -0411.9  
 3024 7.7 110354.7 -0441.0  
 3025 8.5 110357.4 -0403.5  
 3026 9.5 110401.1 -0413.0

3027 9.5 110511.4 -0438.4  
 3028 7.2 110525.2 -0420.2  
 3029 9.8 110534.1 -0450.9  
 3030 8.2 110603.4 -0439.5  
 3031 9.9 110615.0 -0414.6  
 3032 9.7 110632.9 -0417.6  
 3033 9.5 110658.5 -0414.2  
 3034 9.5 110700.4 -0428.6  
 3035 10. 110701.3 -0429.7  
 3036 9.3 110728.5 -0416.4

3037 9.1 110728.5 -0410.2  
 3038 9.5 110749.3 -0448.0  
 3039 5.3 110755.9 -0449.5  
 3040 8.5 110801.0 -0408.6  
 3041 9.3 110812.4 -0401.2  
 3042 8.5 110905.8 -0412.4  
 3043 9.8 110923.7 -0456.4  
 3044 8.7 110927.5 -0421.7  
 3045 9.0 111015.0 -0435.5  
 3046 10. 111029.9 -0432.8

3047 10. 111044.8 -0452.9  
 3048 9.7 111052.4 -0423.9  
 3049 7.2 111052.8 -0416.0  
 3050 9.8 111113.4 -0448.2  
 3051 9.6 111216.3 -0451.7  
 3052 9.0 111244.4 -0426.4  
 3053 9.6 111303.8 -0405.7  
 3054 9.2 111327.1 -0400.4  
 3055 9.5 111352.5 -0440.2  
 3056 8.8 111359.3 -0420.7

3057 7.9 111424.4 -0455.4  
 3058 8.7 111459.5 -0421.1  
 3059 9.4 111506.6 -0408.8  
 3060 9.2 111514.5 -0429.1  
 3061 9.5 111528.9 -0437.6  
 3062 9.8 111545.0 -0452.1  
 3063 9.1 111546.2 -0432.7  
 3064 10. 111555.7 -0404.6  
 3065 9.0 111600.0 -0419.8  
 3066 9.9 111644.2 -0411.7

3067 9.7 111718.0 -0445.4  
 3068 9.7 111730.6 -0420.5  
 3069 9.5 111835.2 -0407.5  
 3070 9.5 111840.9 -0442.7  
 3071 9.0 111901.5 -0431.3  
 3072 9.5 111933.2 -0403.9  
 3073 10. 111937.7 -0455.2  
 3074 10. 111952.4 -0450.5  
 3075 9.5 112005.7 -0415.3  
 3076 9.1 112035.6 -0451.0

3077 9.7 112037.1 -0435.6  
 3078 9.5 112049.2 -0407.5  
 3079 9.8 112142.8 -0458.5  
 3080 9.6 112155.1 -0420.3  
 3081 9.1 112158.7 -0457.2  
 3082 9.1 112230.2 -0409.6  
 3083 10. 112326.5 -0436.0  
 3084 8.5 112356.6 -0427.7  
 3085 9.4 112412.7 -0407.0  
 3086 9.7 112446.7 -0400.7

3087 8.0 112500.5 -0449.3  
 3088 9.4 112505.3 -0410.6  
 3089 8.5 112508.0 -0436.0  
 3090 9.7 112515.0 -0418.4  
 3091 9.3 112526.4 -0459.6  
 3092 9.0 112530.6 -0429.0  
 3093 8.8 112542.5 -0448.2  
 3094 9.4 112603.9 -0457.7  
 3095 10. 112638.1 -0429.0  
 3096 7.0 112658.0 -0443.5

3097 9.5 112702.3 -0457.6  
 3098 9.0 112717.0 -0447.3  
 3099 8.2 112721.7 -0408.8  
 3100 9.1 112727.9 -0450.8  
 3101 9.7 112741.0 -0455.1  
 3102 9.5 112813.8 -0425.1  
 3103 8.9 112832.7 -0415.4  
 3104 9.2 112903.4 -0411.4  
 3105 9.8 112910.7 -0450.2  
 3106 10. 112943.9 -0420.6

3107 9.8 112954.9 -0436.6  
 3108 9.6 113005.9 -0459.5  
 3109 10. 113022.2 -0451.2  
 3110 10. 113034.5 -0412.5  
 3111 9.8 113102.6 -0408.0  
 3112 9.2 113153.8 -0425.2  
 3113 8.5 113215.6 -0410.7  
 3114 8.5 113232.7 -0409.1  
 3115 10. 113243.8 -0450.0  
 3116 9.8 113301.2 -0425.0

3117 9.4 113302.1 -0401.8  
 3118 9.5 113307.3 -0421.0  
 3119 9.3 113309.2 -0435.3  
 3120 8.0 113327.7 -0423.7  
 3121 9.8 113355.9 -0454.1  
 3122 10. 113420.0 -0419.3  
 3123 10. 113432.4 -0456.1  
 3124 9.8 113449.9 -0438.9  
 3125 9.8 113459.9 -0414.5  
 3126 9.5 113505.3 -0455.0

3127 9.4 113507.3 -0450.0  
 3128 9.8 113514.9 -0418.1  
 3129 9.3 113538.8 -0411.4  
 3130 9.3 113555.2 -0411.0  
 3131 8.3 113601.4 -0438.4  
 3132 8.5 113646.3 -0446.2  
 3133 9.1 113658.7 -0424.9  
 3134 10. 113713.2 -0443.7  
 3135 9.8 113726.6 -0425.8  
 3136 9.9 113847.9 -0413.9

3137 8.0 113857.3 -0432.4  
 3138 9.9 113934.8 -0427.6  
 3139 9.5 113942.7 -0425.3  
 3140 8.0 113944.8 -0422.4  
 3141 10. 114005.7 -0433.3  
 3142 9.2 114007.0 -0439.4  
 3143 9.4 114007.5 -0421.9  
 3144 8.0 114007.6 -0426.9  
 3145 9.4 114026.1 -0411.0  
 3146 9.8 114047.9 -0457.4

3147 9.5 114106.2 -0418.8  
 3148 8.5 114142.5 -0458.5  
 3149 8.0 114228.2 -0402.6  
 3150 9.6 114307.8 -0446.1  
 3151 9.0 114331.8 -0447.8  
 3152 6.0 114338.0 -0431.4  
 3153 9.8 114405.8 -0445.3  
 3154 8.9 114406.2 -0405.1  
 3155 8.0 114425.9 -0457.0  
 3156 9.6 114515.7 -0421.2

3157 9.8 114555.5 -0442.8  
 3158 8.8 114610.9 -0416.0  
 3159 10. 114630.8 -0457.0  
 3160 9.6 114706.5 -0420.3  
 3161 9.3 114711.5 -0437.4  
 3162 7.0 114802.0 -0419.5  
 3163 9.5 114812.5 -0453.8  
 3164 9.1 114826.8 -0459.2  
 3165 9.7 114858.3 -0433.0  
 3166 9.8 114904.5 -0419.0

3167 10. 114907.4 -0446.6  
 3168 9.0 114913.2 -0424.5  
 3169 9.1 114924.8 -0414.7  
 3170 9.4 115009.1 -0430.6  
 3171 9.0 115025.2 -0422.4  
 3172 10. 115036.0 -0432.9  
 3173 9.5 115036.3 -0451.2  
 3174 9.0 115043.4 -0456.7  
 3175 9.4 115135.9 -0436.0  
 3176 10. 115213.2 -0459.8

3177 9.4 115239.7 -0429.8  
 3178 9.5 115240.8 -0411.5  
 3179 9.1 115254.8 -0452.2  
 3180 9.5 115258.2 -0459.2  
 3181 8.7 115312.9 -0418.8  
 3182 9.4 115328.7 -0444.1  
 3183 10. 115332.2 -0429.0  
 3184 9.4 115423.2 -0450.0  
 3185 9.4 115452.0 -0459.4  
 3186 10. 115455.8 -0447.0

3187 9.1 115456.9 -0458.8  
 3188 9.5 115514.1 -0454.7  
 3189 8.7 115533.6 -0427.8  
 3190 9.3 115544.7 -0427.2  
 3191 10. 115549.5 -0441.9  
 3192 7.2 115610.0 -0440.1  
 3193 10. 115618.4 -0435.5  
 3194 9.6 115640.9 -0441.8  
 3195 9.3 115658.4 -0406.9  
 3196 9.8 115659.7 -0456.8

3197 9.4 115704.2 -0405.6  
 3198 9.8 115711.8 -0419.4  
 3199 8.7 115719.7 -0457.7  
 3200 9.4 115729.0 -0420.1  
 3201 9.5 115736.5 -0441.7  
 3202 9.8 115801.5 -0438.0  
 3203 8.5 115817.2 -0457.7  
 3204 10. 115846.3 -0435.1  
 3205 9.8 115853.8 -0449.3  
 3206 9.8 115856.1 -0406.2

3207 8.7 115932.8 -0415.4  
 3208 9.4 115951.0 -0455.2  
 3209 9.4 120008.0 -0442.0  
 3210 9.8 120022.4 -0408.2  
 3211 8.8 120028.5 -0410.9  
 3212 9.4 120039.2 -0422.7  
 3213 9.5 120044.6 -0429.4  
 3214 9.2 120108.7 -0457.0  
 3215 9.8 120115.1 -0401.6  
 3216 8.5 120133.7 -0420.6

3217 9.4 120139.5 -0413.1  
 3218 9.5 120142.6 -0432.8  
 3219 6.8 120222.2 -0424.8  
 3220 9.9 120230.9 -0409.8  
 3221 9.8 120255.2 -0425.4  
 3222 9.6 120313.4 -0406.7  
 3223 10. 120335.4 -0454.6  
 3224 9.8 120338.8 -0421.7  
 3225 9.4 120351.1 -0417.9  
 3226 9.7 120421.0 -0409.7

3227 9.5 120426.0 -0433.9  
 3228 9.4 120445.6 -0429.2  
 3229 9.7 120503.3 -0415.1  
 3230 9.0 120508.8 -0443.1  
 3231 9.8 120517.2 -0416.6  
 3232 9.5 120528.3 -0444.4  
 3233 9.5 120602.3 -0444.0  
 3234 9.5 120608.7 -0447.1  
 3235 6.9 120649.6 -0454.6  
 3236 9.4 120649.8 -0410.0

3237 9.2 120659.9 -0435.0  
 3238 9.8 120813.1 -0406.3  
 3239 9.0 120840.2 -0422.1  
 3240 9.5 120849.2 -0451.8  
 3241 9.4 120901.1 -0453.4  
 3242 9.5 120919.5 -0432.8  
 3243 9.4 120923.3 -0446.3  
 3244 9.5 121003.9 -0432.0  
 3245 9.3 121036.7 -0420.5  
 3246 9.5 121053.4 -0452.4

3247 8.4 121057.8 -0413.0  
 3248 9.6 121146.5 -0409.6  
 3249 9.7 121150.6 -0420.9  
 3250 8.8 121158.9 -0456.8  
 3251 9.4 121216.7 -0453.7  
 3252 9.4 121219.4 -0433.0  
 3253 9.2 121224.9 -0436.3  
 3254 9.8 121256.7 -0414.8  
 3255 9.5 121259.3 -0415.8  
 3256 9.4 121337.7 -0449.5

3257 9.8 121344.3 -0459.9  
 3258 9.0 121412.4 -0434.9  
 3259 10. 121452.7 -0449.8  
 3260 9.8 121507.4 -0436.3  
 3261 8.9 121514.5 -0430.2  
 3262 9.5 121515.2 -0456.9  
 3263 9.4 121527.3 -0440.2  
 3264 9.8 121528.5 -0434.0  
 3265 8.5 121529.3 -0458.4  
 3266 9.4 121535.2 -0447.0

3267 9.0 121544.3 -0406.2  
 3268 6.5 121547.7 -0409.7  
 3269 10. 121559.1 -0422.2  
 3270 10. 121601.5 -0432.7  
 3271 9.3 121646.0 -0431.3  
 3272 9.4 121650.3 -0417.0  
 3273 8.5 121718.1 -0450.7  
 3274 9.1 121749.6 -0422.1  
 3275 9.0 121753.9 -0424.5  
 3276 8.0 121823.2 -0402.9

3277 9.9 121837.3 -0410.0  
 3278 9.4 121854.8 -0408.3  
 3279 9.4 121855.0 -0418.7  
 3280 9.7 121859.7 -0415.4  
 3281 7.8 121920.1 -0447.3  
 3282 9.4 121921.0 -0452.8  
 3283 9.2 121932.8 -0418.2  
 3284 9.8 122008.0 -0454.8  
 3285 9.8 122021.1 -0423.5  
 3286 9.7 122027.0 -0428.0



3287 9.8 122051.3 -0444.1  
 3288 9.0 122105.1 -0448.0  
 3289 9.8 122119.3 -0438.2  
 3290 9.5 122124.2 -0459.1  
 3291 9.8 122126.1 -0403.4  
 3292 9.5 122245.3 -0401.9  
 3293 9.3 122253.9 -0433.1  
 3294 9.0 122340.3 -0431.3  
 3295 9.7 122345.6 -0416.9  
 3296 6.3 122411.5 -0414.8

3297 8.4 122430.4 -0459.3  
 3298 9.4 122512.1 -0423.7  
 3299 9.0 122536.0 -0451.4  
 3300 9.5 122605.3 -0408.3  
 3301 8.5 122621.5 -0426.4  
 3302 9.4 122634.2 -0446.3  
 3303 8.8 122643.8 -0459.9  
 3304 9.5 122705.8 -0424.8  
 3305 9.8 122718.3 -0423.7  
 3306 9.3 122724.3 -0404.0

3307 8.1 122726.0 -0421.2  
 3308 10. 122735.4 -0429.4  
 3309 9.2 122757.9 -0432.0  
 3310 9.6 122820.2 -0457.3  
 3311 9.5 122848.3 -0411.7  
 3312 9.0 122911.3 -0437.3  
 3313 9.5 122949.3 -0412.3  
 3314 9.8 122952.2 -0432.9  
 3315 9.4 123027.6 -0458.9  
 3316 9.7 123037.8 -0447.3

3317 9.2 123052.2 -0433.5  
 3318 9.5 123104.2 -0433.1  
 3319 8.5 123113.3 -0431.6  
 3320 10. 123143.6 -0414.3  
 3321 9.0 123145.3 -0444.8  
 3322 10. 123150.2 -0455.4  
 3323 9.8 123200.1 -0416.6  
 3324 10. 123213.7 -0413.2  
 3325 9.8 123313.4 -0408.9  
 3326 9.9 123323.4 -0444.4

3327 9.6 123350.0 -0458.7  
 3328 9.8 123407.0 -0401.8  
 3329 9.5 123415.2 -0453.7  
 3330 9.8 123422.7 -0412.8  
 3331 8.1 123431.3 -0425.5  
 3332 9.5 123435.9 -0406.0  
 3333 9.1 123446.4 -0448.4  
 3334 9.3 123501.7 -0439.1  
 3335 8.0 123508.1 -0440.0  
 3336 10. 123522.5 -0444.5

3337 9.8 123524.2 -0422.6  
 3338 9.8 123525.7 -0432.2  
 3339 9.2 123529.1 -0410.1  
 3340 9.1 123538.6 -0456.3  
 3341 9.7 123549.4 -0417.6  
 3342 9.2 123606.3 -0428.5  
 3343 9.7 123618.1 -0410.0  
 3344 8.6 123642.0 -0410.7  
 3345 9.5 123647.8 -0416.0  
 3346 9.4 123710.4 -0431.1

3347 9.9 123724.3 -0406.2  
 3348 8.8 123733.8 -0428.4  
 3349 9.7 123740.0 -0410.2  
 3350 8.7 123758.0 -0419.7  
 3351 7.3 123803.9 -0401.1  
 3352 9.1 123813.5 -0451.5  
 3353 9.5 123840.4 -0407.3  
 3354 9.8 123939.6 -0443.0  
 3355 9.5 123949.5 -0457.9  
 3356 9.3 124016.7 -0429.3

3357 9.5 124028.6 -0416.2  
 3358 9.5 124054.3 -0428.1  
 3359 8.5 124139.6 -0439.1  
 3360 8.8 124208.3 -0420.4  
 3361 9.8 124243.7 -0455.3  
 3362 9.8 124250.9 -0415.1  
 3363 9.5 124311.5 -0445.9  
 3364 9.8 124311.8 -0424.7  
 3365 9.3 124319.3 -0415.3  
 3366 9.2 124425.6 -0433.7

3367 9.3 124448.4 -0471.0  
 3368 8.5 124451.1 -0435.9  
 3369 8.8 124457.6 -0416.0  
 3370 9.2 124504.3 -0452.5  
 3371 9.5 124523.1 -0435.9  
 3372 9.1 124527.3 -0404.4  
 3373 8.8 124557.1 -0412.6  
 3374 9.6 124643.1 -0457.9  
 3375 9.2 124650.2 -0433.1  
 3376 9.2 124707.8 -0429.0

3377 8.9 124815.6 -0415.0  
 3378 10. 124834.2 -0405.4  
 3379 7.2 124846.8 -0404.5  
 3380 8.9 124853.6 -0427.2  
 3381 9.6 124928.5 -0410.2  
 3382 9.5 124952.0 -0444.8  
 3383 9.8 124953.1 -0434.5  
 3384 8.8 125022.3 -0431.4  
 3385 9.8 125028.4 -0443.9  
 3386 9.8 125036.1 -0454.2

3387 10. 125103.9 -0455.2  
 3388 9.8 125117.3 -0401.6  
 3389 9.7 125118.5 -0439.4  
 3390 8.0 125154.7 -0407.4  
 3391 9.2 125171.0 -0456.8  
 3392 9.6 125252.8 -0424.1  
 3393 9.3 125305.7 -0406.1  
 3394 9.5 125316.2 -0459.1  
 3395 9.1 125329.6 -0434.8  
 3396 9.8 125330.7 -0402.3

3397 9.8 125403.5 -0411.3  
 3398 9.8 125412.6 -0429.3  
 3399 9.4 125435.5 -0414.6  
 3400 9.9 125443.5 -0414.2  
 3401 9.4 125448.1 -0430.1  
 3402 9.2 125459.9 -0432.6  
 3403 9.5 125503.2 -0401.5  
 3404 9.1 125506.2 -0412.1  
 3405 8.7 125528.5 -0459.1  
 3406 9.6 125538.4 -0426.0

3407 10. 125549.2 -0411.4  
 3408 7.5 125621.3 -0422.4  
 3409 9.8 125645.0 -0435.5  
 3410 9.5 125648.4 -0456.4  
 3411 9.4 125712.8 -0448.4  
 3412 9.6 125725.7 -0407.3  
 3413 9.6 125752.7 -0426.8  
 3414 9.0 125802.2 -0424.8  
 3415 9.8 125816.7 -0417.9  
 3416 9.4 125821.5 -0417.6

3417 9.9 125830.6 -0432.8  
 3418 8.0 125834.5 -0421.3  
 3419 8.4 125856.2 -0403.6  
 3420 9.8 125858.4 -0446.3  
 3421 9.2 125905.5 -0438.2  
 3422 9.8 125938.7 -0450.7  
 3423 9.5 130055.0 -0437.5  
 3424 8.8 130058.2 -0410.7  
 3425 8.9 130110.2 -0400.1  
 3426 9.5 130143.5 -0440.4

3427 9.8 130156.7 -0405.5  
 3428 9.4 130206.7 -0456.6  
 3429 10. 130219.4 -0437.5  
 3430 4.3 130226.6 -0445.8  
 3431 9.9 130245.8 -0458.5  
 3432 7.6 130312.9 -0410.0  
 3433 9.8 130349.5 -0405.1  
 3434 9.8 130353.3 -0430.5  
 3435 9.6 130400.4 -0444.3  
 3436 9.7 130420.6 -0433.4

3437 9.4 130435.6 -0411.9  
 3438 9.9 130513.5 -0443.3  
 3439 8.0 130541.6 -0414.9  
 3440 9.1 130542.6 -0437.2  
 3441 10. 130550.2 -0430.1  
 3442 9.5 130628.4 -0405.9  
 3443 10. 130653.6 -0437.4  
 3444 9.3 130655.3 -0415.0  
 3445 9.3 130708.0 -0443.4  
 3446 9.3 130729.8 -0428.9

3447 9.9 130743.5 -0444.0  
 3448 9.6 130746.5 -0442.9  
 3449 10. 130756.9 -0411.9  
 3450 9.0 130804.4 -0451.8  
 3451 9.3 130807.3 -0427.9  
 3452 9.5 130832.8 -0453.9  
 3453 8.0 130909.6 -0448.1  
 3454 9.9 131018.8 -0437.3  
 3455 9.3 131021.7 -0445.6  
 3456 9.3 131024.6 -0441.4

3457 9.3 131032.5 -0404.5  
 3458 9.4 131045.4 -0442.4  
 3459 9.5 131206.5 -0445.0  
 3460 9.4 131245.8 -0453.9  
 3461 9.6 131248.9 -0426.0  
 3462 9.8 131251.7 -0457.6  
 3463 8.4 131255.8 -0455.2  
 3464 8.4 131329.8 -0454.3  
 3465 9.3 131417.4 -0403.9  
 3466 10. 131504.2 -0411.4

3467 9.7 131517.5 -0442.1  
 3468 9.7 131520.0 -0442.3  
 3469 6.0 131548.9 -0409.8  
 3470 8.2 131625.3 -0423.8  
 3471 9.6 131644.4 -0402.9  
 3472 6.3 131700.5 -0424.4  
 3473 7.6 131708.9 -0409.2  
 3474 8.7 131716.2 -0429.8  
 3475 10. 131733.6 -0456.1  
 3476 9.9 131745.6 -0434.1

3477 10. 131810.3 -0404.6  
 3478 9.9 131831.2 -0441.3  
 3479 9.8 131920.7 -0426.2  
 3480 9.4 131920.8 -0429.9  
 3481 9.4 131928.5 -0438.1  
 3482 9.4 131933.0 -0413.6  
 3483 9.9 131936.9 -0403.4  
 3484 9.8 131952.7 -0445.6  
 3485 9.0 132008.1 -0427.1  
 3486 10. 132010.4 -0402.7

3487 9.0 132016.0 -0412.7  
 3488 9.1 132018.8 -0459.8  
 3489 9.5 132027.3 -0408.7  
 3490 9.1 132030.3 -0454.7  
 3491 10. 132032.6 -0437.2  
 3492 9.2 132053.4 -0429.4  
 3493 10. 132057.3 -0410.0  
 3494 8.7 132212.0 -0409.2  
 3495 9.7 132231.2 -0411.5  
 3496 10. 132239.2 -0442.6

3497 9.9 132321.5 -0421.2  
 3498 10. 132341.0 -0453.0  
 3499 9.8 132413.4 -0411.7  
 3500 9.4 132424.0 -0407.0  
 3501 10. 132521.3 -0430.4  
 3502 9.7 132528.6 -0444.4  
 3503 9.8 132536.1 -0441.3  
 3504 9.3 132536.1 -0413.8  
 3505 9.6 132554.0 -0454.5  
 3506 8.6 132558.7 -0455.1

3507 9.5 132618.3 -0428.2  
 3508 8.9 132642.6 -0412.5  
 3509 9.5 132700.0 -0446.8  
 3510 9.4 132722.8 -0430.7  
 3511 9.3 132733.2 -0454.6  
 3512 9.3 132738.5 -0406.6  
 3513 10. 132744.9 -0459.0  
 3514 8.2 132753.4 -0411.2  
 3515 6.5 132759.3 -0439.1  
 3516 9.7 132851.5 -0417.5

3517 10. 132857.9 -0414.9  
 3518 9.7 132858.5 -0418.3  
 3519 9.1 132937.3 -0430.5  
 3520 9.4 132941.2 -0437.2  
 3521 8.2 132951.4 -0403.7  
 3522 9.9 133007.1 -0443.5  
 3523 9.5 133009.6 -0444.4  
 3524 9.8 133055.5 -0452.8  
 3525 9.5 133055.8 -0414.9  
 3526 10. 133109.4 -0405.0

3527 8.4 133142.3 -0457.2  
 3528 9.5 133150.2 -0433.3  
 3529 9.6 133150.5 -0402.2  
 3530 9.8 133156.6 -0433.0  
 3531 9.3 133205.1 -0415.7  
 3532 9.8 133219.2 -0439.5  
 3533 8.0 133252.8 -0430.6  
 3534 9.6 133404.7 -0435.4  
 3535 8.7 133448.1 -0456.3  
 3536 9.1 133512.8 -0433.2

3537 9.8 133532.3 -0432.4  
 3538 8.8 133607.7 -0452.4  
 3539 9.8 133608.0 -0437.2  
 3540 7.0 133621.6 -0445.8  
 3541 9.3 133639.5 -0428.9  
 3542 9.0 133651.5 -0456.7  
 3543 8.8 133708.9 -0404.2  
 3544 9.8 133723.7 -0434.9  
 3545 9.8 133727.4 -0401.3  
 3546 9.2 133735.6 -0434.2

3547 9.8 133738.3 -0405.3  
 3548 9.5 133741.3 -0457.0  
 3549 9.8 133743.9 -0453.0  
 3550 9.2 133749.4 -0400.2  
 3551 9.8 133753.9 -0454.0  
 3552 10. 133755.5 -0430.8  
 3553 10. 133806.8 -0402.0  
 3554 9.0 133807.9 -0424.8  
 3555 8.0 133846.7 -0408.8  
 3556 9.8 133916.4 -0456.0

3557 8.5 133920.4 -0443.1  
 3558 9.8 133954.3 -0455.2  
 3559 10. 133958.2 -0416.2  
 3560 8.6 134023.4 -0452.3  
 3561 9.5 134054.8 -0427.7  
 3562 8.3 134058.6 -0442.4  
 3563 8.4 134143.7 -0454.3  
 3564 9.5 134145.3 -0448.9  
 3565 9.6 134158.9 -0455.4  
 3566 9.8 134222.4 -0406.8

3567 9.0 134252.7 -0446.3  
 3568 10. 134252.8 -0441.5  
 3569 9.6 134310.6 -0401.4  
 3570 9.9 134313.8 -0459.9  
 3571 9.2 134344.0 -0408.1  
 3572 9.8 134349.5 -0451.0  
 3573 9.2 134350.8 -0408.7  
 3574 9.0 134350.0 -0403.5  
 3575 9.5 134406.8 -0401.8  
 3576 9.2 134408.7 -0433.1

3577 9.0 134414.3 -0457.1  
 3578 9.8 134438.9 -0452.4  
 3579 9.4 134451.2 -0429.8  
 3580 8.5 134502.1 -0421.0  
 3581 9.8 134503.9 -0406.8  
 3582 9.6 134505.5 -0459.2  
 3583 9.2 134522.5 -0454.4  
 3584 9.8 134543.8 -0405.9  
 3585 9.1 134547.7 -0429.2  
 3586 9.8 134620.8 -0456.0

3587 9.8 134658.7 -0426.3  
 3588 9.6 134732.3 -0443.8  
 3589 9.2 134812.1 -0433.2  
 3590 10. 134823.2 -0419.0  
 3591 9.5 134900.6 -0455.0  
 3592 9.0 134912.3 -0408.5  
 3593 9.1 134919.1 -0425.2  
 3594 8.0 135006.2 -0446.5  
 3595 9.8 135006.2 -0414.6  
 3596 9.4 135152.6 -0426.7

3597 6.8 135153.0 -0442.6  
 3598 8.8 135154.1 -0408.7  
 3599 9.6 135251.0 -0445.0  
 3600 8.5 135317.1 -0430.3  
 3601 8.5 135317.6 -0412.5  
 3602 9.4 135338.2 -0404.6  
 3603 9.8 135355.1 -0444.0  
 3604 8.3 135401.6 -0458.0  
 3605 9.5 135421.6 -0445.3  
 3606 9.3 135441.6 -0437.5

3607 9.0 135451.4 -0411.6  
 3608 9.8 135511.2 -0403.6  
 3609 8.0 135521.4 -0414.8  
 3610 9.9 135544.5 -0435.8  
 3611 9.4 135604.7 -0445.0  
 3612 9.4 135618.6 -0454.8  
 3613 9.0 135620.6 -0413.4  
 3614 6.5 135640.6 -0440.7  
 3615 10. 135732.0 -0449.7  
 3616 7.8 135909.4 -0449.1

3617 9.1 135918.1 -0456.2  
 3618 8.0 135918.3 -0416.9  
 3619 9.4 135945.6 -0446.1  
 3620 9.5 135957.6 -0447.6  
 3621 9.3 140018.9 -0450.4  
 3622 9.8 140023.1 -0440.0  
 3623 8.5 140031.2 -0403.1  
 3624 9.4 140041.6 -0459.9  
 3625 9.6 140053.2 -0405.3  
 3626 9.4 140101.2 -0402.3

3627 9.8 140148.6 -0426.7  
 3628 8.5 140217.3 -0420.5  
 3629 9.6 140220.2 -0437.1  
 3630 9.5 140228.0 -0418.2  
 3631 9.8 140234.0 -0427.0  
 3632 9.8 140255.0 -0418.4  
 3633 9.2 140257.3 -0446.5  
 3634 10. 140258.1 -0440.3  
 3635 10. 140207.5 -0422.4  
 3636 9.8 140308.2 -0427.9

3637 9.7 140338.1 -0453.5  
 3638 9.0 140348.2 -0403.7  
 3639 9.5 140420.1 -0440.2  
 3640 8.6 140451.0 -0429.0  
 3641 9.4 140535.6 -0452.7  
 3642 9.8 140601.0 -0432.6  
 3643 8.0 140654.6 -0406.1  
 3644 9.0 140656.7 -0418.2  
 3645 8.2 140703.0 -0439.1  
 3646 9.6 140731.8 -0458.8



-04 3647 14h07m

3647 9.2 140746.0 -0430.0  
3648 9.5 140749.5 -0447.2  
3649 9.2 140824.1 -0455.7  
3650 9.2 140828.8 -0457.2  
3651 10.1 140835.4 -0445.4  
3652 8.8 140844.3 -0445.3  
3653 9.2 140849.7 -0449.7  
3654 9.8 140854.9 -0444.2  
3655 9.0 140910.7 -0415.0  
3656 7.0 140914.3 -0457.9  
  
3657 8.8 140931.5 -0428.7  
3658 8.8 140933.1 -0409.7  
3659 9.5 140942.6 -0400.6  
3660 9.0 141016.6 -0427.6  
3661 9.0 141022.2 -0429.2  
3662 10.1 141036.4 -0422.3  
3663 10.1 141113.3 -0421.8  
3664 9.7 141151.5 -0417.3  
3665 7.6 141206.0 -0428.6  
3666 8.8 141235.0 -0411.7  
  
3667 10.1 141253.4 -0453.3  
3668 9.2 141318.0 -0418.0  
3669 9.6 141334.5 -0452.2  
3670 8.0 141345.3 -0432.6  
3671 9.1 141346.1 -0440.1  
3672 9.4 141355.5 -0437.7  
3673 9.9 141408.1 -0433.9  
3674 9.1 141433.4 -0433.4  
3675 9.4 141438.6 -0408.0  
3676 9.2 141441.5 -0438.7  
  
3677 9.3 141452.8 -0444.4  
3678 9.2 141516.1 -0402.3  
3679 9.8 141522.5 -0403.7  
3680 9.6 141602.9 -0418.6  
3681 9.8 141633.6 -0446.0  
3682 9.1 141642.5 -0439.7  
3683 9.7 141720.1 -0451.1  
3684 9.2 141814.0 -0404.0  
3685 9.0 141827.4 -0424.6  
3686 9.4 141856.0 -0419.8  
  
3687 8.8 141856.9 -0449.6  
3688 9.3 141858.5 -0452.0  
3689 9.2 141903.0 -0404.5  
3690 8.6 141914.4 -0430.9  
3691 9.6 141922.8 -0405.7  
3692 9.1 141939.5 -0451.8  
3693 9.3 142057.0 -0401.6  
3694 8.9 142107.0 -0403.8  
3695 6.8 142113.3 -0434.1  
3696 8.0 142135.3 -0416.8  
  
3697 9.4 142216.9 -0435.8  
3698 9.8 142225.7 -0453.5  
3699 9.8 142339.0 -0457.3  
3700 9.8 142352.8 -0417.6  
3701 8.9 142417.8 -0407.4  
3702 9.7 142453.1 -0427.3  
3703 9.8 142523.8 -0447.1  
3704 8.7 142532.0 -0450.1  
3705 10.1 142539.1 -0454.0  
3706 9.6 142544.5 -0446.0  
  
3707 9.5 142546.7 -0431.2  
3708 8.9 142614.3 -0417.7  
3709 9.0 142615.4 -0426.8  
3710 9.0 142626.4 -0428.8  
3711 9.8 142631.0 -0403.3  
3712 9.4 142709.0 -0402.1  
3713 7.6 142715.0 -0400.6  
3714 9.5 142725.6 -0409.6  
3715 7.3 142808.4 -0438.0  
3716 9.0 142836.3 -0421.8  
  
3717 10.1 142842.3 -0450.5  
3718 8.4 142845.8 -0427.8  
3719 9.5 142858.9 -0456.0  
3720 9.3 142906.0 -0447.8  
3721 9.4 142927.4 -0435.2  
3722 9.4 142943.3 -0458.3  
3723 9.7 142950.4 -0431.9  
3724 10.1 142953.9 -0433.6  
3725 7.4 143016.5 -0454.9  
3726 10.1 143017.6 -0456.4  
  
3727 9.5 143035.6 -0413.6  
3728 9.8 143041.0 -0410.0  
3729 10.1 143148.3 -0448.9  
3730 9.8 143217.3 -0435.3  
3731 9.4 143312.6 -0412.9  
3732 9.0 143333.8 -0428.4  
3733 8.0 143340.3 -0418.8  
3734 9.8 143343.9 -0413.7  
3735 8.5 143433.6 -0413.6  
3736 8.0 143448.5 -0427.7

3737 9.8 143515.1 -0415.0  
3738 9.6 143521.0 -0452.3  
3739 9.8 143530.5 -0450.8  
3740 9.6 143536.9 -0417.7  
3741 9.5 143539.6 -0447.0  
3742 9.4 143548.2 -0435.5  
3743 9.8 143610.4 -0407.5  
3744 8.6 143647.4 -0456.4  
3745 8.9 143651.9 -0434.1  
3746 9.7 143752.0 -0432.2  
  
3747 9.6 143841.7 -0441.1  
3748 9.4 143845.0 -0409.7  
3749 7.3 144025.3 -0453.5  
3750 9.8 144038.5 -0445.7  
3751 9.3 144057.2 -0445.3  
3752 9.6 144134.5 -0422.3  
3753 8.7 144142.5 -0423.8  
3754 10.1 144208.0 -0409.9  
3755 9.8 144211.1 -0429.9  
3756 9.4 144219.1 -0439.9  
  
3757 9.6 144238.1 -0410.2  
3758 9.8 144318.8 -0412.6  
3759 9.8 144321.8 -0412.6  
3760 9.8 144330.5 -0428.1  
3761 9.7 144331.7 -0459.0  
3762 9.8 144344.4 -0417.9  
3763 8.7 144430.0 -0409.3  
3764 9.5 144455.0 -0434.1  
3765 9.3 144556.7 -0453.0  
3766 9.8 144537.4 -0428.2  
  
3767 9.4 144549.6 -0448.9  
3768 9.5 144613.4 -0422.1  
3769 9.0 144616.9 -0425.0  
3770 7.3 144621.8 -0458.4  
3771 9.5 144633.6 -0411.4  
3772 8.5 144701.0 -0427.8  
3773 9.6 144724.5 -0432.7  
3774 9.8 144743.7 -0459.0  
3775 9.8 144754.2 -0449.9  
3776 9.5 144819.7 -0420.8  
  
3777 9.5 144839.1 -0450.4  
3778 8.6 144847.3 -0401.2  
3779 8.5 144907.2 -0432.5  
3780 9.8 144921.3 -0456.9  
3781 9.5 145051.0 -0428.0  
3782 9.8 145058.4 -0428.9  
3783 6.5 145119.3 -0424.1  
3784 9.6 145122.2 -0449.8  
3785 9.6 145140.2 -0455.1  
3786 9.8 145203.4 -0415.3  
  
3787 9.9 145205.0 -0422.0  
3788 9.8 145213.1 -0407.9  
3789 9.7 145304.3 -0428.0  
3790 9.8 145336.1 -0407.5  
3791 9.7 145337.9 -0438.0  
3792 9.3 145358.0 -0402.4  
3793 9.8 145412.2 -0426.4  
3794 9.6 145457.3 -0408.1  
3795 9.8 145535.2 -0402.8  
3796 10.1 145558.0 -0401.1  
  
3797 9.5 145610.2 -0455.6  
3798 9.5 145625.9 -0423.9  
3799 9.2 145628.6 -0446.7  
3800 9.5 145645.1 -0450.5  
3801 9.7 145648.9 -0458.2  
3802 9.3 145651.0 -0447.1  
3803 9.8 145709.4 -0427.0  
3804 8.5 145752.9 -0426.4  
3805 9.5 145803.5 -0441.1  
3806 9.2 145808.7 -0414.4  
  
3807 9.8 145846.0 -0442.3  
3808 9.4 145851.7 -0417.6  
3809 9.8 145902.0 -0452.5  
3810 9.9 145910.4 -0419.9  
3811 9.5 145938.5 -0457.9  
3812 9.0 145959.9 -0400.3  
3813 9.8 150001.9 -0436.4  
3814 9.4 150013.9 -0429.0  
3815 9.5 150016.0 -0403.9  
3816 9.0 150024.1 -0428.2  
  
3817 9.3 150155.8 -0426.9  
3818 7.0 150156.8 -0450.3  
3819 9.5 150210.0 -0449.7  
3820 9.8 150218.8 -0413.3  
3821 9.6 150235.4 -0427.0  
3822 9.3 150251.0 -0418.1  
3823 9.2 150310.0 -0418.9  
3824 9.8 150332.0 -0450.0  
3825 9.4 150337.3 -0416.9  
3826 9.6 150338.6 -0426.1

3827 9.0 150405.8 -0455.4  
3828 8.0 150406.8 -0455.8  
3829 9.8 150413.9 -0442.0  
3830 9.7 150524.9 -0435.3  
3831 9.3 150526.4 -0401.1  
3832 8.0 150534.5 -0406.6  
3833 9.5 150600.3 -0421.5  
3834 9.1 150601.0 -0455.4  
3835 9.1 150614.9 -0432.1  
3836 9.8 150627.8 -0427.0  
  
3837 9.3 150638.0 -0438.0  
3838 9.0 150710.5 -0406.5  
3839 9.2 150711.9 -0400.9  
3840 6.5 150712.7 -0457.3  
3841 9.8 150716.8 -0418.4  
3842 9.5 150720.9 -0424.2  
3843 9.5 150723.5 -0452.8  
3844 9.2 150741.5 -0407.2  
3845 9.9 150803.3 -0416.6  
3846 9.2 150810.8 -0430.7  
  
3847 7.5 150824.9 -0421.1  
3848 9.8 150839.6 -0433.3  
3849 10.1 150851.0 -0441.4  
3850 9.4 150854.9 -0441.4  
3851 9.1 150902.3 -0426.4  
3852 9.8 150921.7 -0409.6  
3853 9.4 150929.0 -0415.5  
3854 9.9 150958.0 -0454.1  
3855 7.5 151003.9 -0439.8  
3856 9.1 151028.0 -0436.0  
  
3857 8.9 151037.0 -0443.1  
3858 8.7 151105.2 -0459.6  
3859 8.2 151121.9 -0400.6  
3860 10.1 151142.9 -0428.6  
3861 9.5 151145.9 -0430.3  
3862 9.2 151213.4 -0410.7  
3863 9.8 151241.0 -0427.4  
3864 9.2 151247.0 -0407.8  
3865 9.2 151255.1 -0437.3  
3866 6.7 151258.9 -0435.7  
  
3867 9.5 151302.2 -0455.3  
3868 9.1 151354.9 -0443.5  
3869 9.8 151355.3 -0425.4  
3870 9.2 151358.4 -0429.2  
3871 9.5 151417.5 -0451.3  
3872 9.9 151422.9 -0433.2  
3873 9.0 151430.1 -0415.4  
3874 9.5 151449.6 -0400.3  
3875 9.8 151510.2 -0410.8  
3876 9.8 151536.0 -0432.2  
  
3877 9.8 151609.7 -0417.5  
3878 9.8 151610.9 -0449.6  
3879 9.4 151611.0 -0401.3  
3880 8.5 151642.8 -0435.3  
3881 8.9 151650.4 -0443.8  
3882 9.1 151659.9 -0446.7  
3883 9.8 151743.2 -0417.0  
3884 9.8 151827.4 -0442.5  
3885 9.4 151859.3 -0444.5  
3886 9.4 151859.0 -0425.3  
  
3887 9.0 151859.4 -0413.4  
3888 9.5 151901.8 -0441.0  
3889 9.5 151949.3 -0432.7  
3890 9.3 151955.2 -0425.6  
3891 9.6 152001.9 -0451.3  
3892 9.8 152048.0 -0414.7  
3893 9.1 152114.8 -0436.1  
3894 9.5 152123.7 -0410.1  
3895 8.5 152132.2 -0405.7  
3896 10.1 152219.8 -0430.8  
  
3897 10.1 152223.4 -0446.8  
3898 9.9 152248.2 -0418.5  
3899 8.8 152321.7 -0417.2  
3900 8.5 152322.7 -0411.3  
3901 8.8 152330.9 -0442.3  
3902 9.5 152333.0 -0456.7  
3903 9.3 152336.4 -0458.2  
3904 10.1 152337.2 -0436.7  
3905 9.8 152403.7 -0412.2  
3906 9.5 152411.8 -0424.4  
  
3907 9.3 152431.8 -0401.1  
3908 9.9 152435.3 -0431.1  
3909 10.1 152512.1 -0413.3  
3910 10.1 152513.6 -0429.5  
3911 9.4 152528.9 -0400.0  
3912 9.8 152532.5 -0441.6  
3913 9.2 152539.8 -0417.1  
3914 8.5 152540.8 -0421.9  
3915 9.3 152547.4 -0407.7  
3916 9.4 152558.2 -0409.0

-04 4006 15h49m

3917 9.0 152558.3 -0443.8  
3918 9.8 152610.9 -0417.3  
3919 9.0 152624.4 -0441.6  
3920 8.6 152635.9 -0415.1  
3921 9.5 152703.8 -0448.9  
3922 9.3 152703.9 -0409.2  
3923 10.1 152723.3 -0424.0  
3924 9.0 152727.6 -0438.1  
3925 9.1 152752.4 -0453.7  
3926 9.2 152805.8 -0444.8  
  
3927 9.7 152813.2 -0417.8  
3928 9.6 152820.3 -0428.3  
3929 9.8 152912.4 -0446.8  
3930 8.5 152913.6 -0408.8  
3931 9.3 152913.7 -0406.8  
3932 9.2 152915.3 -0429.9  
3933 8.7 152919.8 -0428.3  
3934 9.1 153016.2 -0415.6  
3935 9.8 153017.7 -0425.4  
3936 8.0 153019.0 -0456.4  
  
3937 9.4 153028.8 -0426.1  
3938 9.4 153057.3 -0431.9  
3939 9.3 153058.2 -0422.3  
3940 9.8 153106.4 -0447.8  
3941 10.1 153134.2 -0420.8  
3942 9.9 153135.6 -0406.2  
3943 9.9 153136.1 -0442.6  
3944 9.2 153204.6 -0433.6  
3945 9.2 153225.6 -0423.5  
3946 9.5 153241.4 -0455.0  
  
3947 9.4 153248.9 -0406.0  
3948 9.8 153252.2 -0411.2  
3949 9.8 153255.8 -0432.0  
3950 9.6 153345.9 -0429.9  
3951 9.4 153353.2 -0425.8  
3952 9.8 153436.3 -0445.0  
3953 8.3 153453.3 -0440.4  
3954 9.8 153459.2 -0428.2  
3955 8.7 153527.6 -0456.8  
3956 9.2 153538.3 -0447.2  
  
3957 9.1 153557.8 -0450.1  
3958 8.9 153600.9 -0432.3  
3959 9.8 153622.3 -0447.6  
3960 8.8 153629.2 -0442.0  
3961 9.8 153641.7 -0430.2  
3962 9.2 153647.8 -0409.0  
3963 9.1 153717.8 -0440.6  
3964 9.8 153736.5 -0428.2  
3965 8.3 153738.9 -0410.6  
3966 9.9 153739.0 -0446.8  
  
3967 10.1 153808.7 -0430.6  
3968 9.4 153822.9 -0408.5  
3969 9.3 153823.2 -0459.9  
3970 9.5 153825.8 -0459.1  
3971 9.4 153828.2 -0429.8  
3972 9.9 153835.3 -0414.6  
3973 8.8 153907.2 -0435.7  
3974 9.3 153912.3 -0446.0  
3975 8.0 153944.2 -0440.0  
3976 8.5 154014.3 -0452.3  
  
3977 7.8 154033.9 -0420.0  
3978 10.1 154055.7 -0440.0  
3979 9.5 154055.8 -0448.0  
3980 9.8 154111.3 -0447.3  
3981 9.6 154132.7 -0442.0  
3982 8.0 154139.2 -0430.5  
3983 9.8 154141.4 -0408.6  
3984 9.5 154157.9 -0420.7  
3985 9.8 154203.9 -0439.3  
3986 9.2 154221.7 -0438.4  
  
3987 9.8 154357.3 -0451.0  
3988 9.5 154401.1 -0438.8  
3989 9.5 154403.6 -0412.2  
3990 9.8 154422.1 -0406.2  
3991 9.6 154425.0 -0419.3  
3992 9.2 154444.5 -0416.6  
3993 9.5 154452.8 -0443.2  
3994 9.6 154555.8 -0444.7  
3995 8.0 154603.1 -0402.0  
3996 9.0 154631.8 -0447.3  
  
3997 8.3 154644.9 -0416.2  
3998 8.8 154721.7 -0428.1  
3999 9.4 154743.0 -0404.9  
4000 9.1 154744.7 -0402.8  
4001 9.5 154832.6 -0419.9  
4002 9.6 154845.3 -0419.9  
4003 9.8 154852.7 -0443.8  
4004 9.5 154915.3 -0419.9  
4005 9.4 154919.8 -0437.1  
4006 9.1 154927.2 -0437.1



-04 4007 15h49m

4007 7.8 154929.4 -0458.5  
4008 9.3 154932.7 -0444.4  
4009 9.0 154943.8 -0454.3  
4010 9.3 155002.3 -0458.7  
4011 9.0 155018.1 -0402.3  
4012 9.1 155033.2 -0445.8  
4013 9.0 155048.3 -0455.0  
4014 9.1 155059.6 -0404.8  
4015 9.8 155112.7 -0446.0  
4016 9.8 155125.8 -0451.9  
  
4017 8.3 155204.0 -0439.6  
4018 9.6 155207.6 -0425.3  
4019 9.1 155234.2 -0446.3  
4020 8.2 155237.7 -0439.6  
4021 9.8 155334.1 -0407.8  
4022 9.8 155339.8 -0458.8  
4023 10.1 155405.3 -0459.2  
4024 9.5 155433.6 -0406.7  
4025 9.9 155447.7 -0433.5  
4026 8.1 155510.5 -0426.5  
  
4027 9.5 155523.6 -0412.1  
4028 9.8 155529.2 -0447.7  
4029 9.1 155533.9 -0415.9  
4030 8.7 155542.2 -0451.9  
4031 9.8 155551.6 -0411.6  
4032 8.6 155556.2 -0452.2  
4033 9.2 155630.0 -0402.6  
4034 9.6 155640.6 -0412.8  
4035 9.4 155640.8 -0447.7  
4036 8.8 155654.1 -0449.0  
  
4037 9.9 155708.7 -0451.8  
4038 8.3 155722.6 -0404.6  
4039 8.9 155729.2 -0444.8  
4040 9.2 155749.2 -0456.4  
4041 9.6 155800.2 -0452.5  
4042 7.8 155842.8 -0421.5  
4043 9.0 155901.0 -0425.4  
4044 9.6 155902.8 -0449.4  
4045 9.6 155912.0 -0400.2  
4046 9.2 155933.5 -0455.5  
  
4047 9.2 160015.1 -0432.6  
4048 9.8 160021.6 -0424.5  
4049 9.8 160047.7 -0447.3  
4050 9.1 160122.6 -0454.5  
4051 9.8 160123.5 -0427.8  
4052 8.0 160130.0 -0404.9  
4053 9.5 160148.0 -0408.7  
4054 8.5 160149.2 -0410.5  
4055 9.4 160202.7 -0455.2  
4056 9.6 160224.4 -0418.2  
  
4057 9.0 160228.0 -0425.3  
4058 9.2 160240.1 -0440.1  
4059 9.2 160245.1 -0430.9  
4060 9.5 160254.0 -0455.2  
4061 8.7 160259.9 -0421.2  
4062 8.8 160309.1 -0438.5  
4063 9.5 160317.6 -0425.3  
4064 9.5 160325.5 -0409.0  
4065 9.5 160428.5 -0416.3  
4066 9.5 160458.5 -0424.1  
  
4067 9.4 160459.0 -0427.4  
4068 9.1 160503.1 -0411.6  
4069 8.9 160504.6 -0445.9  
4070 9.4 160514.0 -0410.0  
4071 9.7 160539.5 -0433.1  
4072 9.5 160652.7 -0454.3  
4073 9.5 160653.2 -0418.5  
4074 9.6 160714.5 -0401.8  
4075 9.7 160725.5 -0416.8  
4076 9.2 160742.8 -0414.3  
  
4077 9.4 160749.0 -0403.5  
4078 9.8 160750.4 -0400.1  
4079 9.0 160804.6 -0431.7  
4080 9.3 160843.2 -0413.3  
4081 9.5 160853.1 -0447.1  
4082 9.3 160901.9 -0440.8  
4083 8.9 160902.4 -0459.2  
4084 10.1 160942.7 -0448.5  
4085 9.5 161006.8 -0449.3  
4086 3.3 161038.4 -0419.8  
  
4087 9.5 161046.6 -0429.7  
4088 9.0 161054.9 -0411.9  
4089 9.5 161107.5 -0432.8  
4090 9.4 161121.5 -0444.2  
4091 9.0 161128.1 -0427.5  
4092 8.5 161144.5 -0447.7  
4093 9.0 161225.8 -0428.4  
4094 8.8 161236.4 -0425.3  
4095 8.3 161236.7 -0412.3  
4096 8.9 161247.9 -0435.8

4097 8.7 161259.4 -0416.4  
4098 8.8 161330.0 -0430.9  
4099 9.7 161405.9 -0430.8  
4100 9.2 161418.3 -0421.7  
4101 8.9 161458.8 -0422.5  
4102 9.2 161526.5 -0410.5  
4103 8.7 161535.3 -0425.9  
4104 9.8 161544.9 -0433.5  
4105 9.4 161637.4 -0431.3  
4106 9.2 161714.8 -0433.9  
  
4107 9.0 161749.1 -0435.0  
4108 9.5 161751.3 -0450.5  
4109 9.4 161806.4 -0410.2  
4110 8.9 161837.1 -0420.9  
4111 9.5 161912.1 -0458.3  
4112 9.4 161919.3 -0400.9  
4113 9.0 161934.2 -0421.6  
4114 9.8 161935.1 -0443.1  
4115 9.2 161948.1 -0426.3  
4116 9.9 162018.3 -0419.3  
  
4117 9.1 162136.0 -0441.8  
4118 9.2 162155.9 -0458.5  
4119 9.6 162210.8 -0424.6  
4120 9.9 162234.9 -0430.2  
4121 8.8 162303.7 -0421.1  
4122 9.4 162338.5 -0456.4  
4123 9.8 162403.4 -0419.2  
4124 8.7 162435.4 -0410.9  
4125 9.8 162439.7 -0406.2  
4126 9.1 162543.0 -0446.8  
  
4127 9.5 162559.6 -0435.5  
4128 7.8 162613.9 -0444.8  
4129 9.2 162656.4 -0444.2  
4130 9.5 162721.4 -0459.5  
4131 9.1 162730.1 -0406.4  
4132 9.4 162804.3 -0457.1  
4133 9.0 162906.5 -0451.9  
4134 9.5 162921.1 -0411.1  
4135 9.6 162926.9 -0407.8  
4136 9.3 163011.0 -0445.7  
  
4137 9.8 163035.4 -0425.1  
4138 9.4 163039.0 -0443.7  
4139 8.4 163047.1 -0417.9  
4140 9.1 163055.5 -0434.3  
4141 9.7 163145.0 -0413.7  
4142 9.7 163156.6 -0432.1  
4143 8.7 163315.5 -0418.7  
4144 9.1 163335.2 -0421.4  
4145 9.4 163356.5 -0436.1  
4146 9.8 163359.6 -0449.6  
  
4147 9.4 163442.0 -0418.2  
4148 9.3 163552.6 -0415.6  
4149 9.5 163557.7 -0447.0  
4150 9.4 163634.2 -0419.1  
4151 9.5 163713.7 -0441.4  
4152 9.5 163737.1 -0427.4  
4153 9.5 163739.7 -0447.6  
4154 9.7 163819.2 -0430.9  
4155 9.8 163822.2 -0441.1  
4156 9.3 163835.0 -0401.5  
  
4157 9.5 163835.4 -0445.7  
4158 9.5 163844.7 -0410.5  
4159 9.5 163858.6 -0406.1  
4160 9.6 163922.5 -0419.3  
4161 9.5 163957.6 -0412.7  
4162 9.8 163958.6 -0406.3  
4163 9.7 164045.3 -0400.6  
4164 9.4 164057.8 -0459.5  
4165 6.9 164112.5 -0415.1  
4166 9.0 164115.8 -0459.2  
  
4167 9.4 164116.4 -0402.7  
4168 8.5 164117.1 -0444.0  
4169 8.7 164125.7 -0453.0  
4170 8.6 164129.6 -0453.2  
4171 9.4 164208.3 -0426.6  
4172 9.3 164218.3 -0459.2  
4173 9.8 164229.8 -0428.0  
4174 9.4 164234.1 -0459.2  
4175 10.1 164237.1 -0405.0  
4176 9.4 164250.9 -0458.2  
  
4177 10.1 164304.0 -0415.1  
4178 9.4 164313.1 -0445.0  
4179 9.0 164338.4 -0453.7  
4180 9.4 164355.0 -0424.5  
4181 9.8 164400.0 -0428.3  
4182 9.6 164430.4 -0416.8  
4183 8.8 164432.0 -0411.5  
4184 9.3 164440.7 -0420.7  
4185 7.3 164448.7 -0453.7  
4186 9.2 164539.1 -0440.1

4187 9.0 164539.1 -0431.2  
4188 9.5 164547.5 -0419.1  
4189 9.4 164551.0 -0435.7  
4190 9.3 164551.2 -0413.5  
4191 6.8 164606.5 -0404.4  
4192 9.8 164622.2 -0452.2  
4193 9.5 164629.6 -0427.3  
4194 7.3 164629.8 -0405.6  
4195 9.0 164653.6 -0431.5  
4196 9.4 164710.3 -0423.5  
  
4197 9.8 164713.1 -0436.8  
4198 9.5 164713.9 -0451.6  
4199 9.0 164715.1 -0441.1  
4200 9.4 164723.0 -0405.1  
4201 9.4 164739.5 -0444.9  
4202 8.5 164756.4 -0455.9  
4203 8.7 164816.1 -0436.9  
4204 9.1 164844.8 -0455.4  
4205 9.8 165028.8 -0409.0  
4206 7.8 165039.9 -0406.8  
  
4207 9.5 165058.0 -0431.4  
4208 9.3 165128.3 -0405.5  
4209 8.9 165130.3 -0423.4  
4210 9.4 165208.6 -0439.0  
4211 9.3 165212.2 -0410.3  
4212 8.0 165218.1 -0407.3  
4213 9.5 165231.7 -0455.8  
4214 9.8 165305.4 -0404.9  
4215 5.8 165324.5 -0400.0  
4216 9.0 165329.2 -0452.0  
  
4217 8.8 165339.7 -0400.2  
4218 9.4 165412.5 -0436.0  
4219 9.6 165414.1 -0437.3  
4220 9.7 165425.0 -0435.3  
4221 8.6 165442.9 -0423.5  
4222 9.9 165511.1 -0410.4  
4223 9.4 165548.5 -0432.2  
4224 9.2 165620.1 -0454.7  
4225 7.5 165729.1 -0449.2  
4226 9.3 165739.6 -0451.0  
  
4227 9.5 165813.7 -0456.8  
4228 9.5 165853.8 -0410.5  
4229 9.8 165903.5 -0446.1  
4230 9.0 165939.5 -0425.0  
4231 9.7 165945.6 -0447.3  
4232 9.4 170006.1 -0443.5  
4233 7.8 170022.5 -0407.5  
4234 9.5 170033.0 -0459.6  
4235 9.8 170037.6 -0446.8  
4236 9.4 170141.2 -0452.9  
  
4237 9.5 170212.6 -0455.0  
4238 9.3 170233.0 -0428.3  
4239 8.8 170234.8 -0438.5  
4240 9.4 170238.1 -0450.0  
4241 9.8 170255.0 -0434.2  
4242 9.5 170358.4 -0416.1  
4243 7.3 170402.8 -0427.5  
4244 8.7 170440.1 -0413.4  
4245 8.8 170507.9 -0400.5  
4246 9.8 170527.7 -0426.0  
  
4247 8.4 170536.6 -0458.3  
4248 9.2 170542.1 -0451.9  
4249 9.6 170554.0 -0442.1  
4250 9.7 170616.3 -0459.3  
4251 9.8 170630.8 -0447.1  
4252 7.4 170656.8 -0418.6  
4253 9.5 170718.4 -0457.6  
4254 9.5 170720.3 -0451.3  
4255 9.8 170727.8 -0434.3  
4256 9.5 170752.0 -0413.6  
  
4257 9.5 170824.4 -0414.4  
4258 7.8 170939.4 -0453.4  
4259 9.2 170950.2 -0420.3  
4260 9.6 171009.3 -0448.3  
4261 8.9 171100.0 -0407.2  
4262 8.2 171117.7 -0408.8  
4263 9.4 171138.4 -0426.8  
4264 9.7 171257.9 -0404.3  
4265 9.4 171303.7 -0432.4  
4266 8.8 171329.8 -0440.3  
  
4267 9.5 171338.7 -0416.7  
4268 9.3 171340.5 -0440.5  
4269 8.5 171445.0 -0435.6  
4270 9.2 171505.9 -0404.3  
4271 9.6 171746.5 -0457.4  
4272 9.6 171748.7 -0452.3  
4273 9.8 171948.8 -0447.9  
4274 9.4 171851.6 -0420.8  
4275 4.8 171856.5 -0456.8  
4276 9.3 171904.6 -0444.1

4277 9.3 171906.1 -0440.5  
4278 9.4 171908.1 -0449.0  
4279 9.3 171944.0 -0456.0  
4280 9.6 171948.5 -0457.0  
4281 9.4 171951.3 -0421.8  
4282 9.0 171954.0 -0411.7  
4283 9.8 172000.1 -0459.5  
4284 9.3 172007.3 -0410.6  
4285 9.5 172102.8 -0437.1  
4286 9.3 172141.1 -0401.2  
  
4287 9.6 172142.2 -0423.5  
4288 9.2 172204.8 -0445.7  
4289 9.0 172213.3 -0441.1  
4290 6.9 172239.8 -0414.7  
4291 9.5 172302.7 -0455.1  
4292 9.5 172340.6 -0405.8  
4293 8.7 172346.0 -0447.4  
4294 9.1 172447.4 -0418.4  
4295 9.4 172505.8 -0452.8  
4296 8.8 172517.8 -0429.4  
  
4297 9.4 172519.9 -0428.7  
4298 9.3 172520.9 -0456.1  
4299 9.4 172632.7 -0442.5  
4300 9.4 172639.3 -0408.4  
4301 8.5 172640.6 -0452.9  
4302 9.3 172658.9 -0400.0  
4303 9.4 172659.6 -0455.7  
4304 9.4 172704.0 -0422.0  
4305 9.6 172710.6 -0427.9  
4306 9.8 172721.1 -0432.2  
  
4307 8.9 172809.7 -0450.8  
4308 7.8 172813.6 -0405.5  
4309 9.2 172819.4 -0418.1  
4310 9.5 172857.0 -0420.2  
4311 9.4 172920.1 -0425.6  
4312 9.1 172921.1 -0427.3  
4313 9.3 172939.1 -0429.8  
4314 9.5 172940.4 -0431.1  
4315 8.5 172951.6 -0404.4  
4316 9.5 173003.8 -0417.6  
  
4317 9.5 173004.5 -0457.2  
4318 9.7 173017.7 -0458.9  
4319 9.7 173024.7 -0410.5  
4320 9.5 173036.0 -0408.2  
4321 8.5 173056.1 -0433.4  
4322 9.7 173115.1 -0415.4  
4323 9.1 173148.1 -0458.7  
4324 8.3 173203.2 -0452.8  
4325 7.7 173205.1 -0452.8  
4326 9.7 173223.8 -0416.2  
  
4327 9.8 173249.0 -0417.7  
4328 9.3 173259.1 -0433.0  
4329 9.8 173359.1 -0427.2  
4330 8.8 173429.1 -0412.2  
4331 8.5 173442.9 -0441.2  
4332 6.5 173452.2 -0446.4  
4333 9.0 173502.3 -0455.0  
4334 9.4 173502.4 -0428.3  
4335 9.4 173551.6 -0428.2  
4336 9.5 173551.8 -0402.9  
  
4337 9.4 173559.0 -0412.7  
4338 9.7 173614.3 -0452.9  
4339 8.8 173622.2 -0429.1  
4340 9.5 173702.1 -0434.5  
4341 9.0 173713.6 -0453.0  
4342 9.5 173715.2 -0441.5  
4343 9.8 173736.1 -0454.1  
4344 9.1 173739.4 -0417.7  
4345 9.3 173748.7 -0417.6  
4346 8.6 173755.3 -0420.3  
  
4347 9.3 173804.2 -0459.6  
4348 9.4 173848.7 -0449.8  
4349 8.9 173851.7 -0425.3  
4350 9.7 173916.1 -0417.5  
4351 9.0 173944.8 -0459.3  
4352 10.1 174022.1 -0417.0  
4353 9.2 174028.2 -0429.1  
4354 9.3 174036.4 -0413.6  
4355 9.2 174129.5 -0408.8  
4356 9.4 174136.0 -0442.5  
  
4357 9.5 174200.2 -0425.0  
4358 9.5 174222.1 -0455.8  
4359 9.7 174324.0 -0404.7  
4360 8.7 174328.8 -0408.6  
4361 9.3 174349.8 -0407.8  
4362 9.6 174357.3 -0458.6  
4363 8.0 174405.4 -0411.4  
4364 9.6 174413.5 -0452.1  
4365 7.8 174422.0 -0444.6  
4366 8.8 174529.7 -0415.4

-04 4366 17h45m



-04 4367 17h45m

4367 9.3 174540.7 -0437.4  
4368 9.5 174611.7 -0436.5  
4369 9.6 174616.0 -0414.6  
4370 9.7 174618.6 -0416.1  
4371 7.9 174636.0 -0411.0  
4372 9.5 174720.7 -0420.6  
4373 9.5 174724.3 -0447.4  
4374 7.3 174834.2 -0433.0  
4375 9.5 174902.6 -0444.8  
4376 6.3 174908.4 -0403.0

4377 9.4 174949.8 -0457.1  
4378 9.5 175013.3 -0444.4  
4379 9.2 175013.7 -0435.5  
4380 9.5 175058.8 -0451.6  
4381 9.5 175100.6 -0426.4  
4382 9.6 175126.5 -0412.2  
4383 9.6 175155.6 -0435.5  
4384 5.8 175155.6 -0448.1  
4385 9.7 175225.4 -0418.5  
4386 8.8 175400.3 -0440.8

4387 9.2 175509.7 -0414.0  
4388 8.5 175525.2 -0423.1  
4389 9.5 175608.0 -0410.1  
4390 9.0 175700.5 -0402.9  
4391 9.4 175709.1 -0419.8  
4392 9.7 175725.2 -0410.7  
4393 9.3 175725.3 -0458.2  
4394 7.9 175801.1 -0433.3  
4395 6.0 175832.2 -0445.5  
4396 9.1 175835.9 -0444.0

4397 9.4 175838.4 -0455.1  
4398 9.6 175912.2 -0433.5  
4399 9.6 175933.3 -0414.9  
4400 9.5 175935.1 -0457.1  
4401 9.4 175945.6 -0402.4  
4402 9.8 180016.1 -0402.8  
4403 7.5 180038.3 -0434.7  
4404 8.4 180050.1 -0406.3  
4405 8.0 180056.5 -0427.7  
4406 7.8 180107.1 -0400.6

4407 8.5 180140.3 -0435.8  
4408 8.9 180148.4 -0455.0  
4409 9.5 180150.8 -0458.6  
4410 9.2 180231.9 -0450.5  
4411 9.2 180256.6 -0409.5  
4412 9.2 180354.8 -0437.3  
4413 9.4 180513.9 -0420.0  
4414 7.8 180518.5 -0447.8  
4415 6.8 180530.1 -0402.7  
4416 9.8 180542.8 -0433.8

4417 9.5 180547.6 -0403.7  
4418 9.3 180552.4 -0441.8  
4419 9.2 180553.9 -0416.2  
4420 9.3 180607.1 -0416.1  
4421 9.5 180622.1 -0401.2  
4422 9.3 180703.0 -0454.7  
4423 9.0 180704.0 -0443.6  
4424 8.4 180705.0 -0443.4  
4425 9.8 180717.0 -0407.3  
4426 9.5 180717.1 -0424.6

4427 9.8 180755.9 -0455.0  
4428 9.8 180808.1 -0441.7  
4429 9.6 180842.3 -0430.3  
4430 8.6 180852.3 -0405.0  
4431 9.8 180912.8 -0440.1  
4432 9.4 180913.4 -0422.9  
4433 9.4 180914.0 -0437.4  
4434 9.3 180945.4 -0455.3  
4435 9.5 181004.7 -0454.2  
4436 9.5 181017.3 -0403.2

4437 9.4 181035.0 -0425.2  
4438 7.5 181119.8 -0409.7  
4439 9.2 181151.6 -0446.9  
4440 8.5 181155.9 -0418.9  
4441 9.5 181215.7 -0424.0  
4442 9.0 181237.3 -0407.7  
4443 9.5 181247.1 -0446.9  
4444 8.5 181255.7 -0454.8  
4445 10.1 181300.4 -0459.9  
4446 9.5 181309.3 -0406.2

4447 9.5 181323.0 -0429.1  
4448 9.3 181350.3 -0455.7  
4449 9.1 181433.1 -0445.8  
4450 9.4 181448.5 -0457.9  
4451 8.5 181451.6 -0458.7  
4452 8.8 181457.3 -0419.5  
4453 9.1 181503.5 -0433.4  
4454 9.4 181507.6 -0441.0  
4455 9.4 181535.7 -0456.8  
4456 9.6 181538.3 -0413.6

4457 8.4 181617.1 -0451.2  
4458 9.7 181632.2 -0413.4  
4459 7.5 181638.3 -0409.9  
4460 9.7 181716.4 -0432.3  
4461 9.3 181726.4 -0429.8  
4462 7.7 181732.6 -0455.4  
4463 9.4 181738.1 -0437.9  
4464 9.1 181803.7 -0417.3  
4465 9.2 181812.0 -0416.7  
4466 8.0 181819.2 -0459.5

4467 9.2 181907.0 -0420.7  
4468 9.5 181938.1 -0454.5  
4469 9.4 181940.5 -0424.3  
4470 8.0 181959.3 -0400.8  
4471 9.4 182011.0 -0420.4  
4472 9.3 182022.3 -0401.4  
4473 9.2 182031.2 -0405.6  
4474 9.2 182044.5 -0434.3  
4475 9.2 182116.8 -0421.5  
4476 8.8 182125.0 -0431.8

4477 9.3 182215.0 -0418.6  
4478 7.8 182215.7 -0404.5  
4479 9.4 182216.3 -0434.2  
4480 9.8 182238.0 -0429.5  
4481 8.8 182307.6 -0443.1  
4482 9.8 182311.8 -0453.1  
4483 9.0 182312.8 -0455.2  
4484 9.5 182346.7 -0405.8  
4485 9.2 182353.5 -0453.1  
4486 9.2 182358.7 -0405.9

4487 9.8 182422.4 -0438.6  
4488 9.8 182425.1 -0414.2  
4489 9.7 182430.0 -0414.7  
4490 9.8 182507.6 -0439.9  
4491 9.2 182529.4 -0452.3  
4492 9.7 182530.6 -0406.7  
4493 8.6 182558.1 -0455.2  
4494 9.5 182604.7 -0455.3  
4495 9.8 182622.9 -0415.8  
4496 9.2 182629.1 -0444.9

4497 8.2 182633.6 -0455.2  
4498 8.9 182647.6 -0448.9  
4499 8.8 182659.0 -0434.2  
4500 9.5 182729.6 -0439.8  
4501 9.1 182730.8 -0413.1  
4502 9.4 182748.9 -0416.6  
4503 9.3 182751.3 -0454.7  
4504 9.7 182751.7 -0449.5  
4505 9.0 182754.2 -0413.1  
4506 9.3 182823.0 -0419.8

4507 8.8 182832.1 -0423.5  
4508 9.4 182833.6 -0458.4  
4509 8.3 182841.4 -0423.1  
4510 8.5 182842.3 -0445.9  
4511 7.8 182847.1 -0440.5  
4512 9.5 182913.6 -0443.7  
4513 9.0 182915.3 -0403.4  
4514 7.5 182921.1 -0443.7  
4515 9.1 182929.4 -0458.8  
4516 9.0 182934.1 -0440.7

4517 9.1 182941.7 -0429.7  
4518 6.8 183003.8 -0455.7  
4519 9.4 183006.0 -0444.0  
4520 9.3 183008.6 -0434.6  
4521 9.2 183025.1 -0420.0  
4522 9.3 183029.7 -0459.5  
4523 9.8 183038.0 -0451.7  
4524 9.1 183044.4 -0438.3  
4525 9.1 183051.8 -0425.5  
4526 9.4 183053.3 -0459.0

4527 9.4 183106.4 -0450.4  
4528 10.1 183108.3 -0450.6  
4529 9.5 183112.3 -0443.6  
4530 9.4 183116.9 -0458.5  
4531 8.5 183122.5 -0413.4  
4532 9.5 183125.1 -0417.4  
4533 9.5 183132.3 -0430.7  
4534 9.4 183154.9 -0445.4  
4535 9.6 183156.0 -0419.5  
4536 8.5 183159.8 -0432.1

4537 9.0 183201.1 -0455.9  
4538 9.7 183219.2 -0459.9  
4539 9.4 183219.4 -0458.2  
4540 9.8 183221.8 -0442.6  
4541 9.8 183231.7 -0432.2  
4542 9.8 183234.8 -0420.1  
4543 9.8 183244.3 -0450.0  
4544 8.7 183251.5 -0445.0  
4545 9.8 183303.8 -0431.7  
4546 9.5 183306.5 -0423.5

4547 7.5 183306.9 -0437.6  
4548 8.8 183316.2 -0412.9  
4549 9.4 183332.7 -0430.1  
4550 9.4 183341.0 -0421.2  
4551 9.7 183342.0 -0410.1  
4552 9.1 183355.5 -0400.6  
4553 9.1 183416.9 -0414.8  
4554 9.0 183421.8 -0441.1  
4555 9.7 183429.7 -0405.5  
4556 9.3 183431.0 -0432.4

4557 8.8 183442.1 -0456.4  
4558 9.5 183443.0 -0420.7  
4559 9.6 183458.3 -0440.0  
4560 9.5 183508.7 -0455.6  
4561 8.7 183509.4 -0456.9  
4562 9.7 183545.8 -0417.8  
4563 9.2 183555.2 -0450.5  
4564 9.3 183603.1 -0420.7  
4565 8.3 183617.0 -0437.1  
4566 9.5 183643.0 -0427.6

4567 10.1 183647.0 -0420.7  
4568 9.4 183649.5 -0443.6  
4569 9.3 183704.4 -0410.1  
4570 9.1 183706.1 -0405.0  
4571 9.2 183730.3 -0448.7  
4572 9.3 183732.5 -0419.8  
4573 9.3 183735.6 -0456.3  
4574 9.8 183738.2 -0430.7  
4575 8.0 183747.9 -0444.3  
4576 9.5 183750.4 -0446.5

4577 9.0 183751.2 -0449.0  
4578 9.6 183801.4 -0443.2  
4579 9.4 183825.2 -0415.5  
4580 9.8 183903.6 -0408.7  
4581 9.4 183924.1 -0413.0  
4582 4.5 183928.9 -0453.8  
4583 9.0 184028.4 -0441.0  
4584 9.5 184028.9 -0415.1  
4585 9.1 184035.8 -0422.3  
4586 9.6 184053.6 -0400.2

4587 8.8 184105.6 -0403.3  
4588 9.4 184110.1 -0417.2  
4589 9.6 184110.8 -0457.2  
4590 9.8 184124.1 -0411.9  
4591 9.8 184128.0 -0431.8  
4592 9.5 184151.9 -0409.8  
4593 9.3 184208.3 -0429.2  
4594 9.3 184215.6 -0418.1  
4595 9.4 184228.2 -0416.1  
4596 9.5 184247.0 -0437.2

4597 9.4 184306.0 -0441.6  
4598 9.2 184344.9 -0419.1  
4599 9.3 184353.0 -0415.0  
4600 9.5 184403.5 -0445.4  
4601 9.1 184413.7 -0402.0  
4602 9.7 184503.3 -0453.6  
4603 8.8 184508.0 -0456.0  
4604 9.5 184514.2 -0407.5  
4605 9.8 184527.7 -0401.5  
4606 8.7 184528.3 -0413.7

4607 7.5 184530.2 -0454.2  
4608 9.0 184532.9 -0436.7  
4609 9.3 184536.8 -0423.3  
4610 8.6 184538.4 -0404.4  
4611 8.8 184556.0 -0450.8  
4612 9.6 184613.9 -0449.8  
4613 9.3 184616.7 -0448.3  
4614 8.0 184618.9 -0447.5  
4615 9.5 184626.2 -0457.2  
4616 10.1 184641.4 -0442.1

4617 9.0 184643.5 -0446.0  
4618 9.2 184644.0 -0402.6  
4619 9.0 184645.4 -0449.7  
4620 9.0 184647.0 -0453.8  
4621 9.6 184701.0 -0439.5  
4622 9.1 184708.0 -0413.9  
4623 9.2 184708.5 -0444.6  
4624 9.1 184709.4 -0441.0  
4625 9.2 184711.3 -0432.3  
4626 9.5 184715.4 -0411.4

4627 9.4 184719.1 -0455.6  
4628 9.7 184719.8 -0400.3  
4629 9.3 184726.4 -0432.2  
4630 9.4 184739.0 -0444.0  
4631 8.7 184817.5 -0458.6  
4632 8.3 184819.4 -0442.1  
4633 9.5 184820.1 -0431.9  
4634 8.7 184825.1 -0456.0  
4635 9.4 184838.9 -0439.0  
4636 9.2 184841.8 -0435.0

4637 9.4 184851.6 -0428.3  
4638 9.2 184854.4 -0445.5  
4639 9.5 184903.8 -0434.0  
4640 8.5 184906.6 -0412.3  
4641 9.2 184918.6 -0423.7  
4642 10.1 184933.5 -0455.1  
4643 9.7 184941.7 -0418.4  
4644 9.9 184945.2 -0423.5  
4645 9.6 185007.7 -0412.6  
4646 9.2 185021.6 -0410.6

4647 8.2 185028.0 -0420.0  
4648 9.0 185031.3 -0429.4  
4649 9.2 185057.4 -0438.3  
4650 7.4 185111.6 -0454.9  
4651 9.6 185134.2 -0455.9  
4652 9.3 185138.8 -0458.1  
4653 8.6 185158.0 -0410.6  
4654 9.7 185158.2 -0459.7  
4655 9.3 185202.8 -0427.0  
4656 9.5 185205.1 -0453.3

4657 8.9 185207.3 -0412.5  
4658 8.8 185225.1 -0433.4  
4659 9.5 185243.7 -0403.5  
4660 8.3 185248.4 -0431.0  
4661 9.5 185301.5 -0448.8  
4662 9.8 185311.3 -0434.9  
4663 6.8 185328.8 -0438.4  
4664 9.3 185330.3 -0421.9  
4665 8.8 185342.4 -0452.5  
4666 9.4 185405.4 -0427.9

4667 9.3 185408.8 -0408.7  
4668 8.5 185411.9 -0432.1  
4669 8.7 185417.8 -0405.0  
4670 9.3 185420.1 -0410.0  
4671 9.5 185420.4 -0403.5  
4672 9.3 185442.6 -0410.7  
4673 8.8 185452.6 -0423.2  
4674 9.3 185507.0 -0404.3  
4675 9.1 185521.2 -0435.5  
4676 9.5 185526.1 -0437.9

4677 9.2 185559.6 -0443.8  
4678 9.5 185618.5 -0431.5  
4679 9.0 185646.2 -0403.7  
4680 9.0 185647.0 -0438.4  
4681 9.9 185656.1 -0416.0  
4682 9.2 185701.9 -0420.1  
4683 8.1 185717.1 -0415.2  
4684 5.7 185718.4 -0414.4  
4685 9.5 185723.3 -0454.7  
4686 8.8 185728.2 -0423.5

4687 9.2 185739.0 -0444.7  
4688 9.2 185745.5 -0436.1  
4689 9.8 185756.0 -0452.1  
4690 9.3 185800.7 -0455.8  
4691 9.8 185811.2 -0434.2  
4692 8.5 185832.5 -0451.6  
4693 9.4 185835.7 -0406.8  
4694 8.9 185837.6 -0406.9  
4695 9.5 185849.5 -0458.9  
4696 9.0 185922.0 -0449.2

4697 8.9 185936.9 -0458.3  
4698 9.2 185940.0 -0402.4  
4699 8.8 185944.0 -0436.0  
4700 9.1 186003.5 -0458.3  
4701 9.1 186020.7 -0447.6  
4702 9.2 186020.7 -0411.3  
4703 9.5 186118.3 -0434.9  
4704 9.5 186203.0 -0402.8  
4705 10.1 186207.5 -0452.7  
4706 9.5 186216.6 -0448.0

4707 8.2 186234.5 -0417.0  
4708 8.5 186244.3 -0459.0  
4709 9.6 186300.4 -0427.9  
4710 9.3 186315.3 -0457.2  
4711 9.4 186322.2 -0417.9  
4712 8.0 186328.5 -0421.7  
4713 9.3 186338.9 -0402.1  
4714 9.4 186353.0 -0433.9  
4715 9.5 186356.4 -0426.2  
4716 8.5 186402.5 -0406.5

4717 9.4 186418.2 -0429.0  
4718 9.5 186422.5 -0453.2  
4719 8.2 186441.0 -0441.8  
4720 9.6 186453.0 -0435.2  
4721 9.4 186458.6 -0419.0  
4722 9.4 186513.3 -0445.9  
4723 9.4 186524.9 -0411.3  
4724 8.0 186527.8 -0413.4  
4725 9.0 186557.0 -0439.7  
4726 9.5 186559.9 -0407.4

-04 4726 19h05m



4727 9.2 190633.4 -0400.5  
 4728 9.8 190651.0 -0458.6  
 4729 9.4 190701.5 -0407.0  
 4730 9.8 190711.7 -0439.9  
 4731 9.4 190714.3 -0456.0  
 4732 9.0 190721.0 -0442.6  
 4733 9.1 190722.2 -0444.8  
 4734 9.6 190723.1 -0429.1  
 4735 9.5 190725.4 -0433.7  
 4736 9.3 190729.6 -0444.6

4737 8.4 190733.2 -0412.5  
 4738 9.3 190745.4 -0419.8  
 4739 9.1 190752.1 -0425.2  
 4740 9.2 190753.1 -0425.8  
 4741 9.5 190801.0 -0451.3  
 4742 9.4 190811.6 -0425.2  
 4743 10. 190810.4 -0419.1  
 4744 10. 190838.6 -0448.5  
 4745 9.2 190849.3 -0443.1  
 4746 9.4 190852.5 -0432.4

4747 9.6 190855.7 -0407.7  
 4748 9.4 190909.7 -0402.8  
 4749 9.8 190915.5 -0418.2  
 4750 7.8 190916.5 -0454.4  
 4751 8.2 190927.0 -0432.0  
 4752 10. 190930.4 -0412.1  
 4753 9.0 190932.0 -0403.7  
 4754 9.0 190940.2 -0433.7  
 4755 9.8 190945.7 -0408.7  
 4756 9.8 190957.9 -0430.9

4757 9.5 191014.4 -0409.6  
 4758 9.5 191028.9 -0427.9  
 4759 9.5 191035.5 -0442.8  
 4760 9.6 191043.3 -0457.6  
 4761 9.6 191052.5 -0400.7  
 4762 9.5 191054.0 -0450.2  
 4763 9.3 191057.5 -0447.1  
 4764 9.1 191059.4 -0444.9  
 4765 9.3 191109.5 -0408.2  
 4766 9.0 191111.4 -0430.0

4767 9.3 191112.3 -0410.9  
 4768 8.2 191114.0 -0401.8  
 4769 9.5 191121.0 -0457.2  
 4770 9.5 191121.4 -0411.0  
 4771 9.9 191125.6 -0414.1  
 4772 9.5 191132.5 -0412.5  
 4773 9.2 191133.5 -0414.9  
 4774 9.5 191148.3 -0456.0  
 4775 9.8 191208.0 -0455.5  
 4776 9.5 191231.7 -0417.1

4777 10. 191246.4 -0433.8  
 4778 9.5 191248.5 -0445.9  
 4779 8.7 191259.4 -0419.4  
 4780 9.8 191304.8 -0456.0  
 4781 7.0 191307.7 -0446.0  
 4782 9.5 191321.4 -0417.9  
 4783 9.7 191328.0 -0414.4  
 4784 9.5 191336.5 -0443.4  
 4785 9.7 191336.8 -0457.5  
 4786 9.5 191355.0 -0445.6

4787 8.5 191444.0 -0445.0  
 4788 9.4 191449.4 -0431.9  
 4789 9.9 191520.0 -0414.8  
 4790 9.6 191527.0 -0400.8  
 4791 9.1 191548.6 -0450.3  
 4792 9.2 191550.5 -0405.3  
 4793 8.7 191553.1 -0440.5  
 4794 9.3 191557.1 -0446.5  
 4795 9.5 191604.0 -0409.7  
 4796 9.7 191621.3 -0456.7

4797 9.5 191634.1 -0451.5  
 4798 9.7 191638.9 -0459.1  
 4799 8.2 191642.0 -0433.8  
 4800 9.8 191656.6 -0442.2  
 4801 9.4 191708.3 -0452.2  
 4802 9.5 191728.1 -0431.3  
 4803 8.5 191729.5 -0446.7  
 4804 9.3 191742.6 -0405.7  
 4805 8.0 191748.6 -0401.0  
 4806 9.9 191808.0 -0408.4

4807 9.8 191821.5 -0404.4  
 4808 9.8 191836.7 -0430.6  
 4809 9.5 191854.9 -0404.0  
 4810 9.5 191909.1 -0408.3  
 4811 8.5 191934.7 -0421.0  
 4812 8.8 191936.0 -0434.2  
 4813 9.1 191941.4 -0428.1  
 4814 8.8 191950.7 -0428.2  
 4815 9.0 192055.9 -0401.9  
 4816 8.3 192140.5 -0440.5

4817 9.7 192144.5 -0412.2  
 4818 9.1 192145.4 -0423.6  
 4819 9.8 192201.0 -0429.7  
 4820 9.5 192215.1 -0440.4  
 4821 9.5 192217.3 -0448.6  
 4822 9.2 192219.7 -0412.7  
 4823 9.5 192225.3 -0444.6  
 4824 9.7 192228.2 -0405.0  
 4825 9.7 192235.8 -0400.3  
 4826 9.0 192236.6 -0441.1

4827 9.5 192254.4 -0413.8  
 4828 9.5 192255.7 -0422.4  
 4829 9.5 192256.3 -0457.1  
 4830 9.5 192312.6 -0442.5  
 4831 9.4 192315.3 -0439.5  
 4832 8.5 192323.0 -0433.5  
 4833 9.4 192342.0 -0403.0  
 4834 8.5 192348.2 -0412.2  
 4835 9.2 192415.2 -0411.5  
 4836 9.5 192442.2 -0411.7

4837 9.1 192448.2 -0419.0  
 4838 9.5 192457.5 -0402.4  
 4839 9.8 192514.9 -0427.0  
 4840 9.1 192527.4 -0423.6  
 4841 9.0 192558.5 -0428.8  
 4842 9.0 192559.5 -0429.0  
 4843 8.5 192648.7 -0445.6  
 4844 9.5 192701.5 -0410.0  
 4845 9.7 192732.3 -0418.8  
 4846 7.8 192732.7 -0437.1

4847 9.5 192757.0 -0403.1  
 4848 9.5 192806.3 -0428.0  
 4849 9.4 192812.2 -0416.3  
 4850 9.0 192814.4 -0451.1  
 4851 9.5 192828.5 -0423.4  
 4852 8.5 192832.3 -0442.4  
 4853 8.8 192900.1 -0452.2  
 4854 9.5 192905.4 -0448.0  
 4855 7.5 192905.6 -0436.5  
 4856 9.8 192923.0 -0424.1

4857 9.5 192926.3 -0410.6  
 4858 8.5 192929.4 -0452.4  
 4859 9.5 192941.8 -0413.8  
 4860 8.3 192959.8 -0414.1  
 4861 5.0 193006.4 -0457.8  
 4862 9.7 193021.8 -0405.7  
 4863 9.1 193022.9 -0410.6  
 4864 9.5 193025.1 -0453.8  
 4865 8.6 193025.1 -0455.8  
 4866 9.0 193032.4 -0443.8

4867 9.5 193032.5 -0429.9  
 4868 9.5 193056.6 -0438.1  
 4869 9.3 193110.0 -0407.2  
 4870 8.5 193115.4 -0441.2  
 4871 9.5 193147.0 -0425.7  
 4872 9.8 193215.3 -0409.2  
 4873 9.0 193230.0 -0426.4  
 4874 9.8 193251.3 -0448.6  
 4875 9.8 193251.6 -0439.8  
 4876 9.5 193302.5 -0414.0

4877 7.5 193305.5 -0421.7  
 4878 9.5 193321.4 -0438.7  
 4879 9.2 193322.6 -0416.0  
 4880 8.0 193329.6 -0415.0  
 4881 9.8 193342.0 -0402.2  
 4882 8.8 193345.5 -0410.4  
 4883 7.7 193408.6 -0436.9  
 4884 9.4 193410.1 -0443.9  
 4885 9.0 193412.0 -0427.8  
 4886 9.5 193412.6 -0427.8

4887 9.8 193416.0 -0409.6  
 4888 9.5 193428.8 -0456.5  
 4889 9.0 193429.3 -0424.2  
 4890 9.0 193454.0 -0411.7  
 4891 9.4 193503.6 -0419.1  
 4892 9.4 193512.0 -0423.1  
 4893 9.0 193516.0 -0421.6  
 4894 9.5 193516.8 -0456.7  
 4895 9.5 193550.7 -0415.9  
 4896 8.8 193601.1 -0445.3

4897 9.8 193630.0 -0418.9  
 4898 9.0 193639.0 -0455.4  
 4899 9.4 193645.0 -0404.5  
 4900 9.5 193700.6 -0401.4  
 4901 9.4 193714.7 -0459.3  
 4902 9.1 193717.9 -0419.7  
 4903 8.3 193734.6 -0452.0  
 4904 9.3 193738.5 -0425.5  
 4905 8.0 193801.0 -0421.8  
 4906 9.1 193812.4 -0439.8

4907 8.5 193829.0 -0432.4  
 4908 9.5 193836.5 -0425.5  
 4909 9.5 193846.5 -0428.4  
 4910 9.0 193849.7 -0411.1  
 4911 10. 193851.1 -0403.6  
 4912 10. 193858.8 -0419.2  
 4913 9.6 193902.8 -0403.5  
 4914 9.4 193902.8 -0455.3  
 4915 9.0 193905.1 -0447.3  
 4916 7.8 193911.5 -0400.3

4917 8.8 193914.2 -0433.4  
 4918 9.5 193938.7 -0455.3  
 4919 9.1 193947.1 -0444.5  
 4920 9.5 193955.8 -0429.3  
 4921 9.5 193959.6 -0442.5  
 4922 9.5 194039.9 -0458.8  
 4923 8.9 194109.1 -0412.0  
 4924 9.5 194112.6 -0441.0  
 4925 9.8 194113.0 -0430.0  
 4926 7.8 194117.0 -0451.1

4927 9.5 194117.2 -0456.6  
 4928 8.7 194133.4 -0436.6  
 4929 9.5 194134.3 -0418.2  
 4930 9.9 194135.5 -0407.2  
 4931 10. 194138.9 -0437.0  
 4932 9.4 194142.6 -0418.0  
 4933 9.6 194146.8 -0420.7  
 4934 10. 194146.8 -0429.9  
 4935 9.8 194149.4 -0431.0  
 4936 8.0 194156.0 -0453.4

4937 9.5 194208.1 -0438.8  
 4938 8.2 194211.6 -0417.0  
 4939 9.1 194211.7 -0424.7  
 4940 8.5 194220.4 -0459.2  
 4941 9.4 194226.0 -0433.2  
 4942 9.5 194233.1 -0448.0  
 4943 9.1 194237.4 -0452.6  
 4944 9.5 194245.0 -0433.2  
 4945 9.6 194254.0 -0426.5  
 4946 9.5 194305.0 -0452.6

4947 9.5 194305.1 -0406.9  
 4948 8.3 194311.2 -0454.5  
 4949 9.0 194315.1 -0438.1  
 4950 8.5 194325.0 -0458.9  
 4951 9.5 194333.5 -0419.2  
 4952 9.4 194343.2 -0458.1  
 4953 9.8 194356.5 -0431.5  
 4954 9.5 194418.3 -0401.6  
 4955 9.5 194440.0 -0440.9  
 4956 9.8 194454.9 -0443.1

4957 9.8 194509.5 -0442.0  
 4958 9.3 194517.2 -0415.1  
 4959 10. 194517.4 -0450.4  
 4960 8.0 194539.6 -0456.7  
 4961 9.3 194601.0 -0406.0  
 4962 9.0 194606.5 -0407.2  
 4963 9.5 194607.5 -0447.0  
 4964 9.6 194618.1 -0401.3  
 4965 9.8 194622.9 -0402.5  
 4966 9.8 194700.4 -0427.3

4967 9.5 194711.8 -0408.2  
 4968 9.1 194731.5 -0440.7  
 4969 9.9 194801.0 -0437.0  
 4970 9.6 194804.0 -0445.0  
 4971 9.9 194816.1 -0456.2  
 4972 9.5 194818.4 -0415.8  
 4973 9.4 194822.5 -0409.6  
 4974 9.8 194827.1 -0451.7  
 4975 9.5 194828.6 -0449.7  
 4976 9.9 194857.8 -0415.1

4977 9.4 194950.5 -0440.6  
 4978 9.0 195004.9 -0412.7  
 4979 8.9 195007.0 -0440.6  
 4980 9.5 195024.1 -0452.0  
 4981 8.3 195039.4 -0426.1  
 4982 8.5 195031.6 -0444.7  
 4983 9.1 195037.5 -0439.1  
 4984 9.7 195049.8 -0444.7  
 4985 9.4 195056.3 -0427.2  
 4986 8.8 195127.4 -0433.7

4987 9.0 195144.8 -0455.6  
 4988 9.5 195207.0 -0442.2  
 4989 8.5 195248.7 -0403.8  
 4990 9.4 195255.8 -0413.1  
 4991 9.2 195301.5 -0441.1  
 4992 7.8 195309.0 -0442.5  
 4993 9.1 195315.1 -0455.2  
 4994 8.5 195322.5 -0411.3  
 4995 9.8 195336.5 -0442.3  
 4996 9.5 195343.1 -0456.6

4997 9.5 195343.6 -0451.9  
 4998 8.8 195356.9 -0413.2  
 4999 9.5 195404.2 -0400.5  
 5000 8.8 195423.5 -0415.9  
 5001 9.5 195445.6 -0450.4  
 5002 8.8 195515.1 -0453.1  
 5003 8.7 195544.6 -0445.9  
 5004 9.5 195546.7 -0457.1  
 5005 9.8 195552.5 -0427.6  
 5006 8.3 195605.3 -0445.8

5007 9.1 195622.2 -0453.2  
 5008 9.7 195653.9 -0412.1  
 5009 10. 195713.2 -0407.9  
 5010 7.3 195727.3 -0443.5  
 5011 8.8 195729.3 -0412.3  
 5012 9.2 195744.6 -0419.6  
 5013 6.5 195834.0 -0429.0  
 5014 9.0 195837.5 -0435.1  
 5015 9.1 195848.3 -0449.8  
 5016 7.2 195856.1 -0449.9

5017 8.3 195919.3 -0410.2  
 5018 9.2 195922.3 -0428.8  
 5019 9.5 195941.0 -0410.0  
 5020 8.8 195946.1 -0449.9  
 5021 9.0 200002.3 -0400.6  
 5022 8.8 200007.5 -0433.1  
 5023 9.7 200010.9 -0430.3  
 5024 8.9 200042.8 -0459.1  
 5025 9.5 200051.4 -0409.4  
 5026 8.8 200052.1 -0404.5

5027 8.9 200055.5 -0410.9  
 5028 9.8 200055.7 -0454.0  
 5029 9.5 200106.9 -0419.2  
 5030 9.3 200110.9 -0411.9  
 5031 9.8 200126.6 -0457.0  
 5032 9.1 200151.0 -0422.0  
 5033 9.6 200222.5 -0443.7  
 5034 8.9 200229.4 -0426.3  
 5035 9.7 200235.8 -0446.4  
 5036 9.5 200245.9 -0416.6

5037 9.1 200246.6 -0454.4  
 5038 9.7 200247.1 -0450.4  
 5039 9.0 200314.3 -0406.1  
 5040 9.9 200315.5 -0459.4  
 5041 9.8 200327.1 -0427.9  
 5042 7.8 200327.6 -0400.3  
 5043 8.8 200330.9 -0459.2  
 5044 9.7 200331.4 -0416.5  
 5045 9.4 200350.5 -0429.2  
 5046 9.6 200351.2 -0433.0

5047 9.8 200400.7 -0456.8  
 5048 9.5 200409.9 -0412.8  
 5049 10. 200413.6 -0427.4  
 5050 9.5 200418.6 -0414.7  
 5051 9.5 200441.7 -0453.9  
 5052 9.8 200446.6 -0447.2  
 5053 9.5 200451.0 -0419.3  
 5054 8.9 200452.6 -0444.8  
 5055 9.5 200456.0 -0435.1  
 5056 9.5 200456.8 -0445.6

5057 9.5 200500.6 -0412.6  
 5058 9.5 200502.0 -0422.4  
 5059 8.6 200518.1 -0445.3  
 5060 9.4 200518.3 -0429.9  
 5061 9.3 200519.1 -0429.1  
 5062 9.3 200527.9 -0430.0  
 5063 9.7 200532.5 -0432.0  
 5064 9.8 200534.9 -0452.1  
 5065 9.5 200544.9 -0412.2  
 5066 9.5 200742.4 -0418.5

5067 9.8 200756.1 -0438.0  
 5068 9.2 200802.8 -0430.9  
 5069 9.6 200826.2 -0416.0  
 5070 9.5 200831.6 -0447.8  
 5071 9.7 200836.4 -0412.4  
 5072 9.5 200841.1 -0447.6  
 5073 9.2 200847.2 -0458.8  
 5074 9.4 200855.6 -0438.9  
 5075 9.4 200858.7 -0450.3  
 5076 9.4 200908.4 -0401.4

5077 9.8 200921.9 -0452.3  
 5078 10. 200955.0 -0422.1  
 5079 9.9 201004.6 -0414.8  
 5080 9.5 201026.5 -0449.9  
 5081 9.8 201030.0 -0411.4  
 5082 9.4 201032.6 -0427.2  
 5083 9.5 201033.4 -0427.7  
 5084 9.6 201053.0 -0444.4  
 5085 9.8 201103.7 -0446.5  
 5086 9.5 201117.4 -0414.4



-04 5087 20h11m

5087 8.7 201120.7 -0444.3  
5088 9.9 201129.3 -0449.9  
5089 8.8 201135.9 -0406.3  
5090 8.4 201143.4 -0411.8  
5091 9.8 201206.5 -0455.4  
5092 9.5 201213.6 -0418.2  
5093 9.8 201230.5 -0442.4  
5094 9.7 201237.6 -0415.2  
5095 9.5 201244.4 -0400.4  
5096 9.8 201254.5 -0443.7  
  
5097 9.4 201304.1 -0428.3  
5098 9.3 201305.0 -0401.9  
5099 9.1 201306.9 -0402.6  
5100 9.9 201322.4 -0410.9  
5101 9.7 201336.0 -0440.4  
5102 9.8 201356.0 -0439.3  
5103 9.8 201358.9 -0422.0  
5104 9.2 201359.6 -0457.6  
5105 9.2 201407.2 -0451.6  
5106 9.8 201434.4 -0440.4  
  
5107 9.8 201435.0 -0454.3  
5108 8.5 201436.9 -0405.6  
5109 9.4 201516.9 -0411.4  
5110 7.8 201531.6 -0416.2  
5111 9.7 201556.0 -0442.3  
5112 9.6 201602.8 -0406.8  
5113 9.7 201609.6 -0423.0  
5114 10. 201641.7 -0435.5  
5115 10. 201642.5 -0454.6  
5116 9.5 201702.4 -0416.7  
  
5117 9.1 201711.0 -0428.5  
5118 9.0 201726.1 -0457.6  
5119 9.6 201754.0 -0454.1  
5120 9.4 201754.9 -0408.5  
5121 9.6 201757.8 -0448.1  
5122 9.5 201802.8 -0458.8  
5123 9.1 201823.3 -0422.1  
5124 7.7 201825.0 -0420.1  
5125 9.5 201836.2 -0428.4  
5126 9.0 201839.1 -0459.2  
  
5127 9.5 201850.0 -0420.5  
5128 9.3 201903.0 -0411.5  
5129 9.8 201911.9 -0454.8  
5130 9.0 201913.5 -0444.7  
5131 9.7 201917.0 -0413.1  
5132 9.7 201921.2 -0429.0  
5133 9.3 201929.8 -0455.8  
5134 9.4 201952.9 -0433.2  
5135 9.8 201956.4 -0419.1  
5136 9.8 202000.7 -0418.9  
  
5137 9.2 202011.1 -0418.0  
5138 9.7 202015.1 -0455.3  
5139 9.5 202017.7 -0457.8  
5140 9.7 202022.0 -0455.3  
5141 9.1 202023.3 -0457.8  
5142 9.1 202031.7 -0438.5  
5143 9.5 202035.5 -0422.4  
5144 9.2 202043.5 -0400.1  
5145 8.5 202047.0 -0401.9  
5146 8.5 202050.8 -0408.6  
  
5147 8.0 202059.0 -0454.4  
5148 9.5 202109.0 -0404.6  
5149 9.1 202112.4 -0431.8  
5150 9.6 202116.5 -0433.3  
5151 9.1 202123.7 -0414.1  
5152 9.4 202138.1 -0457.2  
5153 8.0 202203.5 -0439.5  
5154 8.0 202223.3 -0454.6  
5155 9.5 202232.4 -0412.5  
5156 9.1 202240.2 -0439.3  
  
5157 9.0 202250.0 -0403.5  
5158 9.8 202258.5 -0440.4  
5159 9.7 202301.6 -0441.4  
5160 9.3 202307.0 -0416.1  
5161 9.7 202310.5 -0459.8  
5162 9.5 202311.0 -0405.8  
5163 9.9 202349.1 -0413.6  
5164 9.9 202403.4 -0428.0  
5165 9.8 202410.6 -0412.9  
5166 9.0 202424.5 -0422.7  
  
5167 9.3 202443.7 -0413.8  
5168 9.0 202447.0 -0400.0  
5169 8.8 202454.0 -0442.5  
5170 9.5 202458.5 -0409.4  
5171 9.8 202510.4 -0435.6  
5172 9.0 202516.5 -0415.1  
5173 9.6 202520.6 -0415.8  
5174 9.8 202532.4 -0449.1  
5175 9.8 202539.5 -0434.7  
5176 9.5 202600.0 -0421.7

5177 9.5 202610.4 -0432.0  
5178 9.3 202613.9 -0431.6  
5179 9.3 202614.5 -0422.6  
5180 9.2 202617.0 -0444.5  
5181 9.2 202618.2 -0415.4  
5182 9.5 202645.1 -0424.8  
5183 9.5 202658.0 -0452.8  
5184 9.6 202703.0 -0426.3  
5185 9.6 202705.3 -0411.2  
5186 9.0 202717.5 -0404.1  
  
5187 9.0 202720.0 -0446.5  
5188 9.8 202740.9 -0450.6  
5189 9.5 202752.5 -0402.1  
5190 9.2 202753.7 -0436.8  
5191 9.8 202758.4 -0436.4  
5192 9.7 202810.3 -0411.1  
5193 9.7 202817.9 -0408.5  
5194 9.8 202820.7 -0412.7  
5195 9.1 202841.8 -0436.7  
5196 9.8 202842.4 -0448.5  
  
5197 9.1 202859.8 -0444.9  
5198 9.5 202900.1 -0446.8  
5199 9.7 202927.2 -0459.3  
5200 9.7 202930.1 -0422.2  
5201 9.0 202955.6 -0434.1  
5202 8.5 203008.4 -0451.6  
5203 9.5 203015.0 -0422.1  
5204 6.8 203031.6 -0453.4  
5205 9.3 203042.6 -0447.2  
5206 9.8 203114.1 -0446.3  
  
5207 10. 203119.0 -0434.2  
5208 9.5 203130.1 -0430.2  
5209 10. 203153.0 -0412.8  
5210 9.8 203213.1 -0423.3  
5211 9.9 203226.2 -0442.5  
5212 9.7 203239.5 -0444.2  
5213 9.0 203244.2 -0407.6  
5214 10. 203248.7 -0419.8  
5215 9.5 203249.5 -0424.0  
5216 8.8 203254.1 -0420.0  
  
5217 9.5 203258.8 -0419.7  
5218 9.1 203305.6 -0445.3  
5219 9.8 203324.6 -0447.9  
5220 8.7 203336.3 -0415.5  
5221 8.8 203338.0 -0436.9  
5222 9.8 203406.1 -0450.4  
5223 9.4 203407.4 -0454.3  
5224 9.5 203413.9 -0436.6  
5225 9.5 203415.7 -0408.8  
5226 9.4 203426.1 -0437.0  
  
5227 9.1 203433.2 -0407.7  
5228 9.0 203437.4 -0401.9  
5229 9.5 203451.4 -0421.3  
5230 9.5 203457.1 -0439.4  
5231 9.3 203511.1 -0443.2  
5232 9.8 203522.1 -0404.7  
5233 9.9 203527.8 -0456.9  
5234 9.9 203536.3 -0416.9  
5235 9.5 203541.1 -0400.3  
5236 8.7 203551.2 -0458.3  
  
5237 9.1 203600.4 -0426.7  
5238 9.8 203620.6 -0423.5  
5239 9.6 203628.8 -0414.2  
5240 8.9 203631.1 -0438.0  
5241 7.0 203636.6 -0425.8  
5242 9.0 203654.6 -0453.5  
5243 9.4 203722.6 -0404.5  
5244 9.2 203735.6 -0403.0  
5245 9.5 203746.0 -0459.1  
5246 9.5 203750.6 -0441.2  
  
5247 9.6 203753.6 -0459.5  
5248 8.8 203756.2 -0457.5  
5249 9.5 203809.1 -0425.0  
5250 9.8 203827.3 -0436.8  
5251 9.5 203842.1 -0401.8  
5252 9.1 203845.9 -0447.1  
5253 9.5 203846.3 -0417.3  
5254 9.1 203859.6 -0444.3  
5255 9.4 203901.8 -0415.2  
5256 8.5 203904.6 -0446.3  
  
5257 8.3 203909.5 -0435.1  
5258 9.3 203919.1 -0435.1  
5259 9.5 203947.6 -0431.2  
5260 9.7 203948.2 -0411.2  
5261 9.6 203955.1 -0405.7  
5262 9.5 204004.3 -0405.0  
5263 9.8 204023.0 -0440.9  
5264 8.8 204053.1 -0407.5  
5265 9.4 204058.5 -0403.2  
5266 9.6 204127.7 -0459.4

5267 9.5 204132.2 -0455.8  
5268 9.6 204145.6 -0438.0  
5269 9.8 204150.4 -0416.4  
5270 8.6 204201.0 -0425.3  
5271 8.5 204209.7 -0424.4  
5272 9.2 204212.6 -0402.9  
5273 8.9 204214.3 -0408.5  
5274 9.4 204246.1 -0419.0  
5275 9.2 204256.3 -0410.4  
5276 9.4 204300.6 -0446.7  
  
5277 9.8 204319.0 -0432.9  
5278 9.7 204319.4 -0415.6  
5279 9.8 204331.1 -0438.9  
5280 8.0 204342.6 -0449.4  
5281 9.2 204350.3 -0409.6  
5282 9.5 204359.3 -0410.9  
5283 9.8 204416.5 -0434.9  
5284 9.6 204445.5 -0427.8  
5285 9.6 204448.0 -0434.9  
5286 9.6 204459.6 -0410.2  
  
5287 9.5 204510.9 -0451.9  
5288 10. 204546.1 -0431.6  
5289 9.6 204550.6 -0444.3  
5290 9.5 204559.1 -0402.4  
5291 9.8 204620.8 -0432.7  
5292 9.7 204622.0 -0417.1  
5293 9.3 204630.8 -0426.3  
5294 9.0 204633.5 -0427.6  
5295 9.6 204633.9 -0401.7  
5296 9.8 204659.7 -0454.4  
  
5297 9.2 204712.0 -0431.2  
5298 9.4 204719.1 -0404.5  
5299 9.5 204733.5 -0419.1  
5300 9.1 204740.3 -0430.0  
5301 9.5 204750.8 -0400.8  
5302 9.3 204753.1 -0445.2  
5303 8.5 204754.0 -0422.0  
5304 8.7 204806.6 -0439.9  
5305 8.9 204816.7 -0413.8  
5306 9.2 204817.0 -0401.8  
  
5307 6.9 204842.6 -0406.8  
5308 9.5 204843.1 -0428.0  
5309 10. 204850.4 -0416.5  
5310 9.2 204853.0 -0432.1  
5311 7.5 204909.5 -0413.8  
5312 9.8 204910.7 -0446.0  
5313 9.7 204912.6 -0442.0  
5314 9.6 204918.6 -0442.0  
5315 9.0 204931.1 -0433.3  
5316 9.5 204947.1 -0436.4  
  
5317 9.6 205006.6 -0444.5  
5318 9.1 205014.1 -0404.7  
5319 9.8 205036.5 -0432.6  
5320 9.3 205106.3 -0409.7  
5321 7.0 205109.5 -0423.9  
5322 9.1 205110.3 -0435.3  
5323 8.3 205134.1 -0444.4  
5324 8.5 205203.0 -0456.9  
5325 9.6 205220.0 -0459.7  
5326 10. 205234.1 -0422.3  
  
5327 10. 205240.5 -0425.0  
5328 10. 205244.8 -0421.6  
5329 9.8 205248.0 -0401.3  
5330 9.5 205254.9 -0443.7  
5331 9.5 205319.3 -0427.1  
5332 8.0 205333.2 -0400.3  
5333 9.8 205337.6 -0434.7  
5334 9.1 205339.6 -0430.9  
5335 9.8 205347.6 -0428.9  
5336 9.4 205352.0 -0449.0  
  
5337 7.3 205404.1 -0441.9  
5338 8.8 205410.2 -0404.5  
5339 9.8 205417.7 -0444.6  
5340 9.0 205425.6 -0426.2  
5341 9.1 205441.1 -0416.4  
5342 9.8 205532.2 -0412.9  
5343 9.5 205537.1 -0433.2  
5344 9.8 205556.0 -0416.4  
5345 9.1 205603.6 -0429.0  
5346 9.8 205618.5 -0418.8  
  
5347 9.5 205619.0 -0419.7  
5348 8.6 205619.6 -0413.7  
5349 9.2 205622.9 -0438.2  
5350 9.8 205634.7 -0410.3  
5351 9.3 205638.7 -0414.1  
5352 9.2 205652.3 -0401.0  
5353 9.4 205722.9 -0444.2  
5354 9.3 205723.4 -0437.5  
5355 7.0 205755.6 -0456.0  
5356 9.5 205801.8 -0437.5

5357 9.3 205802.1 -0415.7  
5358 9.5 205804.6 -0400.8  
5359 9.5 205810.7 -0449.1  
5360 9.3 205845.8 -0402.4  
5361 9.8 205901.6 -0445.0  
5362 8.9 205939.1 -0411.4  
5363 9.8 210005.8 -0428.3  
5364 9.8 210011.9 -0409.7  
5365 9.8 210018.5 -0455.2  
5366 9.8 210032.3 -0452.8  
  
5367 9.8 210049.7 -0444.1  
5368 9.8 210051.0 -0419.9  
5369 9.5 210054.6 -0408.5  
5370 9.0 210117.0 -0400.2  
5371 8.0 210128.9 -0423.2  
5372 7.8 210144.1 -0428.6  
5373 9.1 210158.4 -0440.6  
5374 9.5 210200.2 -0440.0  
5375 9.5 210206.6 -0425.7  
5376 8.9 210241.8 -0400.9  
  
5377 9.3 210248.5 -0421.1  
5378 8.8 210251.7 -0429.9  
5379 9.5 210308.2 -0426.5  
5380 9.7 210319.8 -0440.9  
5381 9.8 210322.7 -0437.4  
5382 8.0 210340.4 -0443.7  
5383 9.7 210349.9 -0433.3  
5384 9.5 210353.6 -0434.5  
5385 9.0 210402.4 -0405.1  
5386 9.3 210412.4 -0432.8  
  
5387 9.7 210437.2 -0422.3  
5388 9.4 210438.6 -0415.6  
5389 8.3 210459.9 -0453.1  
5390 9.4 210522.4 -0400.8  
5391 9.0 210522.7 -0429.3  
5392 7.8 210538.2 -0452.2  
5393 8.7 210538.8 -0435.5  
5394 9.6 210633.9 -0449.1  
5395 9.1 210639.4 -0401.3  
5396 9.0 210645.1 -0424.5  
  
5397 10. 210653.4 -0430.1  
5398 9.0 210735.6 -0425.2  
5399 9.2 210824.7 -0421.5  
5400 9.5 210832.8 -0442.2  
5401 10. 210849.6 -0459.3  
5402 9.2 210849.6 -0425.7  
5403 9.3 210933.9 -0449.0  
5404 8.3 210935.4 -0450.7  
5405 9.5 210949.0 -0403.1  
5406 9.3 210953.8 -0429.8  
  
5407 9.7 210958.1 -0424.8  
5408 9.0 210959.3 -0433.1  
5409 9.3 211004.7 -0428.2  
5410 8.5 211017.2 -0405.4  
5411 9.3 211024.1 -0421.6  
5412 9.3 211025.4 -0428.1  
5413 7.8 211052.3 -0416.9  
5414 9.8 211057.8 -0428.8  
5415 9.7 211102.7 -0426.8  
5416 10. 211133.6 -0426.1  
  
5417 9.5 211144.3 -0416.5  
5418 9.3 211204.2 -0401.4  
5419 9.6 211204.2 -0419.6  
5420 9.5 211212.2 -0434.2  
5421 9.9 211224.4 -0443.0  
5422 9.5 211234.9 -0443.9  
5423 9.1 211244.0 -0406.3  
5424 9.5 211251.6 -0436.5  
5425 9.2 211257.5 -0404.3  
5426 9.6 211302.9 -0444.1  
  
5427 9.9 211303.3 -0447.7  
5428 9.5 211330.0 -0401.8  
5429 9.4 211333.8 -0430.2  
5430 9.5 211334.2 -0455.0  
5431 9.5 211336.5 -0401.2  
5432 9.5 211336.1 -0419.0  
5433 8.2 211416.9 -0447.0  
5434 9.9 211434.6 -0413.2  
5435 9.3 211455.0 -0453.7  
5436 9.4 211457.0 -0418.0  
  
5437 9.5 211514.8 -0427.6  
5438 8.2 211516.0 -0409.3  
5439 9.6 211548.1 -0459.3  
5440 9.4 211555.8 -0432.1  
5441 9.9 211611.5 -0449.5  
5442 9.6 211639.1 -0407.1  
5443 8.3 211705.3 -0457.5  
5444 6.7 211717.7 -0401.0  
5445 9.5 211741.9 -0426.2  
5446 5.6 211743.1 -0410.6

-04 5446 21h17m



-04 5447 21h18m

5447 9.9 211806.4 -0441.8  
5448 9.9 211829.5 -0452.5  
5449 9.9 211847.0 -0451.8  
5450 9.0 211852.4 -0448.3  
5451 9.5 211926.9 -0445.8  
5452 9.7 211941.4 -0456.9  
5453 9.5 211953.1 -0412.5  
5454 9.8 211954.7 -0446.4  
5455 9.3 212029.1 -0421.6  
5456 9.5 212030.0 -0427.5

5457 9.5 212052.5 -0451.4  
5458 8.8 212059.9 -0447.4  
5459 8.7 212134.5 -0451.4  
5460 8.5 212153.6 -0408.8  
5461 9.6 212216.1 -0409.0  
5462 9.7 212234.5 -0447.2  
5463 9.4 212243.6 -0407.2  
5464 9.4 212248.4 -0455.1  
5465 9.2 212251.3 -0435.2  
5466 9.4 212256.7 -0422.7

5467 9.3 212258.6 -0454.7  
5468 10.1 212311.1 -0414.5  
5469 9.0 212321.0 -0448.3  
5470 9.8 212324.6 -0401.2  
5471 9.5 212347.5 -0446.8  
5472 8.8 212348.8 -0431.0  
5473 9.0 212414.4 -0416.0  
5474 9.5 212416.6 -0406.7  
5475 9.6 212419.7 -0435.4  
5476 9.7 212420.3 -0430.0

5477 9.3 212433.1 -0454.7  
5478 9.5 212438.5 -0445.0  
5479 9.9 212508.4 -0443.4  
5480 10.1 212509.5 -0425.3  
5481 9.7 212520.6 -0457.1  
5482 9.8 212540.8 -0421.3  
5483 9.8 212606.3 -0423.1  
5484 9.8 212629.4 -0435.1  
5485 9.0 212637.6 -0405.5  
5486 9.5 212641.1 -0450.1

5487 7.5 212641.1 -0403.2  
5488 8.5 212729.8 -0422.3  
5489 6.0 212743.0 -0437.7  
5490 9.5 212754.1 -0459.7  
5491 9.4 212825.8 -0446.0  
5492 9.7 212842.3 -0448.0  
5493 9.0 212858.5 -0443.3  
5494 9.5 212903.3 -0429.8  
5495 10.1 212933.5 -0445.6  
5496 9.9 213012.1 -0414.4

5497 9.5 213020.2 -0413.6  
5498 9.0 213037.5 -0413.5  
5499 9.4 213035.0 -0443.0  
5500 9.8 213049.2 -0435.7  
5501 9.3 213056.5 -0419.0  
5502 9.2 213102.5 -0437.1  
5503 8.3 213105.8 -0412.9  
5504 7.7 213107.0 -0448.4  
5505 9.0 213115.5 -0437.5  
5506 9.8 213118.1 -0426.3

5507 10.1 213118.2 -0449.3  
5508 10.1 213151.2 -0405.3  
5509 8.7 213222.0 -0441.6  
5510 9.1 213245.7 -0407.2  
5511 9.5 213305.4 -0430.9  
5512 8.8 213308.5 -0412.6  
5513 10.1 213323.6 -0447.0  
5514 9.5 213342.5 -0446.5  
5515 10.1 213346.2 -0409.1  
5516 10.1 213426.2 -0415.7

5517 9.1 213502.6 -0400.5  
5518 9.3 213507.7 -0447.2  
5519 9.5 213525.4 -0436.1  
5520 9.6 213544.5 -0458.0  
5521 9.4 213558.0 -0412.6  
5522 9.5 213622.8 -0456.0  
5523 9.5 213645.6 -0418.3  
5524 9.5 213653.6 -0427.5  
5525 9.8 213654.2 -0454.9  
5526 8.9 213702.0 -0441.5

5527 9.5 213717.2 -0427.0  
5528 9.6 213743.4 -0418.5  
5529 9.7 213749.2 -0457.9  
5530 9.6 213749.5 -0434.6  
5531 9.5 213830.0 -0422.1  
5532 9.5 213840.7 -0409.3  
5533 9.5 213843.2 -0401.5  
5534 8.5 213849.3 -0447.5  
5535 9.8 213926.0 -0436.6  
5536 9.6 213930.4 -0427.0

5537 9.6 213942.3 -0405.1  
5538 9.4 213950.7 -0405.6  
5539 9.0 214034.1 -0438.8  
5540 8.7 214117.3 -0415.9  
5541 9.3 214140.5 -0431.2  
5542 9.8 214154.6 -0448.4  
5543 9.4 214155.5 -0431.9  
5544 9.6 214204.9 -0457.8  
5545 10.1 214208.0 -0435.2  
5546 9.5 214215.1 -0440.1

5547 9.3 214223.0 -0436.5  
5548 8.7 214233.9 -0458.5  
5549 9.0 214233.9 -0400.5  
5550 9.4 214252.1 -0419.3  
5551 8.8 214252.5 -0436.6  
5552 9.8 214259.9 -0406.7  
5553 9.5 214260.1 -0437.1  
5554 9.2 214326.2 -0431.5  
5555 9.1 214327.3 -0432.0  
5556 9.8 214327.8 -0451.6

5557 9.2 214345.9 -0421.7  
5558 9.3 214359.3 -0430.6  
5559 9.5 214414.4 -0414.1  
5560 9.8 214422.0 -0433.5  
5561 9.9 214445.7 -0423.7  
5562 9.7 214452.7 -0412.9  
5563 8.8 214506.6 -0423.6  
5564 7.2 214511.0 -0440.2  
5565 9.3 214533.6 -0448.5  
5566 9.4 214543.7 -0451.2

5567 9.7 214628.1 -0417.7  
5568 5.7 214635.9 -0457.2  
5569 9.3 214709.7 -0453.3  
5570 8.5 214725.2 -0453.9  
5571 10.1 214728.6 -0437.6  
5572 9.1 214735.6 -0435.8  
5573 9.2 214751.0 -0422.9  
5574 8.8 214758.1 -0436.8  
5575 9.0 214802.3 -0454.1  
5576 9.2 214804.4 -0442.3

5577 9.5 214811.5 -0421.4  
5578 9.2 214931.2 -0444.3  
5579 9.8 214953.4 -0453.5  
5580 10.1 214943.4 -0420.2  
5581 8.7 214944.8 -0434.3  
5582 9.6 215002.7 -0445.4  
5583 9.0 215015.2 -0401.2  
5584 8.7 215026.0 -0425.6  
5585 7.8 215035.4 -0410.8  
5586 9.9 215039.5 -0426.5

5587 9.0 215041.4 -0400.6  
5588 9.7 215101.0 -0425.4  
5589 9.8 215128.1 -0431.1  
5590 9.6 215138.9 -0441.5  
5591 10.1 215145.6 -0414.7  
5592 10.1 215207.8 -0451.3  
5593 9.9 215230.5 -0422.1  
5594 9.5 215239.2 -0438.2  
5595 9.8 215239.5 -0418.7  
5596 9.8 215342.1 -0441.3

5597 8.6 215416.0 -0417.6  
5598 9.3 215432.6 -0434.0  
5599 9.1 215437.0 -0408.4  
5600 9.3 215442.4 -0409.2  
5601 9.5 215457.7 -0443.0  
5602 8.9 215504.5 -0401.9  
5603 8.9 215521.3 -0410.1  
5604 9.3 215559.0 -0422.6  
5605 9.9 215637.2 -0411.2  
5606 9.4 215655.5 -0425.7

5607 9.8 215708.7 -0439.6  
5608 9.8 215748.8 -0411.2  
5609 9.8 215750.6 -0433.9  
5610 9.9 215758.2 -0444.1  
5611 9.8 215804.5 -0422.7  
5612 9.4 215849.7 -0443.0  
5613 9.3 215850.6 -0449.1  
5614 9.4 215941.4 -0457.6  
5615 9.0 215952.3 -0447.4  
5616 9.0 215954.9 -0451.2

5617 7.5 220040.2 -0414.3  
5618 9.0 220127.1 -0422.9  
5619 9.5 220134.7 -0439.2  
5620 8.5 220225.9 -0450.8  
5621 9.4 220235.4 -0427.7  
5622 9.6 220238.6 -0456.7  
5623 6.8 220248.2 -0436.1  
5624 9.1 220250.0 -0408.5  
5625 6.0 220300.4 -0458.8  
5626 9.0 220320.7 -0427.8

5627 10.1 220332.3 -0408.6  
5628 9.5 220436.6 -0415.7  
5629 9.6 220439.6 -0458.7  
5630 9.8 220451.4 -0450.6  
5631 9.3 220502.9 -0429.6  
5632 9.6 220517.8 -0447.8  
5633 9.7 220531.0 -0457.8  
5634 9.5 220536.6 -0407.9  
5635 8.8 220540.1 -0435.3  
5636 9.1 220601.0 -0452.4

5637 8.5 220610.2 -0429.3  
5638 9.9 220630.1 -0420.2  
5639 9.5 220709.8 -0425.0  
5640 8.5 220721.8 -0440.0  
5641 9.5 220740.9 -0452.5  
5642 9.6 220757.6 -0409.3  
5643 9.4 220821.3 -0441.5  
5644 9.7 220837.8 -0412.8  
5645 9.0 220846.3 -0439.1  
5646 9.5 220910.4 -0449.6

5647 8.7 221012.8 -0403.9  
5648 8.6 221017.1 -0458.6  
5649 9.6 221032.0 -0432.5  
5650 9.7 221032.6 -0421.0  
5651 9.5 221044.8 -0425.6  
5652 9.8 221057.6 -0410.2  
5653 9.5 221154.1 -0401.3  
5654 9.2 221205.1 -0444.8  
5655 7.8 221216.9 -0447.3  
5656 8.5 221300.4 -0453.5

5657 10.1 221302.4 -0412.5  
5658 9.0 221307.8 -0414.8  
5659 9.4 221313.3 -0459.5  
5660 9.2 221319.7 -0410.2  
5661 9.1 221328.1 -0417.9  
5662 8.3 221430.8 -0431.7  
5663 8.0 221506.2 -0428.1  
5664 9.5 221530.2 -0406.6  
5665 9.1 221539.4 -0414.8  
5666 9.9 221551.3 -0413.1

5667 9.0 221603.9 -0434.3  
5668 9.8 221628.7 -0433.7  
5669 9.0 221640.4 -0444.2  
5670 9.6 221644.1 -0455.2  
5671 9.1 221722.5 -0414.4  
5672 9.5 221722.7 -0440.6  
5673 9.5 221728.6 -0454.5  
5674 9.6 221824.5 -0419.0  
5675 9.7 221843.7 -0449.9  
5676 9.6 221848.3 -0445.1

5677 10.1 221851.4 -0413.0  
5678 9.3 221928.6 -0402.5  
5679 9.0 221933.1 -0400.5  
5680 9.0 221938.5 -0410.4  
5681 9.4 222030.1 -0437.2  
5682 9.2 222046.4 -0438.2  
5683 8.8 222152.2 -0455.6  
5684 9.5 222213.7 -0430.2  
5685 9.5 222252.3 -0459.7  
5686 9.4 222310.3 -0431.2

5687 9.2 222315.9 -0432.8  
5688 9.5 222349.0 -0436.0  
5689 9.5 222400.7 -0401.2  
5690 9.1 222420.3 -0458.3  
5691 9.5 222422.3 -0430.0  
5692 9.2 222436.3 -0454.9  
5693 9.4 222441.5 -0445.2  
5694 8.3 222442.1 -0447.9  
5695 9.0 222507.5 -0452.0  
5696 9.1 222532.5 -0453.7

5697 9.5 222536.1 -0407.7  
5698 9.4 222545.9 -0408.5  
5699 10.1 222547.3 -0422.7  
5700 9.8 222550.6 -0400.3  
5701 9.7 222601.6 -0422.5  
5702 9.6 222612.4 -0401.7  
5703 9.0 222650.5 -0441.7  
5704 9.5 222652.2 -0408.9  
5705 7.8 222708.1 -0403.1  
5706 8.5 222711.4 -0421.0

5707 8.5 222742.5 -0441.7  
5708 9.4 222835.9 -0436.7  
5709 9.4 222843.3 -0422.7  
5710 8.7 222844.0 -0445.9  
5711 9.7 222902.8 -0442.0  
5712 10.1 222904.7 -0426.8  
5713 9.5 222931.7 -0401.6  
5714 9.5 222932.0 -0457.1  
5715 9.3 222939.0 -0444.5  
5716 5.3 223014.2 -0458.4

-04 5806 22h54m

5717 9.0 223047.8 -0427.4  
5718 9.1 223103.9 -0431.4  
5719 9.0 223104.7 -0436.1  
5720 10.1 223130.9 -0437.1  
5721 8.5 223144.9 -0421.7  
5722 9.4 223150.8 -0416.1  
5723 9.1 223209.2 -0416.4  
5724 9.5 223229.6 -0452.9  
5725 9.4 223300.5 -0434.1  
5726 9.5 223302.2 -0419.3

5727 9.5 223310.7 -0412.0  
5728 6.7 223317.9 -0418.4  
5729 9.9 223338.8 -0410.6  
5730 9.2 223347.9 -0457.6  
5731 9.4 223350.5 -0437.1  
5732 9.5 223357.4 -0427.9  
5733 7.7 223436.2 -0413.9  
5734 9.0 223442.6 -0447.5  
5735 9.5 223503.8 -0412.3  
5736 9.8 223516.0 -0400.8

5737 9.3 223517.5 -0417.2  
5738 9.1 223520.7 -0402.5  
5739 9.5 223527.1 -0457.0  
5740 9.1 223529.4 -0411.0  
5741 9.8 223529.6 -0457.2  
5742 9.4 223536.8 -0428.9  
5743 9.3 223544.2 -0411.5  
5744 10.1 223629.1 -0456.5  
5745 9.5 223634.3 -0404.1  
5746 9.3 223703.8 -0420.8

5747 9.5 223716.4 -0444.3  
5748 9.5 223717.8 -0444.1  
5749 9.4 223747.4 -0424.0  
5750 9.3 223750.4 -0425.3  
5751 9.2 223756.0 -0435.8  
5752 9.6 223816.5 -0432.0  
5753 9.9 223825.9 -0431.4  
5754 9.8 223851.2 -0454.3  
5755 10.1 223930.9 -0425.1  
5756 9.8 224013.6 -0437.5

5757 7.0 224021.1 -0458.7  
5758 9.5 224022.8 -0415.8  
5759 8.9 224032.5 -0459.7  
5760 9.5 224035.0 -0438.2  
5761 9.4 224054.5 -0429.6  
5762 9.3 224123.6 -0459.1  
5763 9.1 224126.8 -0405.9  
5764 8.1 224131.3 -0408.8  
5765 10.1 224141.8 -0415.7  
5766 9.1 224159.8 -0424.3

5767 9.1 224222.8 -0407.1  
5768 9.1 224232.1 -0452.0  
5769 10.1 224242.7 -0442.2  
5770 9.1 224258.5 -0422.5  
5771 9.8 224259.5 -0454.9  
5772 9.4 224316.4 -0421.3  
5773 9.5 224324.6 -0437.1  
5774 10.1 224332.1 -0447.9  
5775 8.8 224354.2 -0400.2  
5776 10.1 224355.8 -0458.3

5777 9.6 224424.3 -0448.3  
5778 9.8 224516.4 -0402.9  
5779 9.5 224520.9 -0424.2  
5780 9.4 224526.2 -0444.0  
5781 9.1 224527.1 -0454.2  
5782 10.1 224541.9 -0423.8  
5783 9.5 224542.2 -0442.2  
5784 9.5 224511.8 -0449.2  
5785 9.4 224546.4 -0434.2  
5786 9.5 224705.1 -0450.2

5787 9.1 224722.8 -0402.5  
5788 9.6 224815.3 -0439.1  
5789 9.5 224821.7 -0440.8  
5790 9.4 224841.1 -0413.2  
5791 8.3 224911.0 -0417.6  
5792 9.5 224922.3 -0454.5  
5793 7.0 224937.6 -0400.9  
5794 9.8 225011.8 -0401.6  
5795 8.0 225022.6 -0425.6  
5796 8.6 225109.1 -0431.9

5797 9.0 225153.6 -0414.4  
5798 9.7 225218.1 -0441.7  
5799 8.8 225230.6 -0434.6  
5800 9.3 225246.4 -0405.8  
5801 9.8 225303.6 -0459.7  
5802 9.3 225311.7 -0443.5  
5803 9.5 225408.6 -0454.0  
5804 7.8 225418.0 -0437.2  
5805 9.4 225421.8 -0414.7  
5806 9.5 225423.6 -0412.0



-04 5807 22h54m

5807 9.5 225428.1 -0409.3  
5808 9.0 225435.5 -0437.3  
5809 9.4 225507.1 -0446.2  
5810 9.5 225512.0 -0432.8  
5811 9.0 225529.0 -0435.9  
5812 9.5 225551.0 -0429.4  
5813 9.1 225643.4 -0434.2  
5814 10. 225704.4 -0420.9  
5815 8.9 225710.0 -0416.2  
5816 9.3 225712.3 -0453.0  
  
5817 9.1 225722.1 -0431.9  
5818 9.9 225726.4 -0447.9  
5819 9.5 225731.4 -0422.7  
5820 9.4 225807.8 -0428.0  
5821 10. 225808.8 -0420.9  
5822 8.6 225910.9 -0458.9  
5823 9.5 225927.0 -0431.2  
5824 9.3 225938.0 -0420.8  
5825 9.7 230006.1 -0437.9  
5826 10. 230006.9 -0458.6  
  
5827 9.3 230022.0 -0417.8  
5828 9.4 230033.0 -0414.1  
5829 9.3 230101.2 -0452.0  
5830 9.0 230146.1 -0443.1  
5831 9.8 230146.8 -0455.2  
5832 9.8 230151.0 -0429.7  
5833 8.5 230207.7 -0444.9  
5834 9.8 230225.5 -0424.8  
5835 10. 230228.9 -0413.8  
5836 9.5 230310.1 -0437.6  
  
5837 8.9 230320.3 -0418.1  
5838 10. 230327.7 -0411.2  
5839 9.5 230340.5 -0430.0  
5840 10. 230350.0 -0458.8  
5841 8.3 230443.7 -0443.4  
5842 10. 230500.9 -0434.2  
5843 9.6 230603.3 -0443.6  
5844 9.0 230610.1 -0436.2  
5845 9.2 230626.2 -0436.0  
5846 9.5 230641.6 -0404.4  
  
5847 9.5 230708.3 -0442.2  
5848 9.5 230737.6 -0455.6  
5849 9.5 230749.0 -0419.0  
5850 9.1 230757.7 -0417.0  
5851 9.8 230759.0 -0429.7  
5852 5.3 230806.4 -0416.9  
5853 9.0 230809.1 -0456.6  
5854 9.8 230829.7 -0456.6  
5855 9.8 230848.6 -0433.1  
5856 9.3 230900.7 -0412.6  
  
5857 9.8 230931.3 -0432.0  
5858 10. 230947.6 -0456.9  
5859 10. 230958.1 -0408.0  
5860 9.5 231000.1 -0429.3  
5861 9.5 231031.3 -0451.7  
5862 9.1 231036.7 -0410.5  
5863 10. 231118.9 -0459.9  
5864 9.3 231130.1 -0432.9  
5865 9.1 231140.0 -0424.9  
5866 10. 231222.0 -0437.7  
  
5867 10. 231243.0 -0432.4  
5868 6.5 231244.8 -0442.4  
5869 9.8 231247.1 -0400.6  
5870 9.0 231257.6 -0409.1  
5871 9.7 231320.4 -0414.5  
5872 9.5 231352.1 -0411.6  
5873 9.5 231402.6 -0407.4  
5874 9.5 231405.5 -0420.6  
5875 9.5 231506.3 -0421.4  
5876 9.3 231512.1 -0404.3  
  
5877 9.5 231528.3 -0448.4  
5878 9.5 231530.1 -0420.4  
5879 8.3 231555.0 -0400.4  
5880 9.3 231556.7 -0455.5  
5881 9.0 231636.4 -0426.5  
5882 9.0 231720.2 -0425.6  
5883 9.6 231819.1 -0416.5  
5884 9.6 231912.9 -0439.5  
5885 9.5 231941.7 -0406.4  
5886 9.2 231958.9 -0421.0  
  
5887 9.8 232105.2 -0423.6  
5888 9.7 232120.2 -0439.7  
5889 9.5 232124.0 -0452.9  
5890 9.5 232154.2 -0423.6  
5891 9.0 232244.7 -0407.3  
5892 9.5 232247.1 -0401.7  
5893 9.1 232251.3 -0439.0  
5894 9.5 232301.5 -0453.5  
5895 8.9 232327.4 -0455.1  
5896 6.8 232402.0 -0452.6

5897 8.8 232403.8 -0410.3  
5898 10. 232433.1 -0416.4  
5899 10. 232508.1 -0433.8  
5900 9.7 232521.5 -0416.8  
5901 10. 232523.6 -0418.4  
5902 9.9 232551.7 -0425.7  
5903 9.5 232555.5 -0453.4  
5904 9.6 232612.4 -0446.5  
5905 9.8 232631.9 -0447.7  
5906 10. 232632.6 -0439.3  
  
5907 9.2 232636.1 -0403.8  
5908 9.5 232651.6 -0446.8  
5909 9.8 232709.1 -0412.6  
5910 9.7 232724.5 -0429.8  
5911 8.9 232738.9 -0411.0  
5912 7.8 232746.5 -0419.3  
5913 8.9 232758.9 -0414.8  
5914 9.7 232822.9 -0459.4  
5915 8.7 232855.3 -0414.6  
5916 9.7 233022.6 -0414.9  
  
5917 8.5 233042.8 -0433.5  
5918 9.3 233106.5 -0451.7  
5919 9.6 233113.7 -0401.3  
5920 9.6 233120.5 -0446.0  
5921 9.5 233131.0 -0446.7  
5922 10. 233149.3 -0439.2  
5923 9.4 233159.3 -0416.6  
5924 9.4 233210.4 -0437.7  
5925 9.8 233234.3 -0425.9  
5926 9.0 233236.9 -0456.5  
  
5927 9.3 233238.1 -0450.9  
5928 9.5 233252.5 -0449.1  
5929 9.8 233303.3 -0423.3  
5930 9.8 233311.8 -0421.1  
5931 10. 233320.1 -0420.1  
5932 9.5 233329.4 -0425.8  
5933 9.5 233344.9 -0456.4  
5934 9.1 233446.3 -0424.5  
5935 8.8 233509.0 -0421.6  
5936 9.5 233521.5 -0438.8  
  
5937 9.3 233537.8 -0422.3  
5938 9.5 233541.5 -0440.2  
5939 8.5 233608.8 -0407.2  
5940 9.3 233612.3 -0422.3  
5941 9.3 233626.9 -0424.3  
5942 9.4 233640.6 -0459.3  
5943 9.5 233703.9 -0430.8  
5944 9.7 233731.3 -0424.6  
5945 9.5 233745.4 -0430.6  
5946 9.5 233821.8 -0405.1  
  
5947 9.3 233828.2 -0450.2  
5948 9.0 233838.9 -0406.7  
5949 8.8 233841.4 -0412.8  
5950 9.5 233855.0 -0454.1  
5951 9.4 233856.9 -0415.4  
5952 9.4 233919.7 -0413.0  
5953 9.5 233932.3 -0403.4  
5954 9.5 233945.3 -0442.4  
5955 8.5 233956.6 -0442.4  
5956 9.5 234011.4 -0421.0  
  
5957 8.5 234014.1 -0420.3  
5958 9.4 234044.0 -0417.4  
5959 9.0 234119.5 -0426.8  
5960 9.5 234133.1 -0444.4  
5961 9.0 234229.4 -0423.6  
5962 9.6 234250.7 -0415.0  
5963 9.5 234259.3 -0408.5  
5964 9.1 234335.5 -0422.0  
5965 8.0 234402.4 -0412.5  
5966 9.8 234405.3 -0400.9  
  
5967 8.8 234407.1 -0419.2  
5968 8.8 234407.6 -0417.0  
5969 9.6 234447.1 -0439.6  
5970 9.4 234450.0 -0433.1  
5971 9.1 234456.4 -0412.1  
5972 9.4 234528.8 -0416.8  
5973 9.8 234631.9 -0403.8  
5974 9.6 234645.4 -0426.3  
5975 9.1 234709.7 -0421.5  
5976 8.8 234715.8 -0415.6  
  
5977 9.7 234732.1 -0456.7  
5978 9.7 234803.4 -0430.0  
5979 10. 234826.6 -0456.5  
5980 9.4 234845.7 -0446.7  
5981 9.0 234848.4 -0418.1  
5982 9.5 234855.3 -0401.8  
5983 9.4 234920.9 -0401.9  
5984 9.8 234947.8 -0436.9  
5985 10. 235013.5 -0441.5  
5986 9.4 235018.1 -0434.2

5987 9.4 235028.0 -0424.6  
5988 10. 235030.9 -0412.9  
5989 8.7 235043.2 -0447.1  
5990 10. 235045.6 -0441.1  
5991 9.5 235055.9 -0453.4  
5992 8.5 235058.0 -0409.5  
5993 9.4 235109.3 -0455.6  
5994 9.8 235111.7 -0408.0  
5995 9.9 235111.9 -0454.3  
5996 5.2 235115.0 -0421.5  
  
5997 9.6 235127.2 -0434.4  
5998 9.4 235143.2 -0439.1  
5999 9.3 235150.3 -0401.9  
6000 9.6 235240.8 -0411.1  
6001 9.9 235248.5 -0451.7  
6002 10. 235256.4 -0429.0  
6003 8.3 235305.9 -0406.7  
6004 9.8 235311.4 -0430.0  
6005 9.5 235359.3 -0403.6  
6006 9.2 235435.8 -0405.0  
  
6007 9.2 235516.1 -0412.3  
6008 10. 235521.5 -0437.5  
6009 9.5 235530.4 -0411.7  
6010 9.8 235531.5 -0419.4  
6011 9.8 235538.5 -0417.9  
6012 10. 235546.6 -0443.3  
6013 8.0 235555.2 -0457.2  
6014 9.0 235619.4 -0413.5  
6015 9.4 235710.9 -0457.0  
6016 9.8 235718.9 -0413.9  
  
6017 9.6 235721.6 -0425.9  
6018 9.2 235743.8 -0450.6  
6019 7.8 235800.0 -0439.3  
6020 9.8 235822.3 -0420.0  
6021 9.6 235824.0 -0405.6  
6022 9.3 235904.7 -0439.7  
6023 9.5 235908.6 -0433.7  
6024 9.3 235914.6 -0434.7  
6025 8.4 235930.0 -0425.8  
6026 9.4 235930.2 -0448.9  
  
1 9.3 00000.6 -0508.0  
2 8.7 00011.1 -0520.9  
3 8.6 00026.2 -0539.8  
4 9.4 00044.4 -0556.4  
5 10. 00104.0 -0507.2  
6 9.0 00114.2 -0539.0  
7 10. 00138.9 -0543.5  
8 10. 00145.4 -0540.7  
9 10. 00148.8 -0504.7  
10 9.2 00204.6 -0528.9  
  
11 9.9 00221.0 -0550.7  
12 9.4 00247.3 -0544.0  
13 10. 00247.9 -0512.8  
14 9.4 00253.7 -0536.1  
15 9.5 00313.2 -0530.3  
16 9.7 00323.8 -0501.2  
17 8.2 00410.4 -0552.4  
18 9.5 00411.6 -0502.1  
19 9.8 00453.2 -0539.4  
20 9.9 00507.7 -0529.3  
  
21 9.8 00536.3 -0531.1  
22 10. 00546.5 -0540.6  
23 8.9 00602.2 -0527.1  
24 9.8 00616.1 -0500.4  
25 9.9 00733.3 -0535.5  
26 9.1 00759.2 -0520.1  
27 8.7 00809.7 -0549.0  
28 10. 00811.7 -0513.5  
29 9.2 00824.2 -0517.7  
30 10. 00852.5 -0556.7  
  
31 9.1 00913.7 -0547.3  
32 9.8 00927.8 -0518.5  
33 9.7 00934.1 -0540.4  
34 9.5 00939.7 -0540.3  
35 8.5 00950.8 -0515.2  
36 9.6 01047.1 -0505.3  
37 9.5 01108.3 -0536.1  
38 9.5 01141.7 -0504.3  
39 9.8 01144.2 -0531.4  
40 9.0 01147.7 -0551.3  
  
41 10. 01209.6 -0553.0  
42 9.4 01312.3 -0508.9  
43 9.3 01316.5 -0557.1  
44 9.7 01340.1 -0549.5  
45 9.9 01355.3 -0516.7  
46 9.5 01405.3 -0521.6  
47 9.5 01425.3 -0513.3  
48 9.8 01442.8 -0514.0  
49 7.0 01450.1 -0559.9  
50 9.5 01510.3 -0534.3

51 9.0 01515.3 -0518.6  
52 9.8 01547.8 -0514.8  
53 9.2 01549.9 -0522.4  
54 9.5 01607.2 -0504.8  
55 9.4 01614.8 -0508.8  
56 8.6 01650.3 -0518.2  
57 9.8 01704.9 -0547.6  
58 7.8 01707.8 -0527.0  
59 9.0 01725.6 -0504.5  
60 8.5 01735.4 -0519.1  
  
61 8.9 01753.4 -0510.8  
62 10. 01812.5 -0548.8  
63 8.8 01935.9 -0513.0  
64 7.0 01941.4 -0548.3  
65 9.5 01955.9 -0543.1  
66 9.6 02003.1 -0523.0  
67 10. 02045.6 -0509.3  
68 9.8 02114.4 -0515.7  
69 8.8 02116.9 -0537.5  
70 9.1 02207.4 -0542.8  
  
71 9.5 02234.6 -0559.9  
72 9.9 02246.8 -0505.0  
73 10. 02314.9 -0513.3  
74 9.8 02408.5 -0536.8  
75 8.0 02409.0 -0504.9  
76 9.8 02409.4 -0543.7  
77 8.6 02442.5 -0558.8  
78 9.0 02457.0 -0516.4  
79 10. 02503.0 -0538.3  
80 9.8 02515.5 -0538.0  
  
81 9.8 02533.6 -0547.7  
82 9.5 02551.8 -0545.5  
83 7.0 02705.5 -0520.6  
84 9.3 02706.1 -0520.6  
85 9.3 02711.4 -0523.9  
86 9.4 02730.1 -0558.8  
87 8.9 02835.2 -0550.7  
88 9.2 02843.5 -0500.7  
89 10. 02924.6 -0553.8  
90 9.5 02953.1 -0558.6  
  
91 9.1 02957.9 -0507.6  
92 10. 02959.7 -0532.5  
93 10. 03002.1 -0527.6  
94 9.0 03026.0 -0521.2  
95 8.8 03217.9 -0542.7  
96 10. 03219.2 -0503.2  
97 9.7 03229.1 -0551.9  
98 10. 03240.8 -0510.5  
99 9.8 03259.2 -0548.5  
100 9.0 03314.1 -0508.5  
  
101 6.3 03319.1 -0508.9  
102 9.4 03321.5 -0526.6  
103 9.7 03326.9 -0543.8  
104 9.1 03330.1 -0502.7  
105 8.7 03334.0 -0521.8  
106 9.8 03358.6 -0530.9  
107 8.3 03407.1 -0501.8  
108 9.5 03417.8 -0515.3  
109 10. 03421.7 -0552.5  
110 9.5 03439.5 -0522.5  
  
111 9.8 03520.8 -0520.1  
112 9.8 03550.2 -0555.4  
113 9.8 03612.0 -0529.2  
114 10. 03631.1 -0512.2  
115 10. 03655.7 -0558.0  
116 8.5 03656.6 -0511.3  
117 9.7 03715.7 -0552.1  
118 9.7 03719.7 -0537.8  
119 8.8 03757.3 -0548.2  
120 6.5 03800.6 -0525.3  
  
121 9.8 03845.6 -0546.0  
122 9.5 03855.8 -0518.1  
123 9.8 03916.2 -0546.8  
124 7.9 03917.6 -0512.5  
125 9.4 03949.7 -0552.4  
126 9.5 04010.6 -0513.9  
127 9.5 04011.2 -0550.1  
128 9.2 04015.7 -0517.7  
129 9.8 04030.6 -0502.5  
130 9.3 04034.3 -0559.0  
  
131 9.8 04043.1 -0525.5  
132 9.8 04046.2 -0534.1  
133 10. 04203.2 -0532.5  
134 8.5 04300.8 -0555.1  
135 9.9 04325.1 -0512.4  
136 9.2 04326.6 -0505.3  
137 9.6 04334.7 -0540.7  
138 7.2 04346.1 -0549.4  
139 8.5 04349.9 -0558.3  
140 9.3 04401.6 -0528.8

-05 140 0h44m



-05 141 0h44m

141 9.8 04402.3 -0552.7  
142 9.5 04427.4 -0503.6  
143 9.8 04447.7 -0559.5  
144 9.6 04504.2 -0521.8  
145 9.5 04504.4 -0554.6  
146 9.4 04527.4 -0546.6  
147 6.5 04617.7 -0518.4  
148 9.3 04626.2 -0515.0  
149 10. 04724.8 -0552.2  
150 9.2 04754.7 -0524.9  
  
151 9.8 04801.3 -0526.4  
152 10. 04804.0 -0521.8  
153 9.8 04813.8 -0529.1  
154 9.4 04824.5 -0557.5  
155 9.3 04826.2 -0519.0  
156 9.8 04859.9 -0553.8  
157 9.5 04918.8 -0542.4  
158 10. 04935.9 -0539.9  
159 9.1 05003.9 -0506.7  
160 8.5 05031.7 -0501.8  
  
161 9.3 05054.4 -0540.1  
162 9.4 05137.2 -0525.4  
163 8.8 05211.9 -0553.0  
164 10. 05213.9 -0539.5  
165 8.3 05219.8 -0514.5  
166 7.8 05221.2 -0506.1  
167 9.5 05222.5 -0556.0  
168 8.3 05231.5 -0558.2  
169 10. 05247.7 -0534.0  
170 10. 05256.8 -0514.0  
  
171 7.5 05339.8 -0525.6  
172 9.0 05355.3 -0511.8  
173 9.0 05407.8 -0513.1  
174 9.7 05451.3 -0528.2  
175 9.5 05535.0 -0531.3  
176 9.5 05541.7 -0502.7  
177 5.3 05541.9 -0536.7  
178 9.8 05620.6 -0542.2  
179 9.0 05627.0 -0501.7  
180 9.4 05627.0 -0522.4  
  
181 10. 05726.1 -0518.8  
182 10. 05739.0 -0501.3  
183 10. 05754.1 -0559.2  
184 9.9 05759.1 -0558.2  
185 9.2 05837.9 -0542.8  
186 8.2 05838.2 -0504.5  
187 9.8 05858.0 -0505.5  
188 10. 05906.6 -0558.1  
189 8.0 05924.8 -0525.3  
190 7.8 05937.2 -0540.9  
  
191 10. 05954.9 -0534.3  
192 8.0 06022.9 -0531.3  
193 9.5 06025.4 -0521.7  
194 9.5 06101.4 -0508.1  
195 8.9 06131.9 -0529.6  
196 9.5 06139.5 -0544.2  
197 10. 06141.1 -0508.6  
198 8.3 06156.0 -0545.0  
199 8.5 06219.0 -0548.1  
200 9.0 06308.0 -0544.3  
  
201 9.0 06316.9 -0507.2  
202 7.3 06322.9 -0536.8  
203 9.7 06325.4 -0510.6  
204 9.8 06335.1 -0535.9  
205 9.0 06357.0 -0512.8  
206 10. 06407.7 -0521.0  
207 8.5 06427.9 -0515.7  
208 9.2 06512.6 -0545.1  
209 9.5 06548.1 -0538.8  
210 7.3 06631.0 -0536.9  
  
211 9.3 06636.2 -0558.1  
212 9.7 06649.7 -0508.1  
213 9.3 06649.7 -0526.4  
214 9.7 06703.7 -0511.7  
215 7.5 06710.6 -0548.6  
216 10. 06728.0 -0531.5  
217 10. 06807.0 -0509.7  
218 9.0 06817.9 -0522.2  
219 9.6 06825.3 -0508.0  
220 9.9 06826.9 -0531.6  
  
221 8.4 06848.4 -0543.0  
222 9.5 06857.8 -0512.7  
223 8.2 06910.3 -0537.5  
224 10. 06911.7 -0521.7  
225 9.0 06918.0 -0534.6  
226 8.5 06939.4 -0505.7  
227 10. 06942.6 -0534.6  
228 10. 06945.5 -0512.7  
229 9.5 06945.5 -0539.5  
230 9.8 06945.8 -0558.8

231 9.1 06945.8 -0525.9  
232 9.8 06945.8 -0509.0  
233 9.4 06945.8 -0557.9  
234 9.2 06945.8 -0525.3  
235 9.2 06945.8 -0529.8  
236 10. 06945.8 -0547.4  
237 8.9 06945.8 -0535.6  
238 8.3 06945.8 -0540.4  
239 10. 06945.8 -0540.0  
240 9.5 06945.8 -0543.0  
  
241 9.8 06945.8 -0553.6  
242 9.7 06945.8 -0548.2  
243 9.5 06945.8 -0527.5  
244 9.5 06945.8 -0520.7  
245 9.5 06945.8 -0557.0  
246 9.4 06945.8 -0559.0  
247 8.2 06945.8 -0519.4  
248 9.1 06945.8 -0535.4  
249 9.2 06945.8 -0541.9  
250 9.1 06945.8 -0541.7  
  
251 10. 06945.8 -0536.4  
252 9.5 06945.8 -0524.1  
253 9.7 06945.8 -0552.2  
254 8.5 06945.8 -0547.0  
255 9.5 06945.8 -0503.1  
256 9.6 06945.8 -0535.2  
257 9.7 06945.8 -0508.7  
258 7.8 06945.8 -0525.3  
259 9.7 06945.8 -0520.4  
260 9.4 06945.8 -0531.9  
  
261 8.8 06945.8 -0513.6  
262 9.8 06945.8 -0530.1  
263 10. 06945.8 -0516.5  
264 9.9 06945.8 -0540.7  
265 9.5 06945.8 -0545.9  
266 9.0 06945.8 -0532.5  
267 9.1 06945.8 -0552.3  
268 9.1 06945.8 -0518.9  
269 9.5 06945.8 -0535.6  
270 10. 06945.8 -0526.5  
  
271 7.2 06945.8 -0542.3  
272 10. 06945.8 -0559.5  
273 8.3 06945.8 -0542.3  
274 9.8 06945.8 -0531.3  
275 9.2 06945.8 -0507.0  
276 9.5 06945.8 -0545.6  
277 9.8 06945.8 -0539.4  
278 9.5 06945.8 -0528.4  
279 9.5 06945.8 -0525.4  
280 9.5 06945.8 -0555.4  
  
281 9.0 06945.8 -0519.9  
282 9.1 06945.8 -0554.4  
283 9.8 06945.8 -0538.1  
284 9.4 06945.8 -0502.6  
285 8.0 06945.8 -0549.3  
286 10. 06945.8 -0541.6  
287 8.6 06945.8 -0503.0  
288 9.3 06945.8 -0544.6  
289 9.8 06945.8 -0521.6  
290 9.2 06945.8 -0529.3  
  
291 9.6 06945.8 -0547.4  
292 9.5 06945.8 -0510.8  
293 9.8 06945.8 -0533.6  
294 9.0 06945.8 -0542.6  
295 9.8 06945.8 -0510.5  
296 8.4 06945.8 -0512.0  
297 8.7 06945.8 -0518.7  
298 9.6 06945.8 -0552.8  
299 9.6 06945.8 -0556.2  
300 8.5 06945.8 -0540.8  
  
301 9.1 06945.8 -0503.9  
302 9.5 06945.8 -0532.8  
303 10. 06945.8 -0547.9  
304 8.7 06945.8 -0504.3  
305 8.8 06945.8 -0551.2  
306 9.0 06945.8 -0501.4  
307 9.8 06945.8 -0508.7  
308 9.5 06945.8 -0500.6  
309 6.5 06945.8 -0529.9  
310 9.5 06945.8 -0550.0  
  
311 9.7 06945.8 -0545.5  
312 10. 06945.8 -0519.1  
313 9.5 06945.8 -0541.2  
314 9.4 06945.8 -0542.0  
315 9.9 06945.8 -0531.0  
316 9.8 06945.8 -0525.7  
317 9.6 06945.8 -0540.2  
318 9.9 06945.8 -0546.3  
319 9.5 06945.8 -0508.4  
320 9.5 06945.8 -0503.2

321 9.5 06945.8 -0512.6  
322 9.2 06945.8 -0507.9  
323 8.5 06945.8 -0535.1  
324 9.0 06945.8 -0555.0  
325 9.2 06945.8 -0558.5  
326 9.8 06945.8 -0549.4  
327 8.6 06945.8 -0540.9  
328 10. 06945.8 -0504.9  
329 9.8 06945.8 -0536.5  
330 9.4 06945.8 -0540.7  
  
331 9.7 06945.8 -0549.7  
332 9.6 06945.8 -0512.8  
333 8.7 06945.8 -0530.5  
334 9.5 06945.8 -0533.6  
335 9.5 06945.8 -0533.3  
336 8.6 06945.8 -0552.2  
337 10. 06945.8 -0554.3  
338 9.9 06945.8 -0550.8  
339 9.7 06945.8 -0506.8  
340 9.1 06945.8 -0553.6  
  
341 9.5 06945.8 -0514.7  
342 9.4 06945.8 -0537.8  
343 9.5 06945.8 -0533.4  
344 9.4 06945.8 -0535.7  
345 10. 06945.8 -0552.1  
346 9.2 06945.8 -0543.7  
347 9.5 06945.8 -0509.9  
348 9.2 06945.8 -0540.0  
349 9.3 06945.8 -0540.8  
350 9.8 06945.8 -0546.0  
  
351 10. 06945.8 -0526.2  
352 9.3 06945.8 -0504.3  
353 8.8 06945.8 -0556.2  
354 10. 06945.8 -0524.8  
355 9.8 06945.8 -0542.3  
356 9.5 06945.8 -0551.5  
357 8.2 06945.8 -0500.4  
358 9.4 06945.8 -0553.1  
359 9.3 06945.8 -0531.0  
360 9.7 06945.8 -0522.3  
  
361 8.5 06945.8 -0524.2  
362 9.9 06945.8 -0544.2  
363 9.9 06945.8 -0532.1  
364 10. 06945.8 -0517.5  
365 8.9 06945.8 -0523.8  
366 9.5 06945.8 -0541.4  
367 9.8 06945.8 -0518.1  
368 9.4 06945.8 -0545.1  
369 9.8 06945.8 -0550.4  
370 9.7 06945.8 -0543.8  
  
371 9.1 06945.8 -0529.7  
372 8.5 06945.8 -0530.0  
373 9.8 06945.8 -0506.2  
374 9.0 06945.8 -0556.3  
375 10. 06945.8 -0530.2  
376 9.9 06945.8 -0559.6  
377 9.8 06945.8 -0526.6  
378 9.0 06945.8 -0510.4  
379 9.5 06945.8 -0502.8  
380 9.0 06945.8 -0517.5  
  
381 7.5 06945.8 -0501.4  
382 8.1 06945.8 -0518.6  
383 9.8 06945.8 -0535.6  
384 9.8 06945.8 -0519.1  
385 10. 06945.8 -0507.0  
386 8.3 06945.8 -0505.7  
387 9.2 06945.8 -0502.3  
388 7.3 06945.8 -0503.2  
389 9.4 06945.8 -0548.5  
390 9.5 06945.8 -0506.5  
  
391 9.5 06945.8 -0554.7  
392 9.8 06945.8 -0529.4  
393 8.8 06945.8 -0540.6  
394 9.3 06945.8 -0532.2  
395 9.8 06945.8 -0538.9  
396 9.8 06945.8 -0527.2  
397 9.4 06945.8 -0542.5  
398 9.8 06945.8 -0526.4  
399 9.8 06945.8 -0533.9  
400 9.8 06945.8 -0542.4  
  
401 10. 06945.8 -0526.0  
402 8.8 06945.8 -0517.3  
403 9.0 06945.8 -0546.6  
404 8.7 06945.8 -0502.9  
405 9.5 06945.8 -0510.8  
406 9.6 06945.8 -0555.0  
407 9.8 06945.8 -0542.6  
408 9.5 06945.8 -0539.2  
409 9.0 06945.8 -0543.4  
410 8.8 06945.8 -0532.4

411 7.7 06945.8 -0556.8  
412 10. 06945.8 -0544.3  
413 9.1 06945.8 -0515.3  
414 10. 06945.8 -0535.0  
415 10. 06945.8 -0540.4  
416 9.2 06945.8 -0544.7  
417 8.1 06945.8 -0545.4  
418 9.5 06945.8 -0509.2  
419 9.5 06945.8 -0532.7  
420 9.1 06945.8 -0552.3  
  
421 9.0 06945.8 -0556.3  
422 9.0 06945.8 -0530.8  
423 10. 06945.8 -0557.4  
424 9.4 06945.8 -0517.4  
425 8.5 06945.8 -0501.5  
426 9.5 06945.8 -0556.8  
427 9.2 06945.8 -0538.6  
428 9.5 06945.8 -0540.4  
429 8.7 06945.8 -0500.0  
430 8.2 06945.8 -0532.3  
  
431 9.0 06945.8 -0535.4  
432 9.7 06945.8 -0516.6  
433 9.4 06945.8 -0514.0  
434 9.8 06945.8 -0518.9  
435 9.3 06945.8 -0504.8  
436 9.8 06945.8 -0549.4  
437 8.8 06945.8 -0540.3  
438 7.0 06945.8 -0500.6  
439 9.1 06945.8 -0541.8  
440 9.5 06945.8 -0513.4  
  
441 9.8 06945.8 -0507.6  
442 9.2 06945.8 -0518.2  
443 9.2 06945.8 -0527.7  
444 9.1 06945.8 -0550.0  
445 9.8 06945.8 -0548.8  
446 9.8 06945.8 -0526.5  
447 9.0 06945.8 -0510.6  
448 9.5 06945.8 -0556.8  
449 9.8 06945.8 -0529.3  
450 9.5 06945.8 -0502.7  
  
451 9.8 06945.8 -0542.2  
452 9.8 06945.8 -0505.1  
453 8.5 06945.8 -0524.5  
454 9.5 06945.8 -0552.6  
455 9.9 06945.8 -0525.3  
456 9.4 06945.8 -0513.0  
457 9.1 06945.8 -0545.1  
458 9.3 06945.8 -0530.7  
459 9.1 06945.8 -0549.7  
460 9.1 06945.8 -0506.2  
  
461 9.1 06945.8 -0518.5  
462 9.8 06945.8 -0519.1  
463 9.0 06945.8 -0540.8  
464 9.8 06945.8 -0532.3  
465 9.8 06945.8 -0536.1  
466 9.5 06945.8 -0520.3  
467 8.5 06945.8 -0556.1  
468 10. 06945.8 -0559.8  
469 9.4 06945.8 -0511.1  
470 9.8 06945.8 -0535.6  
  
471 7.5 06945.8 -0540.9  
472 9.2 06945.8 -0526.0  
473 9.3 06945.8 -0545.0  
474 9.7 06945.8 -0539.9  
475 9.6 06945.8 -0505.1  
476 9.7 06945.8 -0537.1  
477 9.6 06945.8 -0558.2  
478 10. 06945.8 -0507.4  
479 9.8 06945.8 -0506.7  
480 9.5 06945.8 -0547.8  
  
481 9.2 06945.8 -0542.3  
482 9.5 06945.8 -0504.4  
483 9.3 06945.8 -0549.3  
484 9.5 06945.8 -0523.8  
485 9.9 06945.8 -0524.5  
486 9.7 06945.8 -0558.2  
487 9.0 06945.8 -0507.3  
488 9.8 06945.8 -0500.9  
489 9.0 06945.8 -0510.6  
490 9.3 06945.8 -0505.3  
  
491 8.6 06945.8 -0543.2  
492 9.4 06945.8 -0518.0  
493 9.1 06945.8 -0551.1  
494 9.5 06945.8 -0558.7  
495 9.5 06945.8 -0548.6  
496 9.3 06945.8 -0507.0  
497 9.5 06945.8 -0533.3  
498 8.6 06945.8 -0528.8  
499 9.0 06945.8 -0501.5  
500 9.8 06945.8 -0521.1

-05 500 2h33m



-05 501 2H33m

501 8.3 22359.3 -0503.2  
502 9.7 23418.0 -0537.2  
503 9.7 23419.9 -0532.1  
504 9.7 23424.6 -0504.7  
505 9.3 23466.1 -0525.8  
506 9.7 23501.6 -0503.7  
507 10. 23555.3 -0515.5  
508 9.6 23554.7 -0509.1  
509 8.5 23706.6 -0504.7  
510 9.5 23712.7 -0511.9

511 9.8 23738.8 -0516.3  
512 9.8 23817.7 -0508.4  
513 9.5 23836.1 -0509.0  
514 7.7 23845.6 -0533.6  
515 9.1 23920.8 -0517.1  
516 9.3 23934.2 -0511.0  
517 9.8 23934.7 -0522.6  
518 10. 24058.9 -0555.7  
519 8.3 24107.0 -0529.0  
520 9.7 24108.5 -0505.8

521 8.3 24109.3 -0531.4  
522 9.7 24124.0 -0503.7  
523 9.4 24127.2 -0515.5  
524 7.7 24141.7 -0546.6  
525 9.8 24218.7 -0551.0  
526 9.3 24244.0 -0525.7  
527 8.6 24246.8 -0418.7  
528 7.2 24308.2 -0525.1  
529 9.3 24321.7 -0502.0  
530 9.4 24333.7 -0512.1

531 9.3 24412.1 -0549.5  
532 8.9 24414.1 -0506.9  
533 9.7 24446.7 -0522.0  
534 9.6 24464.0 -0532.9  
535 9.5 24531.0 -0556.5  
536 7.3 24600.2 -0550.3  
537 9.8 24624.3 -0439.2  
538 9.6 24650.3 -0542.6  
539 9.5 24655.8 -0548.5  
540 9.1 24705.7 -0509.6

541 7.0 24726.4 -0555.3  
542 9.0 24805.4 -0518.1  
543 9.8 24812.3 -0514.0  
544 10. 24815.3 -0539.5  
545 9.4 24823.6 -0528.8  
546 8.0 24929.6 -0556.4  
547 9.6 24950.8 -0505.7  
548 9.7 25012.5 -0521.8  
549 9.8 25014.6 -0502.1  
550 9.3 25020.2 -0542.8

551 8.6 25023.7 -0556.6  
552 9.5 25023.8 -0552.8  
553 8.5 25042.4 -0518.2  
554 7.3 25156.5 -0521.4  
555 9.8 25157.3 -0524.3  
556 9.4 25202.8 -0550.8  
557 9.4 25216.0 -0549.5  
558 9.5 25221.7 -0526.5  
559 9.3 25253.4 -0545.2  
560 9.8 25467.0 -0500.6

561 9.8 25468.0 -0517.7  
562 9.4 25413.3 -0536.0  
563 10. 25438.2 -0532.0  
564 9.5 25521.8 -0557.1  
565 9.1 25536.4 -0517.5  
566 8.9 25553.3 -0529.5  
567 9.4 25608.0 -0544.1  
568 7.0 25652.9 -0548.0  
569 10. 25727.1 -0522.5  
570 9.2 25742.2 -0542.7

571 10. 25742.7 -0554.7  
572 10. 25750.0 -0517.8  
573 10. 25805.2 -0505.4  
574 9.5 25844.9 -0529.1  
575 9.4 25852.3 -0507.4  
576 10. 25920.3 -0507.3  
577 9.3 25930.9 -0513.5  
578 9.0 25936.1 -0532.0  
579 8.2 25936.4 -0536.7  
580 9.8 25952.3 -0507.5

581 7.8 30007.5 -0556.8  
582 9.5 30041.2 -0526.7  
583 9.3 30051.4 -0551.0  
584 9.0 30055.7 -0526.4  
585 9.4 30221.9 -0504.4  
586 9.1 30224.9 -0505.7  
587 9.3 30241.4 -0551.8  
588 9.6 30246.3 -0501.5  
589 8.6 30251.1 -0554.5  
590 9.5 30258.5 -0551.0

591 9.5 30258.9 -0549.9  
592 7.8 30326.6 -0556.5  
593 9.5 30355.0 -0514.5  
594 9.5 30416.4 -0533.7  
595 9.4 30518.9 -0504.3  
596 8.3 30527.5 -0500.5  
597 9.0 30527.9 -0500.7  
598 8.9 30539.5 -0503.3  
599 9.2 30539.6 -0503.1  
600 8.2 30512.6 -0540.8

601 8.5 30756.1 -0519.4  
602 9.6 30816.0 -0543.5  
603 9.8 30839.3 -0540.4  
604 9.5 30841.2 -0538.1  
605 9.8 30894.2 -0513.5  
606 9.1 30908.6 -0500.7  
607 9.5 30946.0 -0503.5  
608 9.8 31001.1 -0537.9  
609 9.2 31020.8 -0523.6  
610 9.8 31023.9 -0522.4

611 9.4 31032.7 -0503.3  
612 9.8 31038.1 -0551.3  
613 9.8 31055.0 -0529.3  
614 9.4 31109.2 -0514.1  
615 9.1 31109.6 -0501.2  
616 9.8 31128.3 -0518.8  
617 9.5 31125.3 -0518.1  
618 8.7 31145.8 -0516.1  
619 9.7 31256.8 -0502.9  
620 9.3 31324.4 -0529.3

621 9.8 31334.7 -0554.3  
622 9.9 31340.9 -0522.2  
623 9.4 31412.8 -0553.9  
624 10. 31423.4 -0524.7  
625 8.5 31433.0 -0541.0  
626 9.0 31436.1 -0558.3  
627 9.1 31443.9 -0527.5  
628 7.7 31469.2 -0549.8  
629 10. 31494.6 -0510.0  
630 9.6 31490.6 -0528.2

631 10. 31433.7 -0555.7  
632 10. 31535.1 -0539.7  
633 9.8 31552.8 -0508.0  
634 9.3 31620.5 -0522.6  
635 10. 31646.5 -0528.2  
636 9.1 31702.6 -0511.4  
637 9.5 31720.9 -0515.5  
638 10. 31744.9 -0540.6  
639 8.8 31760.7 -0513.5  
640 9.6 31761.5 -0541.7

641 9.1 31749.9 -0529.3  
642 7.9 31741.5 -0551.0  
643 10. 31752.0 -0520.1  
644 7.0 31757.0 -0510.1  
645 12. 31825.1 -0515.6  
646 9.6 31835.3 -0501.8  
647 9.8 31846.7 -0549.4  
648 9.6 31849.1 -0533.1  
649 9.7 31846.0 -0527.4  
650 9.8 31852.1 -0527.6

651 9.5 31901.6 -0514.8  
652 9.7 31907.0 -0500.4  
653 9.3 31907.6 -0501.5  
654 9.5 31908.7 -0533.6  
655 9.4 31918.0 -0504.7  
656 9.8 31924.4 -0504.5  
657 9.6 31928.5 -0518.5  
658 9.5 31944.0 -0517.8  
659 9.5 31947.5 -0540.5  
660 9.0 31949.2 -0515.4

661 9.4 31958.9 -0551.2  
662 9.1 31964.7 -0506.6  
663 9.4 31966.6 -0548.4  
664 9.1 32006.0 -0524.3  
665 9.9 32029.1 -0533.2  
666 9.4 32042.8 -0555.1  
667 9.3 32105.9 -0549.4  
668 8.7 32106.7 -0544.1  
669 8.3 32141.1 -0531.8  
670 10. 32204.8 -0508.8

671 9.8 32211.6 -0523.0  
672 8.3 32254.6 -0521.4  
673 9.7 32316.4 -0544.3  
674 9.0 32325.2 -0524.4  
675 9.9 32330.9 -0513.3  
676 9.5 32330.9 -0527.9  
677 9.5 32334.5 -0517.2  
678 9.3 32343.0 -0501.0  
679 9.4 32409.2 -0532.7  
680 9.3 32417.7 -0554.3

681 9.8 32425.3 -0557.0  
682 9.7 32450.8 -0537.7  
683 10. 32444.2 -0518.9  
684 9.1 32600.0 -0506.4  
685 9.7 32607.8 -0546.3  
686 9.4 32650.8 -0555.8  
687 8.8 32701.5 -0532.9  
688 9.8 32724.2 -0545.7  
689 9.5 32724.6 -0519.3  
690 9.4 32727.4 -0529.0

691 9.8 32727.9 -0558.9  
692 9.4 32729.2 -0553.7  
693 9.8 32743.1 -0507.2  
694 9.3 32745.4 -0540.9  
695 8.5 32755.3 -0523.3  
696 6.5 32846.5 -0536.5  
697 9.0 32853.9 -0529.4  
698 9.8 32915.7 -0517.0  
699 9.3 32931.4 -0530.0  
700 9.0 32936.5 -0509.9

701 9.0 33003.1 -0508.3  
702 9.6 33003.8 -0504.5  
703 9.5 33109.2 -0546.4  
704 9.8 33113.1 -0545.5  
705 9.5 33139.4 -0556.6  
706 9.4 33142.3 -0552.5  
707 9.3 33144.8 -0518.7  
708 9.7 33214.9 -0544.5  
709 10. 33220.8 -0536.8  
710 10. 33227.6 -0520.2

711 8.9 33247.0 -0534.9  
712 9.4 33249.3 -0519.8  
713 9.8 33255.5 -0500.8  
714 9.3 33302.1 -0536.8  
715 9.5 33327.5 -0540.8  
716 9.5 33338.9 -0522.2  
717 9.1 33353.6 -0550.3  
718 8.5 33359.2 -0545.5  
719 9.1 33406.8 -0519.0  
720 10. 33419.5 -0532.6

721 8.6 33433.5 -0542.5  
722 9.9 33440.6 -0536.2  
723 9.7 33509.8 -0539.2  
724 7.7 33531.7 -0503.9  
725 9.4 33532.3 -0521.5  
726 10. 33556.6 -0509.9  
727 9.5 33619.9 -0507.9  
728 9.7 33621.1 -0508.8  
729 8.8 33629.8 -0518.5  
730 9.1 33704.4 -0539.3

731 9.3 33722.2 -0540.3  
732 9.7 33729.5 -0542.9  
733 9.9 33742.7 -0524.7  
734 10. 33756.6 -0529.2  
735 9.8 33801.5 -0529.8  
736 9.2 33816.7 -0548.1  
737 10. 33831.0 -0546.5  
738 9.0 33842.8 -0545.7  
739 9.5 33854.0 -0525.7  
740 9.3 33856.7 -0507.1

741 9.6 33916.0 -0551.8  
742 9.6 33916.6 -0503.5  
743 9.5 33944.7 -0554.8  
744 10. 33958.0 -0545.2  
745 9.6 34011.1 -0500.8  
746 9.0 34014.9 -0502.9  
747 10. 34032.2 -0527.4  
748 8.9 34035.2 -0521.7  
749 7.5 34036.4 -0517.3  
750 9.0 34042.0 -0554.0

751 10. 34119.8 -0558.7  
752 10. 34159.9 -0528.0  
753 9.5 34224.2 -0542.2  
754 10. 34229.3 -0518.9  
755 9.0 34232.4 -0543.8  
756 9.7 34232.8 -0538.9  
757 9.0 34255.5 -0553.6  
758 8.2 34309.5 -0531.1  
759 9.1 34312.7 -0512.3  
760 9.2 34318.5 -0528.0

761 9.8 34377.8 -0517.7  
762 8.0 34329.5 -0503.1  
763 9.2 34359.8 -0513.0  
764 9.5 34413.9 -0519.7  
765 9.4 34432.1 -0529.1  
766 10. 34434.6 -0500.8  
767 9.8 34507.7 -0509.9  
768 7.0 34520.5 -0529.5  
769 5.7 34532.1 -0547.8  
770 9.4 34601.2 -0508.5

-05 860 4h08m

771 8.9 34622.0 -0527.2  
772 10. 34634.3 -0517.4  
773 9.5 34744.2 -0549.0  
774 9.5 34750.5 -0538.0  
775 8.2 34759.6 -0524.4  
776 9.6 34834.0 -0551.8  
777 9.6 34851.4 -0501.6  
778 9.2 34904.1 -0525.4  
779 8.5 34906.6 -0534.5  
780 9.7 34927.0 -0546.9

781 9.5 34933.8 -0503.3  
782 10. 34957.5 -0502.1  
783 9.4 34958.9 -0519.7  
784 9.8 35018.7 -0549.4  
785 9.0 35025.6 -0559.2  
786 9.6 35036.5 -0523.0  
787 8.5 35057.9 -0519.7  
788 10. 35058.1 -0527.2  
789 6.0 35143.7 -0552.7  
790 9.5 35202.3 -0554.6

791 9.5 35219.8 -0535.9  
792 9.8 35246.1 -0549.4  
793 10. 35329.8 -0540.0  
794 10. 35333.6 -0531.5  
795 8.8 35369.0 -0507.6  
796 9.5 35359.1 -0556.4  
797 9.4 35403.1 -0532.5  
798 9.6 35410.9 -0514.2  
799 10. 35432.7 -0518.6  
800 9.4 35507.5 -0515.9

801 9.9 35528.0 -0521.3  
802 8.8 35521.2 -0519.3  
803 8.6 35533.7 -0535.0  
804 9.5 35535.8 -0539.7  
805 9.0 35607.5 -0505.7  
806 9.1 35614.6 -0523.4  
807 10. 35615.2 -0501.5  
808 9.5 35625.8 -0506.2  
809 9.6 35643.5 -0543.9  
810 7.0 35651.2 -0500.2

811 9.5 35653.4 -0510.0  
812 9.0 35708.4 -0503.9  
813 9.2 35714.6 -0544.2  
814 9.1 35722.9 -0537.0  
815 9.2 35729.2 -0530.4  
816 8.0 35753.9 -0510.6  
817 9.8 35757.9 -0552.1  
818 9.3 35806.8 -0535.9  
819 9.5 35811.2 -0531.4  
820 9.1 35817.0 -0515.8

821 9.0 35833.3 -0549.0  
822 8.7 35842.5 -0533.3  
823 10. 35848.7 -0559.8  
824 9.5 35849.9 -0537.5  
825 10. 35933.5 -0551.8  
826 9.8 35941.1 -0524.3  
827 9.3 35942.6 -0507.4  
828 9.5 40011.1 -0554.7  
829 9.6 40037.4 -0541.8  
830 9.3 40101.2 -0526.8

831 10. 40109.4 -0544.7  
832 9.5 40117.6 -0554.1  
833 8.2 40127.9 -0510.0  
834 9.2 40135.9 -0502.9  
835 9.8 40151.8 -0531.0  
836 8.8 40154.6 -0505.8  
837 9.0 40205.1 -0521.0  
838 9.6 40222.1 -0523.6  
839 9.8 40249.2 -0528.7  
840 9.6 40325.8 -0501.8

841 7.3 40333.3 -0515.0  
842 10. 40337.4 -0529.1  
843 7.8 40346.4 -0539.2  
844 10. 40456.2 -0528.5  
845 9.4 40426.5 -0545.2  
846 9.6 40440.0 -0537.0  
847 9.5 40440.9 -0538.9  
848 9.0 40505.7 -0557.6  
849 9.2 40524.5 -0505.2  
850 9.3 40570.1 -0516.1

851 10. 40557.6 -0558.3  
852 9.2 40600.2 -0547.9  
853 9.5 40639.7 -0523.3  
854 9.7 40701.9 -0550.8  
855 9.1 40725.3 -0531.7  
856 9.5 40727.8 -0531.6  
857 8.4 40742.8 -0545.7  
858 9.8 40807.4 -0511.8  
859 9.0 40823.5 -0505.6  
860 9.0 40824.9 -0512.0



-05 861 4h09m

-05 1220 5h12m

|     |     |         |         |      |     |         |         |      |     |           |         |      |     |         |         |
|-----|-----|---------|---------|------|-----|---------|---------|------|-----|-----------|---------|------|-----|---------|---------|
| 861 | 10. | 40832.1 | -0548.8 | 951  | 9.5 | 42606.9 | -0541.2 | 1041 | 9.8 | 44101.9   | -0537.7 | 1131 | 10. | 45508.4 | -0510.5 |
| 862 | 10. | 40840.6 | -0548.4 | 952  | 9.4 | 42626.3 | -0538.7 | 1042 | 9.2 | 44117.0   | -0548.2 | 1132 | 9.0 | 45515.0 | -0538.9 |
| 863 | 9.0 | 40902.7 | -0522.1 | 953  | 7.0 | 42635.3 | -0536.7 | 1043 | 9.8 | 44126.5   | -0542.7 | 1133 | 9.8 | 45517.4 | -0507.8 |
| 864 | 9.0 | 40907.1 | -0543.1 | 954  | 9.5 | 42657.2 | -0510.0 | 1044 | 6.3 | 44126.7   | -0555.5 | 1134 | 9.7 | 45526.2 | -0500.9 |
| 865 | 9.0 | 40908.7 | -0517.0 | 955  | 9.0 | 42701.3 | -0523.9 | 1045 | 9.5 | 44134.3   | -0533.0 | 1135 | 8.8 | 45538.4 | -0555.0 |
| 866 | 9.5 | 40922.8 | -0557.2 | 956  | 9.0 | 42710.6 | -0504.4 | 1046 | 7.5 | 44204.4   | -0514.5 | 1136 | 9.5 | 45615.6 | -0511.1 |
| 867 | 9.8 | 40923.6 | -0511.4 | 957  | 8.0 | 42720.3 | -0526.5 | 1047 | 9.0 | 44211.3   | -0527.5 | 1137 | 10. | 45615.7 | -0521.0 |
| 868 | 9.5 | 40938.1 | -0511.6 | 958  | 9.8 | 42737.7 | -0556.5 | 1048 | 9.8 | 44213.5   | -0519.8 | 1138 | 8.7 | 45627.8 | -0521.8 |
| 869 | 9.1 | 41029.9 | -0541.0 | 959  | 8.9 | 42738.5 | -0544.8 | 1049 | 9.4 | 44247.2   | -0529.9 | 1139 | 9.4 | 45644.4 | -0553.9 |
| 870 | 9.2 | 41031.3 | -0547.2 | 960  | 9.5 | 42750.7 | -0522.5 | 1050 | 8.5 | 44302.7   | -0527.7 | 1140 | 9.5 | 45712.8 | -0525.9 |
| 871 | 8.3 | 41035.8 | -0520.6 | 961  | 9.4 | 42758.8 | -0558.9 | 1051 | 9.2 | 44302.8   | -0532.4 | 1141 | 9.1 | 45716.6 | -0510.8 |
| 872 | 9.8 | 41047.3 | -0547.2 | 962  | 8.8 | 42800.0 | -0508.5 | 1052 | 9.6 | 44304.1   | -0533.2 | 1142 | 9.3 | 45729.4 | -0554.0 |
| 873 | 9.3 | 41050.7 | -0555.2 | 963  | 8.0 | 42810.8 | -0502.3 | 1053 | 9.6 | 44322.3   | -0543.7 | 1143 | 9.5 | 45747.2 | -0529.6 |
| 874 | 8.9 | 41100.1 | -0516.5 | 964  | 9.9 | 42823.4 | -0517.1 | 1054 | 9.4 | 44324.4   | -0515.3 | 1144 | 9.7 | 45753.2 | -0547.9 |
| 875 | 10. | 41100.1 | -0505.1 | 965  | 9.9 | 42843.7 | -0558.8 | 1055 | 9.3 | 44338.8   | -0502.8 | 1145 | 9.1 | 45758.9 | -0524.1 |
| 876 | 9.0 | 41125.3 | -0526.4 | 966  | 9.2 | 42904.2 | -0534.6 | 1056 | 9.3 | 44340.4   | -0509.7 | 1146 | 9.4 | 45821.4 | -0504.5 |
| 877 | 9.8 | 41133.5 | -0512.6 | 967  | 9.5 | 42905.5 | -0544.8 | 1057 | 9.6 | 44341.9   | -0535.4 | 1147 | 9.1 | 45831.4 | -0521.1 |
| 878 | 9.8 | 41208.1 | -0514.9 | 968  | 9.5 | 42906.5 | -0514.2 | 1058 | 9.5 | 44350.4   | -0558.7 | 1148 | 9.7 | 45853.4 | -0510.8 |
| 879 | 9.7 | 41246.5 | -0519.4 | 969  | 9.5 | 42909.7 | -0507.1 | 1059 | 8.8 | 44355.1   | -0552.7 | 1149 | 9.5 | 45855.4 | -0552.9 |
| 880 | 9.6 | 41330.4 | -0535.6 | 970  | 9.8 | 42929.1 | -0531.6 | 1060 | 9.8 | 44413.0   | -0545.5 | 1150 | 9.5 | 45857.9 | -0512.2 |
| 881 | 9.4 | 41334.4 | -0535.0 | 971  | 9.4 | 42930.8 | -0505.6 | 1061 | 9.8 | 44431.7   | -0536.1 | 1151 | 9.0 | 45911.4 | -0548.9 |
| 882 | 9.6 | 41347.6 | -0530.9 | 972  | 10. | 42940.8 | -0546.5 | 1062 | 8.2 | 44434.1   | -0537.0 | 1152 | 9.4 | 45917.5 | -0532.0 |
| 883 | 8.5 | 41355.8 | -0554.4 | 973  | 9.8 | 43018.7 | -0538.5 | 1063 | 8.9 | 44450.8   | -0533.0 | 1153 | 9.8 | 45927.3 | -0504.9 |
| 884 | 9.4 | 41359.4 | -0508.5 | 974  | 10. | 43025.7 | -0514.0 | 1064 | 10. | 44507.9   | -0540.9 | 1154 | 9.2 | 45931.4 | -0549.4 |
| 885 | 9.3 | 41406.3 | -0501.2 | 975  | 8.8 | 43030.3 | -0548.5 | 1065 | 8.9 | 44509.7   | -0501.9 | 1155 | 9.3 | 45933.4 | -0556.5 |
| 886 | 9.7 | 41411.0 | -0548.9 | 976  | 9.1 | 43100.2 | -0550.3 | 1066 | 9.6 | 44525.2   | -0542.4 | 1156 | 8.0 | 45946.2 | -0521.5 |
| 887 | 9.5 | 41445.9 | -0500.2 | 977  | 9.5 | 43104.6 | -0529.5 | 1067 | 8.0 | 44537.8   | -0531.5 | 1157 | 9.5 | 45953.1 | -0534.6 |
| 888 | 9.5 | 41449.9 | -0549.9 | 978  | 8.2 | 43119.9 | -0540.9 | 1068 | 4.3 | 44546.0   | -0541.7 | 1158 | 9.5 | 50002.1 | -0523.0 |
| 889 | 7.1 | 41459.4 | -0501.4 | 979  | 9.5 | 43122.3 | -0508.0 | 1069 | 9.9 | 44549.3   | -0557.5 | 1159 | 9.5 | 50020.6 | -0535.9 |
| 890 | 9.4 | 41522.3 | -0540.9 | 980  | 9.1 | 43135.4 | -0540.9 | 1070 | 9.4 | 44601.6   | -0546.6 | 1160 | 9.5 | 50028.3 | -0548.0 |
| 891 | 7.8 | 41526.2 | -0514.4 | 981  | 7.8 | 43156.5 | -0405.9 | 1071 | 9.9 | 44606.9   | -0521.0 | 1161 | 9.0 | 50035.3 | -0540.9 |
| 892 | 9.3 | 41526.5 | -0551.2 | 982  | 9.0 | 43215.9 | -0415.7 | 1072 | 9.6 | 44618.6   | -0547.5 | 1162 | 3.0 | 50043.0 | -0516.3 |
| 893 | 9.4 | 41539.7 | -0528.8 | 983  | 9.0 | 43217.4 | -0414.0 | 1073 | 9.6 | 44621.3   | -0549.4 | 1163 | 9.5 | 50050.5 | -0553.3 |
| 894 | 10. | 41543.1 | -0507.4 | 984  | 8.5 | 43219.8 | -0410.9 | 1074 | 9.4 | 44622.7   | -0524.3 | 1164 | 9.5 | 50101.8 | -0505.1 |
| 895 | 7.5 | 41604.9 | -0521.2 | 985  | 9.8 | 43234.7 | -0403.5 | 1075 | 9.6 | 44628.2   | -0546.6 | 1165 | 9.5 | 50104.0 | -0558.2 |
| 896 | 10. | 41616.6 | -0505.9 | 986  | 6.2 | 43239.8 | -0504.3 | 1076 | 9.6 | 44639.4   | -0536.0 | 1166 | 9.0 | 50109.1 | -0528.4 |
| 897 | 9.1 | 41625.5 | -0554.7 | 987  | 10. | 43241.7 | -0517.2 | 1077 | 9.7 | 44655.0   | -0526.9 | 1167 | 9.5 | 50128.2 | -0539.6 |
| 898 | 9.9 | 41631.7 | -0513.8 | 988  | 9.5 | 43243.6 | -0412.1 | 1078 | 9.6 | 44655.9   | -0534.5 | 1168 | 9.0 | 50146.9 | -0510.9 |
| 899 | 9.4 | 41655.6 | -0530.5 | 989  | 9.4 | 43246.0 | -0417.8 | 1079 | 7.8 | 44719.4   | -0539.6 | 1169 | 9.0 | 50211.1 | -0514.8 |
| 900 | 9.5 | 41712.7 | -0513.0 | 990  | 9.3 | 43310.3 | -0512.1 | 1080 | 9.1 | 44728.1   | -0522.8 | 1170 | 9.3 | 50226.1 | -0530.4 |
| 901 | 8.8 | 41714.0 | -0551.4 | 991  | 9.9 | 43314.5 | -0500.7 | 1081 | 9.0 | 44745.6   | -0519.6 | 1171 | 9.4 | 50227.7 | -0544.3 |
| 902 | 9.1 | 41716.8 | -0549.2 | 992  | 9.7 | 43326.2 | -0537.0 | 1082 | 9.4 | 44807.9   | -0504.7 | 1172 | 8.8 | 50231.2 | -0544.3 |
| 903 | 8.3 | 41725.7 | -0513.0 | 993  | 9.1 | 43356.1 | -0526.6 | 1083 | 9.5 | 44809.2   | -0509.2 | 1173 | 9.3 | 50235.1 | -0527.5 |
| 904 | 9.8 | 41736.5 | -0525.0 | 994  | 9.1 | 43358.9 | -0501.9 | 1084 | 9.5 | 44810.8   | -0523.1 | 1174 | 8.7 | 50241.1 | -0542.1 |
| 905 | 9.8 | 41739.6 | -0531.8 | 995  | 9.5 | 43413.8 | -0521.8 | 1085 | 9.4 | 44815.0   | -0513.0 | 1175 | 9.7 | 50256.1 | -0528.2 |
| 906 | 7.5 | 41810.7 | -0559.3 | 996  | 10. | 43425.2 | -0521.1 | 1086 | 9.0 | 44816.1   | -0522.0 | 1176 | 9.2 | 50258.2 | -0558.3 |
| 907 | 8.9 | 41814.9 | -0519.4 | 997  | 9.5 | 43425.6 | -0526.1 | 1087 | 9.5 | 44851.6   | -0516.2 | 1177 | 8.9 | 50327.3 | -0507.5 |
| 908 | 9.7 | 41817.2 | -0533.7 | 998  | 9.5 | 43437.2 | -0545.5 | 1088 | 8.2 | 44856.9   | -0533.7 | 1178 | 8.5 | 50340.0 | -0521.1 |
| 909 | 7.8 | 41826.5 | -0525.0 | 999  | 9.4 | 43506.2 | -0531.9 | 1089 | 9.5 | 44857.4   | -0542.7 | 1179 | 9.0 | 50359.3 | -0547.0 |
| 910 | 8.4 | 41828.7 | -0534.6 | 1000 | 9.5 | 43511.3 | -0555.0 | 1090 | 9.1 | 44859.0   | -0517.7 | 1180 | 9.5 | 50405.9 | -0511.4 |
| 911 | 8.0 | 41831.1 | -0503.6 | 1001 | 9.4 | 43512.3 | -0543.6 | 1091 | 5.3 | 44915.2   | -0524.1 | 1181 | 9.5 | 50407.1 | -0529.7 |
| 912 | 7.3 | 41834.6 | -0529.9 | 1002 | 9.8 | 43527.5 | -0516.2 | 1092 | 8.9 | 44918.6   | -0510.9 | 1182 | 9.2 | 50419.4 | -0552.0 |
| 913 | 9.8 | 41833.0 | -0512.0 | 1003 | 9.8 | 43536.0 | -0506.2 | 1093 | 9.0 | 44919.7   | -0513.9 | 1183 | 9.6 | 50420.5 | -0513.5 |
| 914 | 10. | 41804.9 | -0520.9 | 1004 | 9.3 | 43537.7 | -0502.7 | 1094 | 9.9 | 44926.7   | -0549.1 | 1184 | 9.5 | 50522.3 | -0543.4 |
| 915 | 9.5 | 41829.8 | -0545.2 | 1005 | 9.5 | 43548.7 | -0502.7 | 1095 | 8.2 | 44935.5   | -0500.8 | 1185 | 9.5 | 50527.2 | -0520.2 |
| 916 | 10. | 41822.5 | -0528.3 | 1006 | 9.3 | 43557.9 | -0512.9 | 1096 | 8.9 | 44939.9   | -0508.2 | 1186 | 9.5 | 50544.0 | -0515.8 |
| 917 | 8.0 | 41825.1 | -0415.8 | 1007 | 8.8 | 43603.2 | -0501.7 | 1097 | 9.4 | 45009.4   | -0557.7 | 1187 | 9.3 | 50558.6 | -0502.7 |
| 918 | 9.4 | 41849.3 | -0405.1 | 1008 | 9.3 | 43610.4 | -0548.1 | 1098 | 9.1 | 45010.3   | -0554.7 | 1188 | 9.2 | 50603.6 | -0549.7 |
| 919 | 9.2 | 41849.8 | -0513.8 | 1009 | 10. | 43616.4 | -0540.6 | 1099 | 9.1 | 45012.2   | -0558.3 | 1189 | 9.5 | 50604.1 | -0528.3 |
| 920 | 9.0 | 41955.2 | -0514.0 | 1010 | 9.2 | 43628.2 | -0542.6 | 1100 | 10. | 45019.9   | -0507.9 | 1190 | 9.0 | 50609.0 | -0515.8 |
| 921 | 9.2 | 42005.1 | -0551.7 | 1011 | 8.8 | 43635.2 | -0524.0 | 1101 | 9.3 | 45027.1   | -0522.5 | 1191 | 9.0 | 50612.9 | -0509.1 |
| 922 | 9.3 | 42006.9 | -0558.4 | 1012 | 9.8 | 43642.3 | -0457.4 | 1102 | 9.0 | 45031.4   | -0558.3 | 1192 | 9.0 | 50619.4 | -0556.0 |
| 923 | 9.3 | 42022.4 | -0510.8 | 1013 | 9.3 | 43709.8 | -0556.3 | 1103 | 9.3 | 45033.7   | -0559.3 | 1193 | 9.3 | 50620.3 | -0546.2 |
| 924 | 9.4 | 42031.0 | -0548.0 | 1014 | 9.2 | 43712.7 | -0524.8 | 1104 | 9.5 | 45036.5   | -0514.4 | 1194 | 9.5 | 50630.0 | -0521.2 |
| 925 | 9.0 | 42103.5 | -0540.9 | 1015 | 9.1 | 43713.4 | -0529.8 | 1105 | 8.9 | 45047.4   | -0526.0 | 1195 | 9.5 | 50633.1 | -0522.5 |
| 926 | 9.7 | 42105.7 | -0528.9 | 1016 | 9.6 | 43716.1 | -0529.6 | 1106 | 8.9 | 45054.0   | -0500.4 | 1196 | 9.2 | 50636.0 | -0515.8 |
| 927 | 9.4 | 42145.4 | -0508.2 | 1017 | 10. | 43755.6 | -0538.1 | 1107 | 9.5 | 45054.4   | -0508.1 | 1197 | 9.0 | 50642.0 | -0521.1 |
| 928 | 8.5 | 42211.4 | -0559.8 | 1018 | 9.2 | 43758.8 | -0548.1 | 1108 | 9.5 | 45057.7   | -0524.4 | 1198 | 9.0 | 50648.9 | -0503.0 |
| 929 | 8.8 | 42212.6 | -0550.1 | 1019 | 9.5 | 43805.2 | -0552.7 | 1109 | 9.0 | 45104.2   | -0529.0 | 1199 | 9.0 | 50653.1 | -0523.8 |
| 930 | 9.1 | 42224.2 | -0535.5 | 1020 | 9.3 | 43821.1 | -0528.0 | 1110 | 9.5 | 45136.8   | -0554.6 | 1200 | 9.5 | 50707.3 | -0543.9 |
| 931 | 9.3 | 42233.1 | -0501.8 | 1021 | 9.5 | 43823.6 | -0528.0 | 1111 | 9.8 | 45139.7   | -0524.0 | 1201 | 8.5 | 50712.1 | -0526.0 |
| 932 | 9.5 | 42246.7 | -0528.2 | 1022 | 8.9 | 43825.2 | -0549.3 | 1112 | 9.4 | 45201.6   | -0505.5 | 1202 | 9.3 | 50747.9 | -0513.0 |
| 933 | 9.8 | 42242.7 | -0541.1 | 1023 | 9.1 | 43829.7 | -0550.4 | 1113 | 9.6 | 45240.5   | -0502.2 | 1203 | 9.0 | 50751.4 | -0553.2 |
| 934 | 10. | 42246.9 | -0522.5 | 1024 | 9.2 | 43843.1 | -0521.1 | 1114 | 8.7 | 45242.6   | -0522.4 | 1204 | 9.0 | 50757.2 | -0525.4 |
| 935 | 9.3 | 42305.5 | -0528.5 | 1025 | 9.3 | 43843.7 | -0549.3 | 1115 | 9.5 | 45252.5   | -0516.6 | 1205 | 9.4 | 50838.8 | -0512.1 |
| 936 | 9.8 | 42313.2 | -0548.8 | 1026 | 9.6 | 43859.2 | -0548.0 | 1116 | 10. | 45303.9</ |         |      |     |         |         |



-05 1221 5h12m

1221 7.3 51233.2 -0501.9  
1222 9.5 51244.4 -0544.5  
1223 8.0 51255.2 -0521.3  
1224 9.0 51317.4 -0541.9  
1225 7.0 51319.3 -0530.7  
1226 9.0 51323.5 -0557.9  
1227 9.0 51325.3 -0526.2  
1228 8.5 51331.5 -0558.7  
1229 9.0 51335.5 -0555.6  
1230 9.3 51346.1 -0502.5  
  
1231 7.5 51412.5 -0557.9  
1232 9.7 51424.0 -0520.1  
1233 9.1 51425.7 -0502.8  
1234 9.2 51430.2 -0513.3  
1235 9.3 51436.1 -0501.7  
1236 9.3 51445.1 -0507.5  
1237 9.4 51540.1 -0505.5  
1238 9.0 51556.3 -0527.9  
1239 9.6 51601.2 -0504.5  
1240 9.0 51607.2 -0517.6  
  
1241 9.5 51716.3 -0532.7  
1242 9.5 51717.4 -0550.1  
1243 9.3 51718.3 -0524.6  
1244 9.0 51738.4 -0540.7  
1245 8.5 51828.2 -0517.4  
1246 8.5 51843.4 -0545.6  
1247 6.0 51855.3 -0538.5  
1248 9.0 51859.3 -0536.7  
1249 9.5 51901.0 -0517.9  
1250 9.5 51905.2 -0505.3  
  
1251 8.5 51922.4 -0546.5  
1252 9.0 51934.2 -0518.0  
1253 9.2 51953.3 -0535.2  
1254 9.4 51954.7 -0502.1  
1255 9.3 52000.7 -0504.4  
1256 9.1 52001.6 -0506.5  
1257 9.5 52015.0 -0531.7  
1258 9.5 52022.2 -0512.5  
1259 8.5 52030.2 -0522.3  
1260 9.3 52042.4 -0539.7  
  
1261 9.5 52102.5 -0556.6  
1262 10.0 52112.1 -0507.9  
1263 9.4 52115.2 -0510.1  
1264 9.5 52124.1 -0511.5  
1265 8.3 52130.3 -0528.8  
1266 9.3 52139.3 -0528.8  
1267 9.3 52142.2 -0521.4  
1268 8.0 52159.1 -0533.9  
1269 8.0 52203.3 -0554.5  
1270 9.5 52228.0 -0513.4  
  
1271 9.5 52232.6 -0520.1  
1272 9.5 52245.0 -0555.4  
1273 9.5 52247.1 -0502.8  
1274 8.1 52303.0 -0519.2  
1275 9.6 52317.0 -0518.3  
1276 9.5 52319.0 -0508.5  
1277 8.5 52336.0 -0526.7  
1278 9.5 52348.6 -0504.3  
1279 9.5 52401.0 -0511.3  
1280 9.5 52410.0 -0502.2  
  
1281 9.0 52413.0 -0548.7  
1282 9.0 52425.0 -0510.3  
1283 9.4 52459.0 -0531.2  
1284 9.5 52511.0 -0554.9  
1285 8.7 52538.1 -0504.2  
1286 9.5 52541.0 -0522.3  
1287 9.3 52545.0 -0516.0  
1288 9.5 52558.0 -0541.5  
1289 8.5 52600.0 -0526.8  
1290 9.5 52624.0 -0552.3  
  
1291 9.5 52632.1 -0507.2  
1292 9.3 52639.7 -0516.6  
1293 9.8 52642.5 -0538.5  
1294 10.1 52643.5 -0552.1  
1295 9.1 52648.1 -0542.8  
1296 9.4 52648.2 -0544.9  
1297 9.5 52702.2 -0529.3  
1298 9.5 52707.2 -0518.1  
1299 9.5 52707.8 -0543.3  
1300 10.1 52726.5 -0552.2  
  
1301 9.1 52726.9 -0549.0  
1302 9.5 52727.2 -0509.6  
1303 9.3 52728.5 -0547.8  
1304 9.5 52733.2 -0513.6  
1305 8.3 52740.1 -0540.4  
1306 9.8 52741.8 -0525.2  
1307 10.1 52745.5 -0539.3  
1308 9.1 52748.2 -0526.2  
1309 10.1 52750.8 -0511.3  
1310 9.5 52753.6 -0512.0

1311 8.3 52758.1 -0518.4  
1312 9.0 52801.7 -0558.3  
1313 9.0 52802.1 -0533.7  
1314 9.0 52808.0 -0555.2  
1315 4.0 52809.1 -0529.2  
1316 9.0 52810.6 -0510.2  
1317 10.1 52811.7 -0515.2  
1318 10.1 52811.7 -0547.2  
1319 5.0 52816.0 -0540.5  
1320 7.8 52819.3 -0540.9  
  
1321 9.5 52819.7 -0557.1  
1322 9.3 52820.7 -0554.0  
1323 9.0 52821.2 -0509.0  
1324 9.5 52822.6 -0528.8  
1325 9.0 52824.0 -0522.4  
1326 9.0 52824.2 -0531.4  
1327 9.0 52826.0 -0511.7  
1328 9.5 52828.0 -0518.4  
1329 9.8 52843.0 -0534.5  
1330 8.2 52847.4 -0542.9  
  
1331 9.0 52850.9 -0528.4  
1332 9.5 52852.0 -0529.4  
1333 8.8 52902.3 -0509.1  
1334 7.8 52908.4 -0544.5  
1335 9.0 52919.7 -0520.4  
1336 9.0 52922.7 -0511.8  
1337 9.5 52930.7 -0526.4  
1338 9.0 52931.7 -0513.5  
1339 9.1 52950.8 -0558.4  
1340 9.7 53000.7 -0516.9  
  
1341 9.5 53009.7 -0507.6  
1342 7.8 53027.9 -0501.9  
1343 10.1 53029.0 -0503.5  
1344 9.0 53032.7 -0510.6  
1345 9.5 53050.7 -0524.5  
1346 9.0 53107.7 -0530.8  
1347 8.0 53117.7 -0507.6  
1348 9.0 53120.7 -0512.5  
1349 9.0 53129.7 -0515.6  
1350 9.8 53147.5 -0516.1  
  
1351 7.8 53154.6 -0516.6  
1352 9.5 53158.2 -0501.7  
1353 8.3 53159.2 -0508.7  
1354 9.5 53229.5 -0524.2  
1355 9.0 53235.4 -0508.6  
1356 9.2 53307.6 -0540.6  
1357 10.1 53320.5 -0559.4  
1358 9.4 53345.7 -0506.2  
1359 8.5 53346.6 -0528.4  
1360 9.5 53353.4 -0516.5  
  
1361 9.1 53358.3 -0502.7  
1362 9.7 53404.6 -0545.9  
1363 9.0 53441.5 -0527.7  
1364 9.5 53453.7 -0557.5  
1365 9.5 53500.5 -0523.2  
1366 9.5 53502.5 -0528.1  
1367 9.5 53511.7 -0544.3  
1368 9.5 53523.6 -0542.4  
1369 9.0 53559.6 -0552.7  
1370 8.8 53603.8 -0536.0  
  
1371 9.3 53628.7 -0501.4  
1372 9.5 53631.5 -0525.5  
1373 9.0 53636.4 -0513.8  
1374 9.5 53652.8 -0503.8  
1375 9.4 53656.1 -0549.9  
1376 9.5 53657.0 -0543.1  
1377 9.5 53711.4 -0519.1  
1378 9.4 53716.4 -0510.5  
1379 7.8 53718.5 -0532.1  
1380 9.7 53738.5 -0510.4  
  
1381 9.5 53747.7 -0500.1  
1382 9.5 53807.4 -0510.6  
1383 9.6 53819.3 -0501.5  
1384 9.5 53825.2 -0502.2  
1385 9.5 53826.5 -0523.1  
1386 9.5 53844.1 -0519.8  
1387 8.7 53852.4 -0519.5  
1388 9.5 53908.8 -0510.7  
1389 9.0 53912.7 -0555.6  
1390 9.3 53915.6 -0550.2  
  
1391 10.1 53915.8 -0509.6  
1392 9.4 53916.6 -0548.1  
1393 9.0 53920.4 -0522.6  
1394 10.1 53946.0 -0530.7  
1395 8.5 53951.4 -0511.5  
1396 9.5 54000.0 -0535.6  
1397 9.5 54000.5 -0524.4  
1398 8.0 54013.6 -0538.6  
1399 9.0 54016.5 -0542.3  
1400 9.4 54026.4 -0521.1

1401 9.9 54046.7 -0505.2  
1402 9.3 54056.6 -0544.0  
1403 9.5 54106.3 -0533.3  
1404 9.3 54118.7 -0523.8  
1405 8.8 54123.2 -0523.8  
1406 8.5 54130.7 -0553.4  
1407 9.5 54131.6 -0538.7  
1408 9.5 54134.3 -0505.0  
1409 9.0 54145.6 -0548.9  
1410 8.7 54148.2 -0552.3  
  
1411 10.1 54202.5 -0523.9  
1412 10.1 54213.4 -0516.8  
1413 9.5 54230.6 -0546.7  
1414 9.5 54241.6 -0539.6  
1415 9.5 54251.4 -0514.1  
1416 9.1 54253.5 -0524.2  
1417 8.0 54257.7 -0556.9  
1418 9.5 54312.6 -0549.3  
1419 8.8 54320.2 -0501.3  
1420 9.5 54335.5 -0524.4  
  
1421 9.3 54339.7 -0559.1  
1422 9.0 54403.6 -0539.4  
1423 9.5 54432.7 -0558.6  
1424 9.5 54448.7 -0558.2  
1425 9.5 54450.5 -0523.5  
1426 9.2 54504.0 -0532.5  
1427 9.5 54510.7 -0557.7  
1428 9.4 54540.2 -0504.2  
1429 9.5 54601.6 -0545.7  
1430 9.5 54602.0 -0507.6  
  
1431 9.8 54612.7 -0515.2  
1432 9.8 54616.7 -0510.6  
1433 8.3 54629.4 -0518.8  
1434 7.0 54635.6 -0544.3  
1435 9.2 54636.5 -0531.4  
1436 8.5 54712.5 -0535.1  
1437 9.7 54728.7 -0558.1  
1438 9.9 54808.3 -0507.3  
1439 9.3 54817.0 -0541.9  
1440 9.5 54839.4 -0521.0  
  
1441 9.1 54914.7 -0555.3  
1442 9.5 54916.4 -0538.5  
1443 9.7 54926.1 -0526.9  
1444 9.7 54936.8 -0522.2  
1445 9.7 54948.8 -0523.3  
1446 9.5 55018.6 -0545.0  
1447 9.3 55023.7 -0557.5  
1448 9.7 55024.2 -0507.0  
1449 10.1 55051.0 -0525.2  
1450 9.5 55052.2 -0556.7  
  
1451 8.7 55053.6 -0548.7  
1452 9.6 55059.0 -0536.7  
1453 10.1 55100.0 -0525.2  
1454 9.5 55101.4 -0518.4  
1455 9.6 55108.3 -0541.0  
1456 9.0 55117.3 -0503.9  
1457 9.4 55118.0 -0527.3  
1458 8.3 55142.5 -0532.5  
1459 9.5 55149.5 -0534.8  
1460 9.5 55154.5 -0528.8  
  
1461 10.1 55208.7 -0553.5  
1462 9.5 55222.7 -0556.2  
1463 9.0 55243.3 -0509.8  
1464 8.5 55247.4 -0511.1  
1465 9.0 55259.5 -0529.8  
1466 9.9 55259.9 -0507.0  
1467 9.3 55311.6 -0539.2  
1468 8.3 55315.4 -0513.7  
1469 10.1 55318.4 -0557.9  
1470 9.5 55344.4 -0549.0  
  
1471 9.5 55347.5 -0555.7  
1472 9.5 55401.6 -0540.0  
1473 9.5 55403.5 -0531.5  
1474 9.5 55434.4 -0520.8  
1475 9.7 55436.8 -0531.6  
1476 9.0 55444.9 -0507.6  
1477 9.2 55455.5 -0506.5  
1478 6.5 55500.8 -0508.6  
1479 9.2 55508.4 -0537.5  
1480 8.5 55541.3 -0503.7  
  
1481 9.4 55546.5 -0541.8  
1482 9.5 55553.3 -0536.8  
1483 10.1 55553.6 -0527.9  
1484 9.5 55609.4 -0507.5  
1485 10.1 55643.7 -0517.2  
1486 9.7 55653.0 -0526.1  
1487 8.5 55654.7 -0557.8  
1488 9.5 55726.4 -0510.8  
1489 10.1 55732.9 -0545.7  
1490 10.1 55741.7 -0557.4

1491 7.8 55748.8 -0520.1  
1492 9.7 55808.2 -0534.6  
1493 9.9 55813.7 -0522.9  
1494 10.1 55815.5 -0501.8  
1495 8.5 55824.7 -0523.6  
1496 10.1 55830.9 -0524.2  
1497 8.3 55845.8 -0503.1  
1498 9.5 55852.7 -0559.9  
1499 7.0 55856.7 -0552.3  
1500 9.0 55857.6 -0558.5  
  
1501 9.5 55916.5 -0526.5  
1502 9.5 55941.6 -0549.2  
1503 8.8 56009.5 -0533.6  
1504 9.8 56009.6 -0556.4  
1505 9.7 56013.4 -0537.4  
1506 8.8 56020.5 -0522.4  
1507 9.4 56032.1 -0524.0  
1508 10.1 56036.7 -0516.3  
1509 10.1 56046.7 -0507.5  
1510 9.7 56047.5 -0533.2  
  
1511 9.8 56052.7 -0535.2  
1512 9.5 56058.4 -0521.6  
1513 9.2 56102.7 -0552.4  
1514 9.5 56110.6 -0543.4  
1515 8.5 56118.4 -0519.2  
1516 9.0 56121.5 -0522.7  
1517 8.0 56125.4 -0518.2  
1518 9.3 56154.3 -0502.7  
1519 9.5 56158.5 -0524.9  
1520 8.5 56211.4 -0519.1  
  
1521 8.0 56225.5 -0502.6  
1522 8.8 56225.6 -0541.1  
1523 6.3 56230.6 -0540.7  
1524 9.8 56242.8 -0519.8  
1525 9.8 56312.3 -0526.6  
1526 9.8 56329.0 -0556.2  
1527 9.5 56339.7 -0559.8  
1528 9.5 56346.5 -0535.2  
1529 9.5 56347.7 -0552.2  
1530 9.7 56347.9 -0513.7  
  
1531 9.1 56351.7 -0525.8  
1532 9.8 56357.6 -0503.4  
1533 8.7 56404.4 -0542.4  
1534 8.4 56411.2 -0501.8  
1535 9.1 56412.4 -0509.8  
1536 9.8 56416.6 -0515.4  
1537 10.1 56435.7 -0557.5  
1538 9.8 56451.6 -0538.1  
1539 9.2 56524.6 -0547.7  
1540 9.8 56529.6 -0502.8  
  
1541 9.5 56544.3 -0542.5  
1542 9.8 56548.1 -0547.1  
1543 9.3 56609.2 -0514.1  
1544 9.8 56617.3 -0510.7  
1545 9.9 56624.9 -0501.7  
1546 9.9 56633.0 -0505.0  
1547 9.9 56634.3 -0505.2  
1548 9.8 56643.4 -0526.3  
1549 9.7 56659.4 -0528.2  
1550 9.1 56723.6 -0530.8  
  
1551 9.5 56728.1 -0548.1  
1552 9.5 56732.8 -0533.6  
1553 8.9 56751.9 -0516.2  
1554 9.4 56757.4 -0511.3  
1555 9.0 56804.9 -0546.1  
1556 9.5 56805.4 -0541.4  
1557 9.5 56807.8 -0544.2  
1558 9.3 56817.2 -0514.6  
1559 9.5 56824.0 -0541.5  
1560 9.0 56826.7 -0554.0  
  
1561 9.3 56828.6 -0547.2  
1562 9.2 56830.9 -0546.9  
1563 9.4 56945.1 -0546.7  
1564 9.5 56946.2 -0550.1  
1565 8.0 56949.3 -0518.2  
1566 9.4 56949.3 -0536.3  
1567 8.7 56949.3 -0517.7  
1568 9.5 56949.3 -0517.7  
1569 9.5 56949.3 -0517.7  
1570 9.4 56949.3 -0517.7  
  
1571 9.3 56949.3 -0517.7  
1572 9.9 56949.3 -0517.7  
1573 9.6 56949.3 -0517.7  
1574 9.7 56949.3 -0517.7  
1575 10.1 56949.3 -0517.7  
1576 7.1 56949.3 -0517.7  
1577 9.6 56949.3 -0517.7  
1578 9.1 56949.3 -0517.7  
1579 10.1 56949.3 -0517.7  
1580 9.8 56949.3 -0517.7

-05 1580 6h11m



-05 1581 6h11m

1581 8.3 61142.9 -0500.4  
1582 8.9 61144.1 -0512.2  
1583 9.4 61146.5 -0544.0  
1584 9.1 61211.0 -0509.1  
1585 9.3 61216.7 -0513.5  
1586 9.1 61228.4 -0540.7  
1587 10.1 61233.3 -0550.4  
1588 9.0 61235.4 -0514.0  
1589 9.5 61240.6 -0513.3  
1590 9.0 61247.0 -0505.5  
  
1591 9.0 61258.8 -0532.1  
1592 9.5 61300.0 -0556.7  
1593 9.3 61306.1 -0531.9  
1594 8.5 61316.8 -0552.7  
1595 9.3 61318.9 -0509.3  
1596 9.8 61323.6 -0511.7  
1597 9.0 61328.4 -0556.4  
1598 9.3 61335.7 -0553.1  
1599 9.0 61401.9 -0540.6  
1600 9.8 61402.0 -0526.0  
  
1601 9.1 61410.1 -0559.0  
1602 8.5 61435.9 -0514.4  
1603 9.3 61437.4 -0558.5  
1604 8.6 61439.8 -0538.4  
1605 9.6 61451.1 -0543.6  
1606 8.2 61455.9 -0523.0  
1607 8.5 61503.2 -0506.4  
1608 8.7 61505.1 -0512.6  
1609 8.3 61523.1 -0501.4  
1610 9.0 61525.3 -0552.0  
  
1611 9.8 61532.2 -0524.0  
1612 8.5 61540.0 -0521.1  
1613 9.1 61542.6 -0533.1  
1614 9.0 61545.7 -0538.0  
1615 9.3 61549.8 -0559.2  
1616 9.0 61601.9 -0523.3  
1617 9.8 61624.6 -0511.8  
1618 9.9 61633.7 -0547.4  
1619 9.6 61653.2 -0550.4  
1620 9.8 61705.5 -0500.9  
  
1621 9.5 61714.9 -0556.0  
1622 9.0 61716.8 -0521.1  
1623 9.5 61722.2 -0536.6  
1624 9.1 61722.7 -0526.3  
1625 9.4 61735.0 -0555.1  
1626 9.8 61738.8 -0539.7  
1627 8.0 61740.4 -0525.2  
1628 8.8 61755.5 -0533.9  
1629 8.3 61801.8 -0546.5  
1630 9.8 61815.8 -0540.6  
  
1631 9.4 61835.7 -0546.1  
1632 9.1 61838.1 -0529.8  
1633 9.5 61915.5 -0542.2  
1634 9.8 61917.0 -0527.8  
1635 10.1 61917.6 -0552.7  
1636 10.1 61939.8 -0547.0  
1637 10.1 61944.0 -0526.5  
1638 9.8 61945.2 -0513.3  
1639 9.9 61953.1 -0559.1  
1640 9.7 62019.3 -0521.2  
  
1641 9.4 62027.6 -0522.9  
1642 9.0 62036.9 -0551.5  
1643 9.5 62038.3 -0520.5  
1644 8.5 62043.2 -0504.2  
1645 9.7 62052.7 -0553.9  
1646 9.9 62115.0 -0533.9  
1647 9.4 62122.4 -0540.0  
1648 9.7 62155.5 -0550.4  
1649 8.7 62157.6 -0529.1  
1650 9.0 62201.5 -0526.6  
  
1651 9.0 62207.3 -0539.0  
1652 9.8 62235.2 -0536.4  
1653 9.6 62237.0 -0558.1  
1654 9.4 62244.2 -0547.1  
1655 9.0 62247.4 -0529.2  
1656 9.5 62257.8 -0550.9  
1657 9.3 62306.4 -0551.1  
1658 9.5 62307.9 -0529.2  
1659 9.3 62308.1 -0509.5  
1660 9.8 62325.4 -0556.2  
  
1661 9.0 62327.0 -0508.5  
1662 9.0 62349.4 -0546.8  
1663 9.4 62352.1 -0502.8  
1664 10.1 62354.5 -0547.0  
1665 9.4 62357.5 -0507.4  
1666 8.0 62428.5 -0516.3  
1667 9.4 62436.8 -0550.9  
1668 9.7 62437.4 -0543.7  
1669 8.8 62441.5 -0514.9  
1670 10.1 62448.8 -0531.3

1671 9.8 62451.1 -0530.7  
1672 10.1 62451.7 -0515.7  
1673 10.1 62500.0 -0539.0  
1674 9.0 62500.6 -0542.0  
1675 9.4 62504.8 -0538.4  
1676 10.1 62513.7 -0517.4  
1677 9.3 62515.0 -0540.1  
1678 5.7 62516.9 -0546.2  
1679 9.8 62518.5 -0512.8  
1680 7.9 62532.0 -0514.2  
  
1681 9.4 62540.2 -0545.8  
1682 9.5 62549.8 -0553.0  
1683 9.5 62611.6 -0531.2  
1684 9.3 62612.0 -0546.0  
1685 9.4 62625.7 -0510.2  
1686 9.5 62701.1 -0521.5  
1687 9.0 62701.7 -0555.1  
1688 9.8 62705.6 -0553.7  
1689 8.3 62710.2 -0513.0  
1690 10.1 62733.7 -0518.8  
  
1691 9.8 62736.1 -0546.9  
1692 10.1 62742.5 -0549.2  
1693 10.1 62757.1 -0507.0  
1694 9.3 62804.9 -0526.4  
1695 8.9 62806.9 -0528.4  
1696 9.8 62813.1 -0510.8  
1697 9.4 62823.3 -0552.8  
1698 9.0 62837.9 -0542.6  
1699 8.2 62838.3 -0516.6  
1700 9.3 62840.3 -0545.5  
  
1701 9.8 62852.4 -0553.0  
1702 9.4 62901.6 -0558.6  
1703 8.4 62906.1 -0541.9  
1704 9.5 62906.7 -0511.5  
1705 9.5 62911.0 -0558.3  
1706 9.5 62912.4 -0522.4  
1707 9.0 62917.0 -0554.7  
1708 9.6 62918.7 -0546.2  
1709 9.5 62920.6 -0547.7  
1710 5.8 62926.9 -0505.7  
  
1711 10.1 63020.5 -0543.0  
1712 10.1 63020.9 -0548.5  
1713 10.1 63025.6 -0532.4  
1714 9.5 63032.8 -0505.1  
1715 9.2 63035.5 -0540.9  
1716 8.8 63048.5 -0525.0  
1717 9.0 63050.4 -0554.5  
1718 9.4 63055.4 -0523.7  
1719 9.0 63105.5 -0545.8  
1720 9.2 63108.8 -0518.2  
  
1721 10.1 63115.2 -0544.4  
1722 9.8 63121.1 -0500.5  
1723 9.5 63125.0 -0554.2  
1724 8.5 63135.6 -0510.5  
1725 9.4 63137.7 -0557.7  
1726 8.8 63153.1 -0540.2  
1727 9.9 63201.8 -0544.3  
1728 9.0 63233.8 -0515.4  
1729 9.1 63237.1 -0549.3  
1730 9.3 63239.7 -0542.8  
  
1731 9.1 63240.7 -0516.1  
1732 9.5 63244.0 -0544.2  
1733 9.3 63251.2 -0541.0  
1734 9.7 63251.2 -0517.7  
1735 8.0 63300.6 -0509.9  
1736 9.2 63303.8 -0504.2  
1737 9.7 63307.4 -0543.2  
1738 9.7 63318.6 -0533.5  
1739 9.3 63328.0 -0553.9  
1740 9.5 63331.5 -0525.6  
  
1741 9.8 63337.2 -0525.0  
1742 10.1 63337.4 -0538.0  
1743 9.1 63359.4 -0541.5  
1744 8.8 63366.9 -0524.0  
1745 10.1 63355.0 -0555.9  
1746 9.8 63354.6 -0531.5  
1747 7.7 63402.2 -0534.3  
1748 9.0 63409.0 -0545.1  
1749 9.6 63410.4 -0543.2  
1750 10.1 63441.2 -0512.2  
  
1751 9.0 63458.7 -0517.7  
1752 9.4 63459.1 -0501.2  
1753 7.0 63500.0 -0558.5  
1754 9.4 63505.2 -0513.9  
1755 9.2 63522.0 -0558.8  
1756 9.8 63525.4 -0505.0  
1757 10.1 63529.9 -0552.5  
1758 9.8 63544.9 -0552.9  
1759 9.0 63545.6 -0542.7  
1760 9.9 63605.7 -0504.0

1761 9.8 63609.4 -0525.8  
1762 9.2 63613.8 -0514.6  
1763 9.0 63617.3 -0534.0  
1764 9.6 63628.5 -0556.8  
1765 9.2 63633.0 -0500.1  
1766 10.1 63646.9 -0545.5  
1767 9.3 63648.2 -0544.0  
1768 9.8 63656.2 -0512.4  
1769 9.3 63709.3 -0515.1  
1770 9.2 63714.8 -0523.3  
  
1771 9.0 63715.8 -0558.0  
1772 9.2 63716.2 -0544.2  
1773 9.8 63722.7 -0536.6  
1774 9.1 63725.7 -0546.2  
1775 9.4 63744.9 -0519.4  
1776 10.1 63747.1 -0541.8  
1777 8.0 63753.9 -0547.7  
1778 9.6 63802.8 -0526.1  
1779 10.1 63818.9 -0503.8  
1780 9.3 63819.7 -0510.5  
  
1781 9.8 63829.0 -0526.5  
1782 9.8 63830.3 -0536.0  
1783 10.1 63832.0 -0507.3  
1784 9.8 63832.7 -0513.3  
1785 9.5 63837.8 -0549.9  
1786 9.0 63849.3 -0529.2  
1787 9.8 63851.7 -0522.7  
1788 9.5 63858.1 -0518.9  
1789 9.8 63858.6 -0558.4  
1790 9.0 63903.8 -0500.8  
  
1791 8.2 63905.6 -0505.3  
1792 9.0 63906.6 -0519.5  
1793 9.5 63912.8 -0507.5  
1794 9.8 63918.8 -0537.0  
1795 10.1 63925.3 -0549.5  
1796 9.2 63935.5 -0523.4  
1797 8.0 63941.6 -0549.7  
1798 10.1 63948.6 -0527.0  
1799 9.1 64000.7 -0507.5  
1800 9.0 64005.5 -0527.6  
  
1801 9.7 64008.2 -0540.1  
1802 9.3 64008.9 -0528.8  
1803 8.8 64009.8 -0550.3  
1804 10.1 64011.7 -0510.6  
1805 9.1 64015.3 -0541.3  
1806 9.5 64102.9 -0504.1  
1807 9.7 64104.9 -0500.7  
1808 9.7 64128.2 -0535.4  
1809 9.1 64136.7 -0549.0  
1810 9.5 64141.0 -0549.7  
  
1811 9.8 64112.7 -0512.8  
1812 9.9 64233.4 -0542.5  
1813 10.1 64235.5 -0556.9  
1814 9.1 64238.0 -0554.4  
1815 7.5 64248.9 -0520.9  
1816 9.4 64256.3 -0536.3  
1817 9.7 64257.0 -0547.3  
1818 9.5 64258.1 -0514.0  
1819 10.1 64259.1 -0543.5  
1820 8.5 64300.2 -0528.8  
  
1821 8.9 64305.6 -0559.4  
1822 10.1 64314.6 -0548.1  
1823 9.7 64323.0 -0548.4  
1824 9.4 64326.1 -0514.7  
1825 9.4 64324.1 -0539.5  
1826 9.8 64340.8 -0538.9  
1827 9.1 64347.7 -0540.8  
1828 9.5 64354.7 -0511.3  
1829 9.1 64357.4 -0541.9  
1830 9.5 64408.4 -0548.2  
  
1831 10.1 64412.0 -0543.6  
1832 9.7 64417.0 -0547.2  
1833 9.0 64420.9 -0544.5  
1834 9.5 64427.0 -0504.5  
1835 9.1 64438.9 -0501.9  
1836 8.5 64439.9 -0518.8  
1837 9.1 64443.1 -0527.3  
1838 9.8 64503.6 -0548.7  
1839 7.2 64504.8 -0518.5  
1840 9.6 64505.3 -0526.0  
  
1841 9.8 64508.5 -0500.5  
1842 9.2 64511.0 -0523.7  
1843 9.4 64512.5 -0521.2  
1844 6.9 64514.5 -0506.2  
1845 6.3 64515.7 -0508.7  
1846 9.1 64517.4 -0550.6  
1847 9.1 64522.5 -0542.2  
1848 9.0 64523.0 -0551.1  
1849 9.6 64524.9 -0543.1  
1850 9.0 64528.7 -0533.9

1851 9.0 64534.8 -0515.4  
1852 9.8 64556.0 -0524.1  
1853 9.7 64603.1 -0552.3  
1854 8.8 64605.8 -0526.5  
1855 9.3 64607.1 -0547.6  
1856 8.3 64607.5 -0547.2  
1857 9.1 64610.1 -0529.8  
1858 9.5 64632.4 -0524.2  
1859 9.5 64638.5 -0524.4  
1860 9.1 64638.5 -0500.3  
  
1861 9.8 64649.3 -0513.1  
1862 9.5 64659.6 -0524.7  
1863 6.4 64702.1 -0540.3  
1864 8.0 64707.9 -0550.5  
1865 9.5 64708.4 -0516.8  
1866 9.5 64710.2 -0521.2  
1867 9.1 64710.9 -0527.9  
1868 8.7 64746.1 -0529.6  
1869 9.1 64756.0 -0524.7  
1870 9.5 64814.0 -0527.3  
  
1871 9.2 64819.3 -0544.7  
1872 9.2 64833.8 -0502.3  
1873 9.0 64854.5 -0535.7  
1874 9.6 64858.3 -0534.1  
1875 10.1 64859.5 -0557.2  
1876 9.7 64908.8 -0556.9  
1877 9.5 64927.4 -0519.1  
1878 9.0 64936.1 -0526.5  
1879 9.6 64941.9 -0544.9  
1880 9.6 64942.1 -0546.5  
  
1881 8.5 64944.8 -0517.4  
1882 8.5 64945.4 -0509.8  
1883 9.8 64948.2 -0512.0  
1884 9.3 64949.9 -0552.9  
1885 9.1 65009.0 -0554.0  
1886 9.0 65010.4 -0551.8  
1887 9.1 65015.1 -0558.3  
1888 8.7 65015.3 -0512.9  
1889 9.1 65019.6 -0558.5  
1890 9.8 65028.9 -0517.4  
  
1891 9.1 65029.6 -0527.3  
1892 9.0 65032.3 -0515.8  
1893 9.2 65115.2 -0537.1  
1894 9.4 65116.1 -0536.7  
1895 9.5 65119.3 -0534.6  
1896 9.5 65121.2 -0546.0  
1897 10.1 65124.3 -0534.3  
1898 9.5 65152.6 -0559.1  
1899 9.0 65159.7 -0512.5  
1900 8.2 65212.3 -0513.0  
  
1901 9.0 65221.5 -0523.2  
1902 9.2 65225.6 -0552.1  
1903 9.2 65227.6 -0529.2  
1904 9.8 65230.7 -0510.5  
1905 9.4 65247.9 -0549.4  
1906 9.4 65254.7 -0517.9  
1907 8.7 65301.6 -0559.5  
1908 9.3 65317.7 -0511.0  
1909 9.5 65320.5 -0500.6  
1910 6.5 65311.1 -0510.0  
  
1911 9.0 65312.1 -0551.4  
1912 7.3 65313.3 -0527.3  
1913 9.0 65324.3 -0517.3  
1914 9.8 65331.4 -0519.2  
1915 9.5 65337.1 -0506.2  
1916 9.4 65342.2 -0505.3  
1917 9.1 65406.4 -0545.5  
1918 10.1 65414.3 -0533.0  
1919 9.5 65416.1 -0539.7  
1920 9.5 65416.6 -0510.7  
  
1921 8.3 65419.1 -0557.2  
1922 9.8 65423.7 -0527.5  
1923 9.0 65424.4 -0503.4  
1924 9.3 65435.2 -0545.5  
1925 9.1 65438.1 -0512.2  
1926 5.0 65449.5 -0531.2  
1927 7.3 65460.2 -0549.0  
1928 9.8 65468.4 -0529.6  
1929 9.8 65472.0 -0526.0  
1930 9.5 65473.0 -0500.8  
  
1931 9.4 65540.0 -0501.1  
1932 9.3 65549.2 -0525.3  
1933 9.8 65554.6 -0537.6  
1934 10.1 65609.5 -0557.1  
1935 9.8 65611.1 -0531.7  
1936 9.4 65614.3 -0504.3  
1937 9.5 65616.7 -0526.8  
1938 9.5 65617.0 -0515.0  
1939 9.6 65618.8 -0550.1  
1940 9.5 65619.0 -0527.5

-05 1940 6h56m



-05 1941 6h56m

-05 2300 7h49m

|                          |                          |                          |                          |
|--------------------------|--------------------------|--------------------------|--------------------------|
| 1941 9.5 65637.4 -0559.3 | 2031 9.8 70707.1 -0539.5 | 2121 9.2 72002.2 -0517.3 | 2211 9.5 73403.2 -0504.7 |
| 1942 9.0 65654.5 -0536.9 | 2032 9.5 70719.0 -0558.0 | 2122 9.4 72003.8 -0546.6 | 2212 9.4 73405.8 -0508.8 |
| 1943 5.8 65657.6 -0506.8 | 2033 9.5 70728.2 -0504.3 | 2123 9.5 72004.1 -0551.0 | 2213 9.1 73429.5 -0547.0 |
| 1944 9.8 65710.9 -0554.9 | 2034 9.3 70739.7 -0501.2 | 2124 9.8 72035.4 -0550.2 | 2214 9.8 73438.3 -0529.5 |
| 1945 8.7 65711.1 -0505.3 | 2035 9.5 70750.5 -0504.8 | 2125 9.4 72049.7 -0508.7 | 2215 10. 73443.1 -0524.0 |
| 1946 9.3 65716.2 -0550.1 | 2036 9.8 70753.3 -0515.7 | 2126 9.8 72056.6 -0559.6 | 2216 8.2 73452.7 -0527.5 |
| 1947 9.8 65720.4 -0514.2 | 2037 8.3 70837.8 -0546.2 | 2127 8.7 72108.3 -0540.4 | 2217 9.5 73500.5 -0544.0 |
| 1948 9.8 65723.6 -0530.0 | 2038 9.5 70819.2 -0518.9 | 2128 9.8 72123.7 -0553.6 | 2218 8.7 73526.6 -0524.7 |
| 1949 10. 65728.5 -0521.5 | 2039 9.5 70835.7 -0512.6 | 2129 9.6 72126.2 -0501.1 | 2219 9.5 73545.2 -0525.4 |
| 1950 9.3 65730.0 -0521.3 | 2040 9.5 70835.6 -0530.3 | 2130 9.3 72127.9 -0550.1 | 2220 9.2 73549.2 -0528.7 |
| 1951 9.2 65730.7 -0543.1 | 2041 9.5 70843.5 -0504.6 | 2131 9.4 72137.2 -0523.7 | 2221 9.2 73617.2 -0509.6 |
| 1952 9.5 65744.3 -0515.0 | 2042 9.5 70845.0 -0526.1 | 2132 9.2 72141.2 -0523.9 | 2222 9.0 73625.3 -0520.1 |
| 1953 10. 65745.7 -0544.8 | 2043 9.1 70853.6 -0558.6 | 2133 9.2 72155.2 -0503.3 | 2223 8.8 73632.7 -0558.2 |
| 1954 9.0 65747.2 -0533.5 | 2044 9.0 70902.2 -0532.7 | 2134 9.5 72203.4 -0553.6 | 2224 9.1 73644.7 -0511.1 |
| 1955 9.0 65750.5 -0548.0 | 2045 10. 70921.1 -0545.6 | 2135 9.4 72211.6 -0544.4 | 2225 8.5 73646.8 -0519.7 |
| 1956 8.9 65751.3 -0534.4 | 2046 9.4 70923.8 -0502.4 | 2136 9.3 72212.0 -0545.4 | 2226 9.3 73650.6 -0547.7 |
| 1957 9.0 65802.1 -0525.9 | 2047 9.5 70924.5 -0551.1 | 2137 8.7 72226.7 -0518.4 | 2227 9.3 73650.6 -0551.1 |
| 1958 9.8 65813.2 -0538.8 | 2048 9.0 70931.8 -0555.9 | 2138 9.5 72240.2 -0529.3 | 2228 9.4 73658.9 -0553.3 |
| 1959 9.6 65821.5 -0535.2 | 2049 9.8 70951.6 -0506.7 | 2139 9.5 72245.4 -0558.9 | 2229 9.0 73701.2 -0530.6 |
| 1960 10. 65827.1 -0543.4 | 2050 7.9 70955.5 -0558.7 | 2140 9.7 72318.7 -0517.6 | 2230 8.6 73717.8 -0501.8 |
| 1961 9.7 65840.4 -0551.6 | 2051 8.7 71002.4 -0539.3 | 2141 9.8 72332.3 -0521.4 | 2231 8.8 73744.5 -0512.5 |
| 1962 9.7 65853.9 -0546.0 | 2052 9.8 71013.4 -0523.2 | 2142 9.3 72359.8 -0501.4 | 2232 9.5 73751.8 -0514.9 |
| 1963 9.7 65854.8 -0559.0 | 2053 9.5 71017.5 -0526.5 | 2143 9.0 72400.3 -0542.7 | 2233 9.5 73805.4 -0521.8 |
| 1964 9.4 65917.6 -0548.4 | 2054 9.5 71021.9 -0511.7 | 2144 9.1 72400.7 -0550.9 | 2234 9.4 73811.2 -0516.0 |
| 1965 9.0 65922.0 -0558.9 | 2055 7.3 71024.5 -0533.8 | 2145 8.4 72405.7 -0502.8 | 2235 9.8 73825.1 -0542.8 |
| 1966 8.4 65930.6 -0546.2 | 2056 9.1 71026.3 -0527.9 | 2146 9.5 72413.7 -0541.8 | 2236 9.4 73826.7 -0537.3 |
| 1967 8.0 65951.0 -0514.9 | 2057 9.1 71027.0 -0542.3 | 2147 9.7 72418.2 -0549.0 | 2237 7.0 73834.3 -0519.7 |
| 1968 9.6 65952.0 -0502.7 | 2058 10. 71037.1 -0555.8 | 2148 8.7 72439.2 -0516.5 | 2238 9.5 73852.2 -0502.7 |
| 1969 9.5 65955.5 -0558.3 | 2059 9.3 71054.1 -0503.1 | 2149 9.0 72440.8 -0528.0 | 2239 10. 73855.1 -0557.4 |
| 1970 9.0 70004.4 -0529.7 | 2060 9.8 71054.0 -0552.6 | 2150 9.4 72444.5 -0555.1 | 2240 9.5 73904.5 -0504.5 |
| 1971 9.5 70005.2 -0500.3 | 2061 9.0 71107.4 -0528.9 | 2151 9.5 72445.8 -0527.1 | 2241 9.5 73914.7 -0555.2 |
| 1972 9.6 70009.5 -0541.9 | 2062 9.4 71127.6 -0516.6 | 2152 9.8 72449.7 -0524.2 | 2242 8.3 73921.5 -0505.7 |
| 1973 9.5 70010.4 -0504.5 | 2063 9.5 71136.9 -0554.5 | 2153 7.3 72451.2 -0538.0 | 2243 8.0 73927.7 -0559.1 |
| 1974 9.8 70020.3 -0520.3 | 2064 9.8 71148.2 -0553.3 | 2154 9.3 72501.6 -0552.0 | 2244 9.1 73941.5 -0501.2 |
| 1975 8.7 70022.7 -0552.9 | 2065 8.5 71150.2 -0510.2 | 2155 9.3 72501.9 -0555.6 | 2245 9.2 73944.5 -0501.0 |
| 1976 9.9 70036.3 -0515.6 | 2066 9.5 71207.3 -0507.5 | 2156 9.6 72507.3 -0511.1 | 2246 9.4 74007.3 -0521.8 |
| 1977 9.7 70051.5 -0547.7 | 2067 9.5 71220.3 -0528.9 | 2157 9.4 72510.7 -0501.8 | 2247 9.5 74013.2 -0514.5 |
| 1978 9.4 70053.3 -0553.5 | 2068 9.1 71231.2 -0538.5 | 2158 9.3 72526.8 -0519.8 | 2248 9.8 74027.1 -0554.5 |
| 1979 9.8 70103.6 -0530.0 | 2069 9.2 71234.6 -0501.0 | 2159 9.2 72533.7 -0538.7 | 2249 9.4 74029.3 -0514.0 |
| 1980 9.5 70105.7 -0539.1 | 2070 9.0 71246.1 -0545.9 | 2160 9.5 72535.2 -0544.8 | 2250 9.3 74030.5 -0502.0 |
| 1981 9.1 70106.0 -0525.4 | 2071 9.3 71305.4 -0541.9 | 2161 9.3 72541.5 -0541.0 | 2251 8.8 74033.9 -0541.3 |
| 1982 9.5 70124.6 -0512.2 | 2072 8.8 71306.5 -0557.0 | 2162 9.6 72547.7 -0535.2 | 2252 9.8 74041.5 -0541.7 |
| 1983 9.8 70131.2 -0516.3 | 2073 7.8 71306.9 -0552.1 | 2163 9.7 72558.9 -0558.1 | 2253 9.0 74047.7 -0506.4 |
| 1984 9.0 70131.3 -0518.0 | 2074 8.8 71325.6 -0545.9 | 2164 9.6 72615.4 -0502.0 | 2254 9.8 74054.6 -0556.8 |
| 1985 9.5 70139.8 -0551.2 | 2075 7.5 71342.9 -0552.1 | 2165 7.3 72626.5 -0555.0 | 2255 8.5 74057.2 -0532.7 |
| 1986 9.8 70141.4 -0535.4 | 2076 9.1 71345.3 -0505.0 | 2166 9.7 72635.0 -0536.2 | 2256 9.5 74100.8 -0519.3 |
| 1987 9.0 70155.3 -0523.3 | 2077 8.8 71356.2 -0531.5 | 2167 9.5 72700.6 -0535.1 | 2257 8.9 74116.7 -0517.8 |
| 1988 9.8 70202.4 -0558.3 | 2078 9.3 71358.5 -0545.0 | 2168 9.1 72707.6 -0537.6 | 2258 8.4 74132.0 -0542.8 |
| 1989 10. 70210.2 -0516.5 | 2079 9.5 71419.3 -0520.0 | 2169 9.4 72711.2 -0534.0 | 2259 9.5 74145.1 -0550.5 |
| 1990 9.6 70211.0 -0547.9 | 2080 7.0 71427.7 -0537.7 | 2170 10. 72731.8 -0533.4 | 2260 9.4 74155.6 -0541.0 |
| 1991 9.8 70213.0 -0512.7 | 2081 9.8 71431.7 -0506.2 | 2171 9.7 72733.1 -0542.8 | 2261 9.5 74233.4 -0556.1 |
| 1992 9.5 70218.9 -0543.1 | 2082 9.1 71436.4 -0510.0 | 2172 9.4 72735.7 -0538.0 | 2262 10. 74236.9 -0500.8 |
| 1993 7.9 70226.0 -0548.8 | 2083 9.1 71443.8 -0550.9 | 2173 8.5 72744.2 -0507.0 | 2263 9.2 74239.1 -0553.6 |
| 1994 9.0 70227.7 -0526.9 | 2084 9.3 71444.3 -0536.6 | 2174 9.8 72749.1 -0551.6 | 2264 9.5 74253.7 -0522.0 |
| 1995 9.2 70228.1 -0537.8 | 2085 9.0 71454.2 -0533.3 | 2175 9.1 72819.7 -0539.9 | 2265 9.2 74314.3 -0541.1 |
| 1996 9.5 70234.1 -0540.0 | 2086 8.2 71454.9 -0518.1 | 2176 9.4 72819.8 -0541.1 | 2266 9.3 74326.8 -0507.0 |
| 1997 8.2 70245.1 -0530.7 | 2087 9.0 71502.3 -0551.4 | 2177 9.8 72857.6 -0512.1 | 2267 7.0 74328.5 -0526.8 |
| 1998 9.1 70307.5 -0534.9 | 2088 9.4 71503.0 -0528.3 | 2178 8.2 72859.3 -0527.9 | 2268 9.1 74331.2 -0505.3 |
| 1999 10. 70309.8 -0553.9 | 2089 5.9 71519.1 -0542.2 | 2179 9.1 72908.7 -0552.4 | 2269 9.3 74334.4 -0541.4 |
| 2000 9.4 70314.9 -0511.7 | 2090 9.5 71525.6 -0523.6 | 2180 9.6 72912.8 -0544.2 | 2270 8.9 74338.5 -0501.3 |
| 2001 9.5 70318.9 -0512.0 | 2091 9.1 71548.4 -0540.2 | 2181 9.1 72923.3 -0521.7 | 2271 9.6 74345.8 -0536.1 |
| 2002 9.8 70325.0 -0557.4 | 2092 8.8 71612.3 -0521.6 | 2182 9.5 72941.7 -0552.1 | 2272 9.6 74349.7 -0535.8 |
| 2003 9.7 70343.5 -0525.3 | 2093 9.2 71615.7 -0512.2 | 2183 9.0 72953.2 -0555.5 | 2273 9.2 74357.1 -0538.9 |
| 2004 9.0 70345.6 -0534.4 | 2094 9.6 71632.4 -0550.5 | 2184 9.2 73002.2 -0529.7 | 2274 9.5 74423.2 -0537.1 |
| 2005 9.3 70350.6 -0505.2 | 2095 8.7 71632.7 -0511.4 | 2185 9.8 73017.2 -0511.9 | 2275 9.5 74452.5 -0542.0 |
| 2006 8.9 70359.9 -0513.7 | 2096 9.2 71702.8 -0545.0 | 2186 9.9 73026.1 -0556.0 | 2276 9.1 74455.7 -0510.1 |
| 2007 9.7 70422.0 -0507.3 | 2097 9.5 71715.8 -0521.6 | 2187 8.7 73037.0 -0552.8 | 2277 8.5 74526.1 -0532.8 |
| 2008 9.0 70423.2 -0521.1 | 2098 9.4 71722.6 -0531.1 | 2188 9.3 73044.5 -0542.5 | 2278 9.0 74526.7 -0538.4 |
| 2009 9.5 70432.5 -0534.5 | 2099 10. 71729.7 -0503.1 | 2189 9.1 73053.3 -0523.3 | 2279 9.6 74531.3 -0541.7 |
| 2010 9.7 70438.0 -0501.5 | 2100 9.9 71734.6 -0557.5 | 2190 9.0 73058.3 -0520.8 | 2280 5.7 74538.7 -0503.2 |
| 2011 8.5 70443.0 -0526.2 | 2101 9.5 71743.3 -0500.6 | 2191 9.3 73059.5 -0523.3 | 2281 9.3 74608.7 -0535.3 |
| 2012 9.3 70455.9 -0540.9 | 2102 9.1 71754.0 -0514.5 | 2192 9.0 73103.0 -0514.5 | 2282 9.8 74610.9 -0553.7 |
| 2013 9.1 70458.4 -0512.6 | 2103 9.0 71801.2 -0514.6 | 2193 9.3 73104.7 -0519.0 | 2283 9.7 74613.3 -0544.4 |
| 2014 8.2 70502.1 -0512.0 | 2104 8.6 71801.8 -0527.6 | 2194 8.6 73120.2 -0528.0 | 2284 7.8 74641.1 -0541.5 |
| 2015 9.4 70511.5 -0555.5 | 2105 9.8 71804.3 -0527.1 | 2195 9.4 73136.5 -0542.2 | 2285 9.4 74643.8 -0556.8 |
| 2016 9.3 70512.2 -0511.8 | 2106 9.9 71812.9 -0512.8 | 2196 7.8 73140.3 -0508.3 | 2286 9.8 74659.3 -0519.7 |
| 2017 9.5 70516.5 -0506.2 | 2107 10. 71813.0 -0517.0 | 2197 10. 73148.6 -0553.9 | 2287 9.4 74700.2 -0530.6 |
| 2018 9.2 70522.9 -0520.9 | 2108 9.7 71820.5 -0547.1 | 2198 8.8 73158.8 -0520.7 | 2288 9.5 74710.3 -0522.0 |
| 2019 9.8 70552.7 -0511.5 | 2109 9.3 71821.4 -0501.1 | 2199 9.4 73206.2 -0529.9 | 2289 9.4 74729.7 -0531.6 |
| 2020 9.8 70601.1 -0529.2 | 2110 9.8 71825.4 -0551.3 | 2200 9.4 73222.2 -0532.5 | 2290 9.5 74753.5 -0503.0 |
| 2021 10. 70602.7 -0545.2 | 2111 9.4 71833.6 -0528.6 | 2201 9.4 73235.7 -0505.7 | 2291 9.6 74815.6 -0531.1 |
| 2022 9.4 70608.2 -0513.0 | 2112 6.3 71844.2 -0529.1 | 2202 7.8 73242.6 -0555.0 | 2292 9.8 74821.6 -0532.7 |
| 2023 9.0 70609.7 -0545.6 | 2113 9.8 71906.5 -0505.0 | 2203 9.4 73304.6 -0549.4 | 2293 9.0 74824.2 -0539.3 |
| 2024 9.8 70615.8 -0502.8 | 2114 9.5 71909.3 -0538.0 | 2204 9.5 73305.3 -0515.1 | 2294 9.0 74828.0 -0549.5 |
| 2025 9.8 70617.0 -0505.5 | 2115 9.6 71912.7 -0516.6 | 2205 8.7 73307.9 -0544.8 | 2295 9.7 74844.9 -0531.3 |
| 2026 9.3 70630.7 -0513.2 | 2116 9.4 71919.8 -0520.1 | 2206 9.5 73318.7 -0512.2 | 2296 8.7 74849.8 -0508.0 |
| 2027 9.6 70638.2 -0514.0 | 2117 9.5 71937.9 -0523.2 | 2207 9.7 73322.2 -0501.6 | 2297 9.0 74850.6 -0526.0 |
| 2028 9.5 70648.9 -0525.5 | 2118 7.8 71939.2 -0534.7 | 2208 9.4 73329.7 -0523.4 | 2298 9.4 74854.5 -0548.9 |
| 2029 9.0 70649.4 -0543.4 | 2119 9.2 71941.4 -0551.6 | 2209 8.7 73339.2 -0524.9 | 2299 9.5 74906.4 -0503.1 |
| 2030 9.5 70653.9 -0549.3 | 2120 9.0 71949.3 -0514.3 | 2210 9.5 73402.2 -0526.5 | 2300 9.2 74912.8 -0521.6 |



-05 2301 7h49m

2301 9.0 74913.7 -0515.1  
2302 9.4 74926.2 -0510.4  
2303 8.4 74933.0 -0542.6  
2304 9.5 74936.2 -0539.5  
2305 9.4 74939.5 -0505.1  
2306 9.9 74944.1 -0527.9  
2307 9.5 74948.3 -0520.5  
2308 9.6 75009.7 -0505.5  
2309 9.5 75011.0 -0543.1  
2310 9.8 75014.6 -0508.2

2311 9.5 75028.6 -0555.0  
2312 9.0 75046.8 -0533.3  
2313 9.0 75056.2 -0539.7  
2314 9.5 75057.5 -0554.7  
2315 9.0 75114.6 -0541.9  
2316 9.5 75121.2 -0512.8  
2317 9.5 75129.1 -0530.0  
2318 9.0 75135.0 -0518.2  
2319 10. 75138.0 -0550.0  
2320 9.8 75208.9 -0542.4

2321 9.3 75212.3 -0500.2  
2322 9.8 75235.5 -0553.3  
2323 9.7 75249.8 -0523.9  
2324 9.7 75258.3 -0525.5  
2325 9.5 75308.7 -0527.0  
2326 9.3 75316.2 -0537.1  
2327 8.4 75321.2 -0504.4  
2328 9.1 75337.2 -0537.3  
2329 9.1 75354.0 -0550.5  
2330 9.8 75354.5 -0518.8

2331 9.4 75356.1 -0504.3  
2332 9.5 75432.6 -0557.3  
2333 9.2 75441.1 -0531.4  
2334 9.5 75443.2 -0538.3  
2335 9.5 75459.6 -0514.4  
2336 9.3 75500.6 -0530.8  
2337 9.8 75514.7 -0524.9  
2338 8.9 75516.2 -0505.1  
2339 6.5 75517.9 -0556.0  
2340 8.9 75523.2 -0524.9

2341 7.5 75538.6 -0555.4  
2342 8.8 75552.5 -0557.3  
2343 9.5 75557.0 -0527.4  
2344 8.7 75610.7 -0537.5  
2345 9.1 75614.4 -0526.4  
2346 9.8 75619.2 -0512.7  
2347 8.8 75635.5 -0516.4  
2348 9.0 75637.9 -0553.5  
2349 9.5 75646.8 -0549.2  
2350 9.4 75647.9 -0502.9

2351 9.4 75655.9 -0523.3  
2352 8.8 75733.4 -0541.6  
2353 7.0 75738.6 -0500.3  
2354 9.4 75747.1 -0551.8  
2355 9.8 75812.1 -0552.2  
2356 8.7 75820.8 -0508.3  
2357 9.0 75829.3 -0516.7  
2358 9.5 75831.2 -0500.9  
2359 9.4 75833.8 -0517.0  
2360 10. 75904.4 -0520.3

2361 9.5 75905.1 -0557.1  
2362 9.4 75920.1 -0520.0  
2363 8.8 75929.3 -0513.0  
2364 9.4 75937.9 -0505.8  
2365 9.5 75948.8 -0520.3  
2366 9.5 75959.3 -0522.8  
2367 9.3 80001.2 -0555.9  
2368 8.8 80033.3 -0524.8  
2369 9.7 80033.6 -0524.8  
2370 9.5 80028.8 -0521.5

2371 8.4 80031.4 -0543.9  
2372 9.2 80036.2 -0540.4  
2373 9.5 80037.3 -0535.5  
2374 9.8 80101.0 -0546.3  
2375 9.3 80112.5 -0520.5  
2376 9.8 80127.4 -0500.1  
2377 9.5 80139.3 -0532.3  
2378 9.0 80151.4 -0507.7  
2379 9.3 80209.1 -0544.6  
2380 9.7 80216.5 -0528.3

2381 8.1 80229.0 -0542.3  
2382 9.5 80231.3 -0525.1  
2383 9.8 80233.2 -0554.8  
2384 9.3 80235.9 -0503.9  
2385 10. 80242.0 -0559.3  
2386 8.8 80246.1 -0511.0  
2387 9.1 80248.9 -0552.4  
2388 9.2 80255.6 -0504.2  
2389 9.0 80306.3 -0525.4  
2390 9.1 80308.6 -0505.5

2391 9.0 80314.0 -0517.9  
2392 8.9 80336.8 -0524.5  
2393 9.5 80350.1 -0551.3  
2394 9.4 80421.6 -0554.3  
2395 7.5 80425.3 -0535.5  
2396 8.9 80433.8 -0500.0  
2397 9.1 80437.4 -0506.9  
2398 9.8 80458.5 -0537.1  
2399 8.0 80459.5 -0529.8  
2400 9.6 80502.2 -0500.2

2401 9.6 80503.5 -0507.6  
2402 9.4 80509.5 -0503.4  
2403 9.4 80526.4 -0514.1  
2404 9.3 80527.8 -0515.1  
2405 9.5 80527.9 -0510.8  
2406 9.9 80539.0 -0527.8  
2407 9.6 80540.8 -0524.9  
2408 9.6 80540.8 -0504.5  
2409 9.6 80544.2 -0550.9  
2410 9.6 80544.7 -0503.5

2411 9.1 80548.2 -0508.0  
2412 9.4 80554.7 -0527.0  
2413 9.1 80555.2 -0519.0  
2414 9.0 80558.5 -0512.5  
2415 9.6 80558.7 -0500.8  
2416 9.8 80602.6 -0520.3  
2417 9.8 80604.8 -0530.5  
2418 9.8 80606.4 -0515.3  
2419 8.6 80607.8 -0512.5  
2420 8.5 80609.4 -0507.5

2421 9.5 80613.1 -0519.3  
2422 9.6 80616.3 -0517.3  
2423 9.4 80617.2 -0523.9  
2424 9.3 80618.4 -0522.2  
2425 9.5 80621.3 -0537.7  
2426 9.5 80625.4 -0527.0  
2427 9.4 80627.7 -0535.5  
2428 9.3 80628.7 -0557.3  
2429 9.1 80630.5 -0521.2  
2430 9.1 80631.0 -0520.8

2431 9.8 80633.9 -0520.1  
2432 9.0 80635.2 -0522.6  
2433 9.0 80635.4 -0521.8  
2434 10. 80636.9 -0520.1  
2435 8.8 80637.8 -0518.6  
2436 8.6 80638.5 -0511.1  
2437 9.1 80639.2 -0518.3  
2438 9.3 80642.5 -0516.1  
2439 9.5 80644.4 -0532.4  
2440 9.5 80646.4 -0521.6

2441 10. 80649.8 -0524.6  
2442 9.5 80653.3 -0515.5  
2443 9.5 80653.7 -0530.6  
2444 9.1 80701.6 -0508.1  
2445 9.2 80704.1 -0542.8  
2446 9.0 80705.0 -0517.0  
2447 8.4 80707.3 -0528.1  
2448 9.8 80710.0 -0513.9  
2449 10. 80711.8 -0520.6  
2450 9.6 80714.1 -0505.0

2451 9.5 80716.1 -0518.4  
2452 9.4 80718.0 -0515.5  
2453 9.5 80718.4 -0536.1  
2454 9.5 80720.9 -0520.9  
2455 9.3 80733.5 -0500.9  
2456 9.5 80738.2 -0522.5  
2457 9.4 80739.2 -0557.0  
2458 9.5 80747.2 -0556.6  
2459 9.1 80749.4 -0506.0  
2460 9.4 80752.0 -0544.6

2461 9.0 80758.8 -0552.8  
2462 9.0 80803.1 -0552.5  
2463 8.3 80827.9 -0534.6  
2464 9.8 80836.7 -0529.1  
2465 8.4 80853.1 -0525.7  
2466 9.8 80853.6 -0510.4  
2467 9.2 80854.3 -0545.7  
2468 9.8 80855.4 -0513.0  
2469 9.5 80900.3 -0552.3  
2470 9.1 80903.0 -0519.9

2471 9.8 80919.0 -0551.2  
2472 9.4 80922.2 -0532.0  
2473 9.1 80934.8 -0506.7  
2474 8.5 80935.6 -0558.1  
2475 9.3 81002.7 -0530.4  
2476 9.1 81003.4 -0508.1  
2477 8.8 81010.9 -0512.7  
2478 9.8 81012.9 -0557.5  
2479 9.3 81014.3 -0533.4  
2480 9.4 81019.8 -0554.4

2481 9.1 81029.4 -0512.3  
2482 8.3 81044.2 -0558.0  
2483 9.4 81106.1 -0527.2  
2484 9.8 81115.5 -0518.8  
2485 9.8 81120.8 -0508.1  
2486 8.7 81135.4 -0544.3  
2487 9.5 81148.3 -0538.6  
2488 9.8 81152.6 -0522.3  
2489 7.1 81204.9 -0510.0  
2490 9.5 81214.6 -0558.0

2491 9.9 81218.6 -0556.7  
2492 9.8 81228.4 -0510.0  
2493 9.8 81230.1 -0526.5  
2494 9.6 81240.8 -0536.8  
2495 9.5 81244.0 -0503.1  
2496 9.5 81252.4 -0512.4  
2497 9.5 81300.2 -0559.5  
2498 10. 81315.1 -0556.6  
2499 9.8 81316.1 -0522.9  
2500 9.6 81348.3 -0539.8

2501 9.2 81348.8 -0503.8  
2502 8.8 81350.3 -0546.5  
2503 9.5 81401.0 -0518.3  
2504 8.9 81417.9 -0503.3  
2505 9.1 81424.3 -0533.9  
2506 9.0 81430.7 -0557.5  
2507 9.8 81448.4 -0512.0  
2508 9.4 81456.5 -0521.1  
2509 9.4 81500.9 -0514.2  
2510 9.8 81517.5 -0521.0

2511 9.3 81519.9 -0535.0  
2512 6.3 81521.6 -0542.9  
2513 9.2 81534.8 -0531.7  
2514 9.5 81548.8 -0506.1  
2515 9.3 81554.2 -0544.4  
2516 10. 81603.1 -0558.5  
2517 9.9 81645.9 -0542.5  
2518 8.5 81646.8 -0551.2  
2519 7.8 81701.4 -0512.8  
2520 9.0 81741.5 -0552.2

2521 9.4 81744.2 -0504.0  
2522 8.5 81800.0 -0509.5  
2523 8.6 81825.1 -0500.9  
2524 9.1 81844.8 -0512.1  
2525 8.8 81853.5 -0503.4  
2526 9.1 81900.4 -0516.2  
2527 8.6 81908.5 -0523.7  
2528 10. 81918.3 -0538.7  
2529 7.8 81945.4 -0543.8  
2530 7.0 82009.0 -0555.7

2531 9.8 82011.6 -0543.7  
2532 9.6 82014.1 -0506.4  
2533 9.8 82020.0 -0536.0  
2534 9.8 82021.9 -0544.0  
2535 9.0 82045.9 -0533.5  
2536 9.4 82046.7 -0506.9  
2537 9.0 82048.8 -0511.2  
2538 9.0 82051.0 -0526.8  
2539 9.5 82057.6 -0528.9  
2540 9.6 82100.3 -0546.0

2541 8.8 82128.8 -0514.7  
2542 9.5 82132.0 -0527.5  
2543 10. 82149.8 -0513.6  
2544 7.7 82155.7 -0523.6  
2545 8.8 82202.2 -0509.3  
2546 9.6 82217.8 -0515.9  
2547 8.7 82220.1 -0532.1  
2548 9.8 82226.2 -0509.6  
2549 9.5 82228.6 -0557.1  
2550 8.4 82231.8 -0550.3

2551 9.6 82233.5 -0523.3  
2552 9.6 82239.4 -0500.0  
2553 10. 82304.6 -0535.0  
2554 9.7 82305.0 -0548.5  
2555 9.8 82326.4 -0503.3  
2556 9.6 82331.5 -0531.8  
2557 9.2 82337.4 -0555.3  
2558 9.6 82356.5 -0528.6  
2559 9.8 82401.4 -0551.7  
2560 9.5 82405.9 -0542.6

2561 9.7 82409.2 -0539.2  
2562 9.3 82411.8 -0530.4  
2563 9.1 82423.1 -0535.9  
2564 9.1 82432.7 -0549.9  
2565 9.3 82453.8 -0522.2  
2566 7.7 82524.9 -0524.7  
2567 8.9 82551.3 -0549.8  
2568 9.3 82611.8 -0551.5  
2569 9.5 82615.7 -0501.5  
2570 9.2 82624.1 -0531.7

-05 2660 8h47m

2571 10. 82628.4 -0534.0  
2572 8.7 82645.0 -0532.1  
2573 8.3 82646.4 -0545.2  
2574 8.3 82650.9 -0559.0  
2575 10. 82702.3 -0501.4  
2576 9.5 82706.2 -0546.5  
2577 9.6 82715.4 -0522.7  
2578 9.2 82739.6 -0534.4  
2579 9.8 82741.3 -0553.4  
2580 9.8 82747.5 -0557.0

2581 9.8 82750.6 -0547.7  
2582 9.3 82812.5 -0503.2  
2583 9.6 82821.9 -0545.7  
2584 9.3 82828.4 -0545.7  
2585 9.5 82833.4 -0501.5  
2586 9.8 82837.4 -0523.7  
2587 10. 82914.3 -0512.2  
2588 10. 82919.9 -0521.9  
2589 9.3 82924.9 -0506.9  
2590 8.2 83011.4 -0558.4

2591 9.3 83024.2 -0542.1  
2592 9.1 83033.8 -0502.7  
2593 9.8 83041.2 -0548.6  
2594 9.5 83059.6 -0537.7  
2595 9.8 83114.7 -0508.4  
2596 9.8 83117.8 -0542.3  
2597 9.3 83122.3 -0517.4  
2598 9.0 83126.6 -0545.1  
2599 8.9 83128.4 -0555.3  
2600 9.1 83134.3 -0519.6

2601 8.3 83137.0 -0525.8  
2602 8.5 83141.9 -0540.2  
2603 9.5 83250.1 -0558.0  
2604 9.5 83258.1 -0548.4  
2605 9.6 83302.4 -0557.5  
2606 9.0 83303.9 -0524.2  
2607 9.7 83313.7 -0543.9  
2608 9.1 83332.2 -0510.8  
2609 8.3 83438.5 -0505.8  
2610 9.7 83443.2 -0544.9

2611 10. 83500.4 -0558.5  
2612 9.5 83543.8 -0518.0  
2613 9.5 83555.7 -0516.2  
2614 9.9 83605.5 -0533.1  
2615 10. 83634.2 -0509.7  
2616 8.3 83637.4 -0530.6  
2617 9.5 83640.6 -0538.0  
2618 8.9 83645.3 -0519.0  
2619 8.0 83648.1 -0558.8  
2620 8.3 83715.8 -0541.1

2621 9.6 83748.0 -0500.5  
2622 9.5 83818.9 -0525.7  
2623 9.2 83901.1 -0537.7  
2624 9.0 83908.0 -0528.6  
2625 8.0 83912.0 -0553.0  
2626 9.6 83920.3 -0542.1  
2627 9.3 83933.2 -0513.3  
2628 9.4 83947.0 -0501.1  
2629 9.1 83948.1 -0548.3  
2630 8.8 84009.9 -0528.0

2631 9.8 84010.8 -0529.1  
2632 8.9 84013.5 -0522.5  
2633 8.8 84018.7 -0512.8  
2634 9.8 84034.4 -0528.3  
2635 9.2 84055.0 -0553.5  
2636 9.4 84108.5 -0508.8  
2637 9.5 84112.4 -0559.6  
2638 8.7 84113.6 -0500.4  
2639 9.5 84131.8 -0503.1  
2640 9.3 84218.3 -0518.1

2641 9.5 84230.4 -0527.2  
2642 7.2 84231.0 -0509.4  
2643 9.6 84240.4 -0549.9  
2644 8.5 84248.3 -0526.7  
2645 10. 84329.9 -0528.6  
2646 9.0 84341.0 -0549.3  
2647 8.0 84359.9 -0541.9  
2648 8.5 84404.7 -0514.1  
2649 9.8 84436.7 -0535.3  
2650 9.3 84407.6 -0543.6

2651 8.5 84424.4 -0525.7  
2652 9.5 84454.8 -0523.1  
2653 8.9 84510.3 -0546.0  
2654 9.8 84511.0 -0533.2  
2655 9.1 84613.4 -0503.4  
2656 7.8 84613.4 -0540.1  
2657 8.7 84630.8 -0522.5  
2658 8.5 84645.8 -0522.3  
2659 9.5 84700.6 -0509.3  
2660 9.0 84703.1 -0520.5



-05 2661 8h47m

2661 8.5 84711.9 -0529.9  
2662 9.8 84736.0 -0555.2  
2663 10. 84753.0 -0550.2  
2664 10. 84827.7 -0503.9  
2665 9.1 84823.0 -0510.5  
2666 9.0 84825.4 -0532.1  
2667 9.4 84839.8 -0522.1  
2668 8.3 84853.2 -0543.3  
2669 9.5 84922.5 -0543.5  
2670 9.0 85022.5 -0507.7  
  
2671 8.3 85037.7 -0503.6  
2672 9.8 85052.9 -0506.9  
2673 9.5 85053.6 -0514.8  
2674 9.5 85058.8 -0525.7  
2675 8.5 85113.6 -0514.8  
2676 8.9 85134.4 -0528.2  
2677 9.8 85144.2 -0555.8  
2678 10. 85151.4 -0548.7  
2679 8.7 85155.8 -0527.8  
2680 8.5 85156.1 -0517.7  
  
2681 9.8 85218.4 -0542.8  
2682 9.5 85220.9 -0500.6  
2683 9.0 85222.2 -0518.7  
2684 8.5 85235.0 -0533.1  
2685 9.4 85239.3 -0547.6  
2686 10. 85256.9 -0544.5  
2687 9.9 85257.2 -0537.3  
2688 10. 85323.5 -0510.8  
2689 8.3 85343.8 -0542.0  
2690 10. 85349.4 -0530.4  
  
2691 9.5 85407.5 -0509.0  
2692 9.8 85432.2 -0501.9  
2693 9.2 85500.8 -0521.9  
2694 9.2 85501.1 -0520.5  
2695 9.3 85509.1 -0555.1  
2696 9.6 85528.5 -0512.3  
2697 9.5 85600.1 -0550.9  
2698 8.3 85610.3 -0521.8  
2699 9.4 85620.4 -0531.6  
2700 9.8 85710.1 -0548.7  
  
2701 9.6 85716.9 -0524.7  
2702 9.1 85719.1 -0556.7  
2703 9.7 85720.3 -0540.3  
2704 9.8 85724.3 -0502.3  
2705 9.9 85747.4 -0524.0  
2706 9.2 85755.4 -0549.9  
2707 9.3 85757.7 -0537.8  
2708 9.8 85817.9 -0518.5  
2709 9.5 85847.6 -0537.2  
2710 9.5 85848.4 -0538.1  
  
2711 9.8 85850.0 -0501.5  
2712 9.4 85850.7 -0523.4  
2713 8.8 85936.3 -0507.3  
2714 9.8 85939.6 -0504.4  
2715 9.6 85948.4 -0541.6  
2716 10. 90000.2 -0559.9  
2717 9.8 90010.3 -0542.7  
2718 9.5 90013.0 -0525.5  
2719 10. 90013.2 -0500.3  
2720 10. 90016.6 -0535.5  
  
2721 10. 90034.7 -0534.4  
2722 10. 90040.1 -0506.1  
2723 10. 90043.8 -0532.9  
2724 10. 90049.9 -0521.3  
2725 9.2 90110.6 -0534.9  
2726 9.1 90113.5 -0532.7  
2727 8.5 90116.1 -0502.6  
2728 9.9 90119.4 -0515.0  
2729 9.8 90125.5 -0553.4  
2730 9.3 90146.8 -0506.7  
  
2731 9.0 90150.7 -0509.4  
2732 8.6 90151.1 -0522.8  
2733 9.8 90205.8 -0512.0  
2734 9.8 90208.1 -0511.9  
2735 9.4 90228.0 -0527.4  
2736 9.8 90246.1 -0541.7  
2737 9.1 90257.5 -0551.8  
2738 7.5 90308.6 -0534.1  
2739 9.0 90310.9 -0517.6  
2740 9.5 90312.0 -0529.7  
  
2741 9.7 90325.1 -0532.8  
2742 9.4 90332.0 -0554.5  
2743 9.5 90413.0 -0528.4  
2744 9.5 90429.8 -0504.5  
2745 9.9 90436.9 -0514.0  
2746 9.5 90447.4 -0520.3  
2747 9.4 90448.8 -0513.6  
2748 10. 90515.6 -0503.8  
2749 9.6 90545.0 -0524.9  
2750 9.5 90554.9 -0536.5

2751 9.0 90618.1 -0513.7  
2752 10. 90639.0 -0533.4  
2753 10. 90641.2 -0540.4  
2754 9.0 90726.7 -0549.3  
2755 9.5 90814.4 -0538.6  
2756 9.0 90817.9 -0506.5  
2757 9.8 90823.2 -0501.9  
2758 9.8 90855.0 -0542.1  
2759 9.0 90902.6 -0516.3  
2760 9.3 90909.0 -0535.5  
  
2761 9.1 90909.9 -0524.6  
2762 5.8 90929.1 -0545.2  
2763 9.5 90938.8 -0557.1  
2764 9.5 90942.3 -0522.2  
2765 9.7 91007.9 -0542.7  
2766 9.1 91039.6 -0535.7  
2767 9.4 91058.4 -0546.7  
2768 9.6 91111.6 -0517.0  
2769 9.8 91116.1 -0514.1  
2770 9.3 91126.7 -0526.7  
  
2771 9.5 91143.7 -0544.1  
2772 9.0 91154.7 -0553.8  
2773 9.9 91210.2 -0533.0  
2774 8.0 91235.1 -0522.9  
2775 10. 91240.2 -0549.1  
2776 10. 91252.7 -0551.9  
2777 9.1 91307.6 -0522.9  
2778 8.9 91334.4 -0508.7  
2779 9.1 91348.6 -0522.1  
2780 9.6 91443.1 -0524.3  
  
2781 9.3 91503.7 -0557.0  
2782 7.5 91510.6 -0526.3  
2783 9.5 91536.5 -0511.7  
2784 9.0 91543.3 -0558.6  
2785 9.0 91607.6 -0519.2  
2786 9.8 91652.5 -0557.8  
2787 10. 91706.5 -0537.1  
2788 8.6 91712.3 -0528.9  
2789 8.9 91728.6 -0522.1  
2790 8.4 91739.6 -0523.2  
  
2791 9.5 91745.2 -0532.6  
2792 9.3 91804.5 -0509.4  
2793 9.2 91809.7 -0551.8  
2794 7.8 91814.7 -0546.9  
2795 8.2 91823.0 -0515.2  
2796 10. 91930.6 -0503.4  
2797 9.7 91935.6 -0540.2  
2798 10. 91946.0 -0515.0  
2799 9.7 91957.4 -0546.9  
2800 10. 92011.9 -0506.0  
  
2801 9.6 92023.5 -0517.8  
2802 6.0 92034.6 -0526.5  
2803 8.5 92045.7 -0502.5  
2804 9.2 92122.2 -0539.6  
2805 9.4 92126.1 -0532.0  
2806 9.4 92128.7 -0549.0  
2807 10. 92143.2 -0536.4  
2808 9.8 92153.0 -0516.7  
2809 9.3 92208.4 -0511.1  
2810 10. 92215.0 -0543.1  
  
2811 9.8 92221.5 -0541.0  
2812 9.3 92232.5 -0531.3  
2813 9.1 92241.4 -0511.2  
2814 8.2 92256.5 -0527.5  
2815 9.5 92303.0 -0522.7  
2816 9.9 92328.2 -0511.8  
2817 9.6 92328.7 -0537.1  
2818 9.7 92330.1 -0505.0  
2819 10. 92331.4 -0511.5  
2820 7.0 92340.8 -0501.7  
  
2821 10. 92357.0 -0525.4  
2822 9.0 92407.2 -0534.1  
2823 10. 92408.3 -0509.5  
2824 9.4 92432.4 -0517.3  
2825 9.2 92455.6 -0511.1  
2826 9.1 92501.5 -0508.3  
2827 9.4 92501.7 -0519.8  
2828 9.4 92508.6 -0507.0  
2829 10. 92509.2 -0544.7  
2830 9.5 92521.5 -0503.0  
  
2831 10. 92524.7 -0541.0  
2832 9.8 92601.3 -0549.2  
2833 9.4 92610.4 -0517.8  
2834 8.7 92610.4 -0551.8  
2835 10. 92637.0 -0544.0  
2836 10. 92654.2 -0504.6  
2837 9.8 92654.5 -0550.7  
2838 9.4 92658.7 -0541.2  
2839 9.4 92716.6 -0532.5  
2840 6.7 92718.4 -0516.4

2841 9.0 92758.4 -0512.1  
2842 10. 92811.5 -0521.7  
2843 9.0 92813.0 -0549.8  
2844 9.9 92903.0 -0549.1  
2845 10. 92904.8 -0509.7  
2846 9.4 92918.3 -0512.8  
2847 5.5 92929.1 -0554.1  
2848 9.7 92933.8 -0553.7  
2849 9.3 92941.1 -0553.7  
2850 9.6 92943.6 -0553.2  
  
2851 9.3 93015.0 -0552.2  
2852 10. 93028.4 -0543.6  
2853 10. 93032.1 -0537.3  
2854 8.5 93039.0 -0530.8  
2855 9.5 93057.2 -0516.3  
2856 9.8 93131.2 -0509.6  
2857 9.8 93145.7 -0509.4  
2858 8.5 93157.9 -0504.3  
2859 9.8 93207.5 -0529.4  
2860 9.5 93232.7 -0525.4  
  
2861 8.8 93239.2 -0510.2  
2862 9.6 93257.7 -0501.5  
2863 9.9 93301.8 -0513.2  
2864 9.9 93317.2 -0543.0  
2865 9.0 93353.1 -0556.2  
2866 10. 93403.0 -0542.5  
2867 10. 93403.1 -0516.7  
2868 9.4 93409.6 -0557.6  
2869 9.7 93426.4 -0503.8  
2870 8.8 93444.3 -0514.2  
  
2871 10. 93450.7 -0554.0  
2872 9.2 93453.7 -0544.5  
2873 9.1 93504.1 -0534.1  
2874 9.0 93519.3 -0512.9  
2875 9.7 93531.5 -0553.9  
2876 7.9 93600.1 -0558.1  
2877 8.9 93603.2 -0522.4  
2878 10. 93608.0 -0504.8  
2879 10. 93610.8 -0508.1  
2880 9.0 93629.0 -0532.8  
  
2881 8.4 93655.0 -0530.9  
2882 9.7 93715.0 -0551.3  
2883 9.1 93718.2 -0545.6  
2884 9.2 93725.4 -0526.4  
2885 8.8 93726.3 -0537.4  
2886 9.6 93726.5 -0531.4  
2887 10. 93729.5 -0520.2  
2888 9.1 93738.7 -0504.3  
2889 10. 93759.6 -0541.7  
2890 9.0 93830.9 -0553.2  
  
2891 9.8 93833.8 -0513.2  
2892 9.8 93852.7 -0551.2  
2893 9.8 93855.4 -0506.1  
2894 10. 93857.8 -0515.0  
2895 8.5 93859.5 -0524.7  
2896 9.4 93900.4 -0526.5  
2897 9.9 93901.9 -0527.8  
2898 9.2 93911.1 -0521.5  
2899 10. 93912.0 -0517.5  
2900 4.8 93933.4 -0543.3  
  
2901 10. 93951.0 -0535.5  
2902 8.6 93951.6 -0509.2  
2903 9.8 94012.8 -0553.7  
2904 9.4 94024.4 -0530.8  
2905 10. 94026.8 -0515.4  
2906 9.6 94049.9 -0515.3  
2907 9.8 94051.1 -0512.5  
2908 7.3 94051.7 -0514.3  
2909 9.5 94124.5 -0529.3  
2910 9.3 94124.7 -0503.6  
  
2911 9.3 94132.1 -0510.0  
2912 10. 94152.5 -0537.5  
2913 10. 94212.7 -0550.3  
2914 10. 94214.6 -0504.9  
2915 9.4 94225.0 -0536.4  
2916 9.3 94225.6 -0505.4  
2917 9.5 94245.4 -0539.8  
2918 10. 94310.8 -0516.5  
2919 9.5 94319.5 -0537.5  
2920 9.1 94347.0 -0549.2  
  
2921 10. 94351.4 -0525.8  
2922 9.9 94406.2 -0512.7  
2923 6.8 94407.4 -0530.3  
2924 9.6 94424.7 -0552.1  
2925 9.8 94431.5 -0505.8  
2926 9.8 94446.6 -0506.0  
2927 8.3 94524.3 -0527.8  
2928 9.9 94539.2 -0501.0  
2929 9.6 94644.4 -0552.0  
2930 10. 94649.4 -0504.3

2931 10. 94651.6 -0550.7  
2932 10. 94652.8 -0556.2  
2933 10. 94706.6 -0551.6  
2934 10. 94709.1 -0553.6  
2935 9.1 94745.2 -0514.8  
2936 9.2 94758.7 -0558.8  
2937 9.5 94759.2 -0516.7  
2938 9.5 94821.8 -0520.4  
2939 8.5 94828.9 -0528.5  
2940 10. 94831.3 -0559.5  
  
2941 9.6 94843.0 -0537.9  
2942 9.6 94844.0 -0535.9  
2943 9.9 94848.8 -0525.1  
2944 9.7 94923.1 -0512.0  
2945 8.2 94934.5 -0505.8  
2946 9.5 94934.9 -0546.7  
2947 10. 94945.1 -0545.6  
2948 10. 94947.5 -0536.0  
2949 9.1 94954.6 -0545.7  
2950 9.8 95011.1 -0545.3  
  
2951 9.6 95026.2 -0517.9  
2952 9.3 95044.7 -0519.7  
2953 9.0 95046.6 -0546.1  
2954 9.0 95105.1 -0554.7  
2955 9.2 95121.0 -0537.0  
2956 10. 95151.1 -0550.9  
2957 9.8 95149.2 -0500.7  
2958 9.8 95149.6 -0517.7  
2959 9.8 95155.4 -0506.1  
2960 9.7 95212.0 -0542.7  
  
2961 9.8 95220.7 -0559.8  
2962 9.8 95229.5 -0538.2  
2963 9.1 95233.6 -0548.1  
2964 9.4 95236.7 -0540.5  
2965 9.9 95242.8 -0531.1  
2966 10. 95332.7 -0557.3  
2967 9.3 95333.4 -0552.6  
2968 9.6 95344.6 -0511.2  
2969 9.1 95353.0 -0506.7  
2970 9.2 95406.9 -0549.0  
  
2971 9.1 95424.7 -0524.8  
2972 8.8 95436.2 -0500.6  
2973 10. 95457.5 -0540.7  
2974 10. 95511.3 -0547.0  
2975 8.8 95511.9 -0553.0  
2976 8.7 95527.6 -0548.4  
2977 8.8 95536.1 -0512.6  
2978 10. 95556.3 -0530.1  
2979 8.8 95569.7 -0556.4  
2980 10. 95609.5 -0551.2  
  
2981 9.1 95618.1 -0518.5  
2982 10. 95621.0 -0539.5  
2983 9.4 95704.2 -0518.6  
2984 9.0 95748.6 -0513.5  
2985 9.8 95834.5 -0548.5  
2986 9.0 95855.5 -0545.4  
2987 9.8 95918.3 -0532.5  
2988 10. 95923.7 -0558.8  
2989 8.7 95947.1 -0540.3  
2990 9.4 95949.4 -0529.2  
  
2991 7.6 100020.5 -0544.3  
2992 9.4 100032.3 -0555.8  
2993 8.5 100041.3 -0500.7  
2994 9.8 100050.7 -0512.1  
2995 9.1 100104.1 -0523.6  
2996 9.3 100142.6 -0520.6  
2997 9.5 100145.0 -0510.7  
2998 10. 100212.9 -0511.0  
2999 9.1 100215.9 -0537.4  
3000 9.3 100217.0 -0536.2  
  
3001 9.8 100242.3 -0511.7  
3002 9.0 100242.5 -0555.0  
3003 10. 100252.4 -0540.8  
3004 9.5 100257.4 -0506.3  
3005 9.1 100308.6 -0508.1  
3006 10. 100331.5 -0553.1  
3007 9.3 100345.9 -0540.0  
3008 8.6 100412.3 -0526.6  
3009 9.7 100425.1 -0503.7  
3010 10. 100444.1 -0558.8  
  
3011 7.8 100446.0 -0529.7  
3012 9.0 100500.6 -0514.5  
3013 9.3 100556.4 -0508.0  
3014 9.4 100610.1 -0547.6  
3015 9.4 100625.5 -0503.1  
3016 9.4 100629.5 -0511.8  
3017 9.4 100706.9 -0555.8  
3018 9.0 100708.0 -0550.6  
3019 9.2 100722.7 -0542.6  
3020 10. 100731.8 -0524.5

-05 3020 10h07m



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 3021 | 8.5  | 100738.0 | -0531.2 | 3111 | 9.4  | 103052.7 | -0511.4 | 3201 | 9.1  | 105923.8 | -0544.9 | 3291 | 9.8  | 112021.4 | -0516.6 |
| 3022 | 9.6  | 100743.4 | -0541.4 | 3112 | 9.8  | 103101.1 | -0552.0 | 3202 | 9.5  | 105940.0 | -0528.8 | 3292 | 10.0 | 112034.0 | -0535.3 |
| 3023 | 10.0 | 100747.0 | -0517.0 | 3113 | 8.7  | 103142.1 | -0554.7 | 3203 | 9.1  | 105949.5 | -0519.8 | 3293 | 10.0 | 112044.6 | -0539.0 |
| 3024 | 8.8  | 100750.7 | -0542.2 | 3114 | 8.7  | 103151.1 | -0508.0 | 3204 | 10.0 | 105954.3 | -0501.4 | 3294 | 8.9  | 112109.3 | -0518.2 |
| 3025 | 9.0  | 100811.1 | -0516.7 | 3115 | 9.3  | 103157.8 | -0520.8 | 3205 | 10.0 | 110026.8 | -0555.8 | 3295 | 9.7  | 112112.1 | -0507.0 |
| 3026 | 9.3  | 100834.4 | -0511.4 | 3116 | 8.6  | 103158.4 | -0527.5 | 3206 | 10.0 | 110034.0 | -0533.0 | 3296 | 8.6  | 112117.8 | -0522.9 |
| 3027 | 9.2  | 100845.3 | -0535.2 | 3117 | 10.0 | 103214.1 | -0554.0 | 3207 | 9.8  | 110029.3 | -0559.4 | 3297 | 9.7  | 112127.5 | -0543.6 |
| 3028 | 8.1  | 100900.8 | -0506.7 | 3118 | 9.5  | 103216.2 | -0555.3 | 3208 | 9.7  | 110052.7 | -0539.7 | 3298 | 9.8  | 112145.6 | -0501.7 |
| 3029 | 10.0 | 100916.6 | -0512.0 | 3119 | 10.0 | 103238.7 | -0512.3 | 3209 | 9.2  | 110056.4 | -0531.4 | 3299 | 9.1  | 112149.2 | -0554.0 |
| 3030 | 10.0 | 100919.4 | -0543.7 | 3120 | 8.0  | 103258.2 | -0556.0 | 3210 | 9.8  | 110058.9 | -0537.5 | 3300 | 8.7  | 112192.2 | -0530.5 |
| 3031 | 9.0  | 100933.8 | -0507.6 | 3121 | 9.1  | 103307.5 | -0543.6 | 3211 | 8.8  | 110111.6 | -0537.8 | 3301 | 9.6  | 112230.2 | -0516.8 |
| 3032 | 9.6  | 100942.0 | -0542.8 | 3122 | 10.0 | 103355.2 | -0551.3 | 3212 | 9.8  | 110121.5 | -0532.4 | 3302 | 9.7  | 112247.5 | -0544.7 |
| 3033 | 9.1  | 101045.1 | -0526.5 | 3123 | 10.0 | 103428.1 | -0512.0 | 3213 | 9.1  | 110128.0 | -0521.4 | 3303 | 9.0  | 112307.7 | -0531.0 |
| 3034 | 8.3  | 101049.0 | -0542.0 | 3124 | 7.6  | 103435.9 | -0549.4 | 3214 | 9.9  | 110148.3 | -0522.8 | 3304 | 7.6  | 112328.2 | -0555.3 |
| 3035 | 9.4  | 101049.6 | -0508.9 | 3125 | 8.7  | 103510.6 | -0503.5 | 3215 | 9.1  | 110217.9 | -0522.8 | 3305 | 9.1  | 112359.2 | -0522.8 |
| 3036 | 9.9  | 101057.9 | -0506.4 | 3126 | 8.8  | 103511.5 | -0545.8 | 3216 | 8.3  | 110226.0 | -0501.3 | 3306 | 9.8  | 112410.6 | -0504.1 |
| 3037 | 9.3  | 101100.5 | -0556.3 | 3127 | 9.8  | 103542.2 | -0517.4 | 3217 | 9.5  | 110258.8 | -0501.7 | 3307 | 6.5  | 112433.8 | -0540.2 |
| 3038 | 9.9  | 101109.4 | -0509.8 | 3128 | 9.1  | 103610.5 | -0512.5 | 3218 | 8.2  | 110259.2 | -0554.2 | 3308 | 9.8  | 112436.7 | -0510.2 |
| 3039 | 9.4  | 101119.4 | -0544.0 | 3129 | 10.0 | 103613.6 | -0523.8 | 3219 | 9.9  | 110302.4 | -0505.9 | 3309 | 8.5  | 112459.4 | -0500.3 |
| 3040 | 9.0  | 101138.3 | -0538.3 | 3130 | 10.0 | 103618.2 | -0525.7 | 3220 | 9.3  | 110330.1 | -0557.9 | 3310 | 9.8  | 112523.6 | -0528.2 |
| 3041 | 10.0 | 101214.2 | -0517.2 | 3131 | 9.1  | 103622.1 | -0549.3 | 3221 | 8.7  | 110330.4 | -0512.9 | 3311 | 9.4  | 112539.1 | -0541.5 |
| 3042 | 9.7  | 101258.9 | -0510.2 | 3132 | 9.1  | 103623.5 | -0550.2 | 3222 | 8.7  | 110335.9 | -0521.8 | 3312 | 9.4  | 112604.0 | -0541.9 |
| 3043 | 7.7  | 101322.1 | -0527.7 | 3133 | 8.2  | 103635.2 | -0519.1 | 3223 | 8.9  | 110337.0 | -0532.3 | 3313 | 8.0  | 112614.1 | -0544.2 |
| 3044 | 9.7  | 101332.2 | -0535.2 | 3134 | 9.8  | 103715.4 | -0502.9 | 3224 | 10.0 | 110351.3 | -0505.2 | 3314 | 9.6  | 112745.2 | -0509.0 |
| 3045 | 9.5  | 101333.0 | -0519.9 | 3135 | 9.8  | 103746.2 | -0514.0 | 3225 | 10.0 | 110422.4 | -0555.6 | 3315 | 8.6  | 112751.6 | -0541.6 |
| 3046 | 9.8  | 101339.7 | -0539.5 | 3136 | 10.0 | 103751.5 | -0511.1 | 3226 | 9.6  | 110446.1 | -0518.0 | 3316 | 9.2  | 112820.7 | -0556.3 |
| 3047 | 9.0  | 101428.6 | -0530.4 | 3137 | 10.0 | 103753.0 | -0508.0 | 3227 | 9.8  | 110446.3 | -0551.9 | 3317 | 8.8  | 112836.7 | -0516.9 |
| 3048 | 9.7  | 101433.8 | -0543.2 | 3138 | 9.8  | 103819.1 | -0549.6 | 3228 | 9.6  | 110455.8 | -0515.6 | 3318 | 10.0 | 112930.5 | -0500.4 |
| 3049 | 9.2  | 101439.9 | -0552.8 | 3139 | 8.8  | 103843.8 | -0541.6 | 3229 | 9.5  | 110514.8 | -0545.6 | 3319 | 9.8  | 112951.4 | -0518.0 |
| 3050 | 10.0 | 101457.4 | -0517.0 | 3140 | 9.9  | 103852.0 | -0531.6 | 3230 | 9.5  | 110533.2 | -0553.0 | 3320 | 9.0  | 112958.9 | -0527.9 |
| 3051 | 9.9  | 101501.9 | -0511.6 | 3141 | 9.8  | 103917.0 | -0552.2 | 3231 | 10.0 | 110539.3 | -0531.4 | 3321 | 10.0 | 113116.3 | -0512.4 |
| 3052 | 8.9  | 101532.4 | -0547.6 | 3142 | 9.5  | 103917.7 | -0516.9 | 3232 | 10.0 | 110550.2 | -0548.2 | 3322 | 8.7  | 113125.6 | -0529.7 |
| 3053 | 9.7  | 101568.6 | -0518.6 | 3143 | 9.9  | 103917.5 | -0559.8 | 3233 | 9.9  | 110613.7 | -0558.6 | 3323 | 9.3  | 113124.3 | -0534.7 |
| 3054 | 9.7  | 101610.5 | -0519.6 | 3144 | 10.0 | 103954.7 | -0542.8 | 3234 | 9.8  | 110655.6 | -0506.1 | 3324 | 9.5  | 113218.3 | -0524.0 |
| 3055 | 9.7  | 101614.5 | -0537.0 | 3145 | 9.5  | 104023.6 | -0511.5 | 3235 | 10.0 | 110701.4 | -0504.1 | 3325 | 8.8  | 113218.7 | -0568.0 |
| 3056 | 9.6  | 101629.4 | -0559.1 | 3146 | 9.8  | 104045.9 | -0535.5 | 3236 | 9.6  | 110722.0 | -0520.4 | 3326 | 9.0  | 113222.1 | -0512.5 |
| 3057 | 9.1  | 101647.4 | -0550.1 | 3147 | 10.0 | 104135.1 | -0543.3 | 3237 | 10.0 | 110724.1 | -0556.5 | 3327 | 10.0 | 113234.5 | -0541.7 |
| 3058 | 10.0 | 101707.3 | -0555.2 | 3148 | 10.0 | 104135.3 | -0534.7 | 3238 | 9.4  | 110738.7 | -0545.9 | 3328 | 9.0  | 113244.4 | -0518.2 |
| 3059 | 10.0 | 101724.0 | -0523.0 | 3149 | 9.5  | 104211.0 | -0550.2 | 3239 | 9.5  | 110746.5 | -0527.5 | 3329 | 9.5  | 113301.8 | -0517.7 |
| 3060 | 9.6  | 101733.0 | -0549.1 | 3150 | 9.8  | 104217.6 | -0541.1 | 3240 | 9.6  | 110750.5 | -0528.6 | 3330 | 10.0 | 113306.8 | -0517.1 |
| 3061 | 9.0  | 101806.4 | -0521.5 | 3151 | 8.3  | 104308.9 | -0554.2 | 3241 | 10.0 | 110811.3 | -0504.3 | 3331 | 9.4  | 113323.3 | -0556.2 |
| 3062 | 7.2  | 101901.3 | -0541.4 | 3152 | 9.2  | 104333.4 | -0506.3 | 3242 | 9.1  | 110814.8 | -0521.7 | 3332 | 9.5  | 113357.3 | -0552.9 |
| 3063 | 9.3  | 101923.7 | -0546.1 | 3153 | 8.7  | 104352.9 | -0507.2 | 3243 | 9.7  | 110828.4 | -0500.8 | 3333 | 8.7  | 113423.2 | -0552.5 |
| 3064 | 9.3  | 101929.2 | -0536.1 | 3154 | 9.2  | 104432.1 | -0501.1 | 3244 | 9.8  | 110845.8 | -0515.0 | 3334 | 8.7  | 113428.4 | -0514.0 |
| 3065 | 10.0 | 101929.2 | -0524.4 | 3155 | 9.8  | 104449.5 | -0513.2 | 3245 | 9.8  | 110901.0 | -0558.0 | 3335 | 10.0 | 113430.3 | -0507.5 |
| 3066 | 9.5  | 101937.3 | -0508.6 | 3156 | 9.7  | 104510.7 | -0531.6 | 3246 | 9.4  | 110942.7 | -0543.7 | 3336 | 9.2  | 113509.5 | -0550.0 |
| 3067 | 9.1  | 101939.8 | -0550.2 | 3157 | 9.4  | 104512.0 | -0542.1 | 3247 | 9.0  | 110943.1 | -0552.7 | 3337 | 9.3  | 113513.2 | -0557.8 |
| 3068 | 10.0 | 102024.4 | -0540.4 | 3158 | 9.8  | 104519.3 | -0547.7 | 3248 | 8.9  | 111024.5 | -0504.2 | 3338 | 8.5  | 113523.8 | -0536.6 |
| 3069 | 10.0 | 102027.2 | -0516.8 | 3159 | 9.6  | 104611.6 | -0526.8 | 3249 | 9.4  | 111028.6 | -0557.6 | 3339 | 10.0 | 113606.2 | -0556.5 |
| 3070 | 9.8  | 102033.2 | -0544.1 | 3160 | 9.4  | 104636.3 | -0529.5 | 3250 | 8.3  | 111103.3 | -0506.1 | 3340 | 6.5  | 113630.3 | -0551.8 |
| 3071 | 8.0  | 102058.6 | -0551.0 | 3161 | 8.7  | 104653.4 | -0557.5 | 3251 | 9.8  | 111121.2 | -0512.7 | 3341 | 9.7  | 113635.9 | -0502.9 |
| 3072 | 9.5  | 102101.4 | -0511.3 | 3162 | 9.7  | 104657.5 | -0551.9 | 3252 | 9.8  | 111126.7 | -0517.9 | 3342 | 9.0  | 113658.3 | -0545.3 |
| 3073 | 7.7  | 102116.9 | -0533.8 | 3163 | 9.8  | 104726.4 | -0508.8 | 3253 | 10.0 | 111158.1 | -0502.6 | 3343 | 10.0 | 113702.7 | -0531.1 |
| 3074 | 9.5  | 102126.9 | -0514.4 | 3164 | 9.3  | 104730.3 | -0547.8 | 3254 | 9.0  | 111159.2 | -0508.6 | 3344 | 9.9  | 113738.4 | -0502.5 |
| 3075 | 9.9  | 102236.7 | -0542.9 | 3165 | 9.0  | 104758.3 | -0504.8 | 3255 | 9.3  | 111209.7 | -0526.9 | 3345 | 9.8  | 113743.2 | -0514.0 |
| 3076 | 9.6  | 102325.9 | -0521.3 | 3166 | 9.0  | 104837.4 | -0551.4 | 3256 | 9.8  | 111210.6 | -0538.0 | 3346 | 8.2  | 113753.6 | -0541.6 |
| 3077 | 9.0  | 102401.2 | -0538.7 | 3167 | 9.7  | 104846.3 | -0505.4 | 3257 | 9.7  | 111240.0 | -0559.7 | 3347 | 9.2  | 113826.3 | -0516.6 |
| 3078 | 9.4  | 102406.8 | -0540.4 | 3168 | 9.6  | 104910.7 | -0507.0 | 3258 | 9.8  | 111350.2 | -0529.2 | 3348 | 10.0 | 113833.3 | -0517.3 |
| 3079 | 10.0 | 102447.7 | -0503.8 | 3169 | 9.3  | 104917.4 | -0507.2 | 3259 | 9.6  | 111401.9 | -0507.2 | 3349 | 8.3  | 113844.5 | -0549.9 |
| 3080 | 7.2  | 102450.8 | -0519.6 | 3170 | 9.5  | 104921.1 | -0518.5 | 3260 | 9.3  | 111402.8 | -0507.6 | 3350 | 9.5  | 113918.0 | -0543.0 |
| 3081 | 9.8  | 102527.5 | -0519.5 | 3171 | 9.7  | 104924.3 | -0505.0 | 3261 | 9.3  | 111442.2 | -0508.4 | 3351 | 9.8  | 113934.2 | -0521.0 |
| 3082 | 9.5  | 102528.4 | -0513.8 | 3172 | 9.0  | 104947.7 | -0530.1 | 3262 | 10.0 | 111505.7 | -0520.9 | 3352 | 9.8  | 113953.7 | -0512.1 |
| 3083 | 9.9  | 102529.2 | -0514.8 | 3173 | 8.6  | 104947.8 | -0543.5 | 3263 | 9.4  | 111510.8 | -0516.9 | 3353 | 8.3  | 114009.5 | -0539.9 |
| 3084 | 9.3  | 102541.4 | -0527.3 | 3174 | 10.0 | 105015.7 | -0506.5 | 3264 | 10.0 | 111514.0 | -0552.9 | 3354 | 9.8  | 114016.8 | -0525.0 |
| 3085 | 10.0 | 102551.1 | -0558.6 | 3175 | 9.3  | 105020.9 | -0554.7 | 3265 | 9.1  | 111525.9 | -0524.2 | 3355 | 9.0  | 114028.8 | -0526.2 |
| 3086 | 10.0 | 102553.3 | -0520.4 | 3176 | 9.4  | 105108.3 | -0557.8 | 3266 | 9.3  | 111538.8 | -0532.1 | 3356 | 9.5  | 114039.5 | -0501.6 |
| 3087 | 9.4  | 102610.2 | -0551.9 | 3177 | 10.0 | 105109.5 | -0507.6 | 3267 | 9.5  | 111542.2 | -0529.4 | 3357 | 9.5  | 114059.7 | -0531.4 |
| 3088 | 9.4  | 102615.9 | -0525.7 | 3178 | 9.0  | 105114.7 | -0535.0 | 3268 | 9.8  | 111606.0 | -0557.8 | 3358 | 9.2  | 114104.8 | -0501.8 |
| 3089 | 9.0  | 102627.0 | -0537.9 | 3179 | 10.0 | 105146.4 | -0511.8 | 3269 | 9.7  | 111609.7 | -0514.7 | 3359 | 9.3  | 114118.7 | -0525.7 |
| 3090 | 10.0 | 102631.2 | -0517.8 | 3180 | 9.8  | 105217.1 | -0524.8 | 3270 | 9.7  | 111613.1 | -0516.5 | 3360 | 9.8  | 114123.8 | -0517.2 |
| 3091 | 9.8  | 102643.1 | -0551.3 | 3181 | 10.0 | 105241.3 | -0530.1 | 3271 | 9.3  | 111626.3 | -0551.4 | 3361 | 10.0 | 114130.3 | -0533.1 |
| 3092 | 9.8  | 102702.9 | -0531.3 | 3182 | 8.5  | 105253.9 | -0501.7 | 3272 | 9.5  | 111628.6 | -0527.9 | 3362 | 10.0 | 114227.2 | -0506.3 |
| 3093 | 9.1  | 102712.7 | -0517   |      |      |          |         |      |      |          |         |      |      |          |         |



-05 3381 11h46m

3381 8.7 114659.8 -0558.7  
3382 8.7 114720.2 -0509.1  
3383 9.8 114725.7 -0517.2  
3384 9.2 114730.4 -0550.7  
3385 9.0 114800.7 -0524.5  
3386 9.4 114801.5 -0509.5  
3387 10. 114840.7 -0514.6  
3388 9.1 114842.2 -0517.3  
3389 9.5 114917.1 -0536.7  
3390 9.5 114937.4 -0501.6

3391 9.4 114950.2 -0536.7  
3392 9.9 115005.6 -0542.3  
3393 9.2 115036.4 -0519.2  
3394 9.8 115107.2 -0519.1  
3395 9.5 115115.1 -0521.2  
3396 7.8 115136.3 -0550.7  
3397 9.1 115138.7 -0523.1  
3398 10. 115206.1 -0557.4  
3399 9.1 115217.6 -0525.8  
3400 9.4 115226.1 -0530.5

3401 10. 115313.7 -0510.5  
3402 9.5 115406.7 -0503.9  
3403 8.2 115431.1 -0528.3  
3404 9.8 115445.6 -0544.3  
3405 8.9 115453.5 -0501.6  
3406 7.8 115520.0 -0539.6  
3407 10. 115536.1 -0528.4  
3408 9.7 115537.0 -0530.4  
3409 9.4 115552.7 -0558.6  
3410 9.4 115607.9 -0546.0

3411 9.4 115613.7 -0534.7  
3412 9.2 115614.4 -0537.2  
3413 8.9 115726.1 -0523.5  
3414 9.4 115759.5 -0556.2  
3415 10. 115808.0 -0510.1  
3416 6.7 115809.1 -0502.0  
3417 9.8 115819.3 -0528.2  
3418 9.4 115820.4 -0544.1  
3419 8.0 115823.8 -0502.8  
3420 8.8 115825.8 -0544.0

3421 9.4 115913.8 -0504.0  
3422 8.7 115925.4 -0552.9  
3423 7.8 115947.1 -0516.0  
3424 7.0 115948.0 -0557.2  
3425 9.4 115951.9 -0516.0  
3426 10. 115952.9 -0554.8  
3427 9.5 115953.5 -0502.7  
3428 9.5 115957.1 -0531.7  
3429 9.0 120012.7 -0504.4  
3430 9.3 120022.8 -0540.3

3431 9.5 120054.3 -0555.4  
3432 9.2 120112.5 -0501.8  
3433 9.3 120152.8 -0520.0  
3434 9.9 120200.3 -0523.8  
3435 9.9 120209.1 -0552.5  
3436 9.5 120219.3 -0528.9  
3437 9.4 120220.8 -0531.6  
3438 9.1 120242.3 -0529.0  
3439 9.2 120255.4 -0539.3  
3440 9.4 120314.0 -0547.7

3441 10. 120333.3 -0510.7  
3442 8.2 120342.3 -0544.8  
3443 9.7 120346.9 -0503.9  
3444 8.0 120353.8 -0506.8  
3445 10. 120359.1 -0529.4  
3446 9.5 120401.9 -0553.8  
3447 9.4 120414.2 -0559.2  
3448 9.4 120448.8 -0529.9  
3449 9.4 120455.3 -0509.7  
3450 9.2 120458.7 -0532.4

3451 8.5 120529.6 -0559.7  
3452 9.5 120620.1 -0528.1  
3453 9.1 120622.8 -0541.4  
3454 10. 120647.4 -0541.0  
3455 9.1 120651.7 -0550.7  
3456 30.0 120710.4 -0513.8  
3457 8.8 120712.2 -0552.6  
3458 9.5 120738.1 -0501.9  
3459 8.5 120807.2 -0507.6  
3460 10. 120812.6 -0511.9

3461 9.5 120922.1 -0536.2  
3462 9.8 120824.5 -0532.9  
3463 8.0 120826.4 -0520.8  
3464 9.5 120848.9 -0523.1  
3465 8.1 120855.9 -0501.9  
3466 9.3 120856.4 -0549.4  
3467 9.1 121016.2 -0529.6  
3468 8.2 121027.1 -0536.9  
3469 9.8 121050.9 -0540.6  
3470 9.6 121054.2 -0521.6

3471 9.0 121111.4 -0550.6  
3472 8.9 121116.2 -0552.0  
3473 9.5 121135.7 -0505.2  
3474 10. 121203.9 -0548.8  
3475 8.8 121211.1 -0502.8  
3476 8.7 121257.2 -0544.9  
3477 9.8 121300.7 -0512.6  
3478 9.5 121323.4 -0519.7  
3479 9.6 121335.3 -0543.4  
3480 9.5 121353.6 -0507.1

3481 9.5 121358.0 -0537.9  
3482 9.4 121406.3 -0505.2  
3483 9.0 121416.9 -0521.8  
3484 9.8 121430.9 -0542.7  
3485 9.5 121448.1 -0537.4  
3486 10. 121517.1 -0521.9  
3487 7.2 121600.7 -0518.7  
3488 9.4 121643.1 -0510.7  
3489 9.8 121645.2 -0506.6  
3490 9.7 121658.2 -0530.6

3491 10. 121728.6 -0555.4  
3492 9.3 121758.8 -0524.5  
3493 9.2 121800.5 -0548.0  
3494 9.4 121822.0 -0526.3  
3495 10. 121825.0 -0523.1  
3496 9.8 121841.5 -0512.8  
3497 8.8 121900.0 -0513.9  
3498 9.7 121907.7 -0550.2  
3499 9.8 121926.4 -0526.7  
3500 8.5 121931.7 -0515.1

3501 9.4 121933.6 -0540.1  
3502 9.4 121935.2 -0525.6  
3503 8.9 121941.1 -0543.7  
3504 9.8 122003.5 -0555.0  
3505 9.3 122034.0 -0551.9  
3506 7.8 122123.9 -0543.9  
3507 9.1 122133.1 -0547.5  
3508 9.8 122141.2 -0533.4  
3509 10. 122150.8 -0541.4  
3510 9.7 122214.6 -0532.7

3511 9.6 122219.5 -0505.8  
3512 9.2 122235.2 -0555.7  
3513 7.5 122236.0 -0512.9  
3514 9.8 122238.0 -0535.0  
3515 9.1 122240.0 -0523.4  
3516 8.7 122256.5 -0513.6  
3517 9.5 122310.1 -0528.1  
3518 9.3 122312.4 -0515.2  
3519 9.6 122420.5 -0510.7  
3520 9.8 122442.3 -0520.8

3521 9.1 122503.1 -0517.6  
3522 9.8 122503.6 -0508.7  
3523 10. 122519.9 -0559.4  
3524 9.6 122541.6 -0529.5  
3525 9.0 122602.1 -0545.5  
3526 7.8 122627.9 -0548.6  
3527 9.7 122632.8 -0549.9  
3528 9.6 122643.7 -0522.5  
3529 9.8 122717.6 -0527.0  
3530 9.1 122734.4 -0553.3

3531 9.5 122826.9 -0510.6  
3532 9.1 122844.9 -0537.1  
3533 9.8 122902.6 -0556.5  
3534 8.3 122906.3 -0516.1  
3535 5.9 122919.5 -0501.4  
3536 9.0 122919.7 -0517.4  
3537 9.7 123017.9 -0537.3  
3538 9.1 123038.4 -0547.7  
3539 9.8 123122.9 -0531.9  
3540 9.5 123153.1 -0548.2

3541 9.1 123156.3 -0525.5  
3542 6.5 123201.2 -0518.0  
3543 8.5 123240.9 -0511.0  
3544 9.8 123246.5 -0550.0  
3545 9.1 123249.1 -0533.0  
3546 8.8 123301.0 -0546.9  
3547 9.8 123342.7 -0521.0  
3548 9.4 123351.2 -0520.3  
3549 9.5 123402.4 -0553.7  
3550 8.3 123418.9 -0536.8

3551 9.7 123450.4 -0548.0  
3552 9.7 123459.0 -0520.8  
3553 9.5 123503.3 -0527.9  
3554 9.8 123547.7 -0521.7  
3555 10. 123556.9 -0549.2  
3556 9.3 123602.0 -0528.1  
3557 9.7 123631.3 -0538.2  
3558 9.7 123657.5 -0539.9  
3559 10. 123703.5 -0547.2  
3560 9.4 123715.6 -0548.5

3561 8.8 123716.6 -0522.2  
3562 9.8 123845.7 -0512.9  
3563 10. 123904.1 -0530.3  
3564 10. 123921.4 -0536.9  
3565 9.5 123925.5 -0549.3  
3566 10. 123935.7 -0533.2  
3567 10. 124002.8 -0516.7  
3568 8.8 124003.1 -0505.6  
3569 6.3 124004.4 -0530.2  
3570 9.8 124033.7 -0512.9

3571 8.8 124042.5 -0509.8  
3572 20.0 124107.5 -0500.6  
3573 9.2 124107.7 -0505.7  
3574 9.8 124122.2 -0559.1  
3575 9.1 124133.2 -0555.1  
3576 10. 124138.0 -0501.8  
3577 8.9 124146.1 -0501.7  
3578 9.0 124209.1 -0517.4  
3579 9.7 124211.2 -0548.8  
3580 9.8 124238.5 -0546.7

3581 8.9 124310.9 -0540.1  
3582 8.5 124326.1 -0516.3  
3583 9.5 124347.2 -0543.4  
3584 9.0 124404.8 -0533.1  
3585 8.4 124410.6 -0520.4  
3586 9.3 124421.5 -0501.2  
3587 9.9 124432.3 -0555.3  
3588 8.2 124443.1 -0517.9  
3589 9.5 124449.1 -0549.2  
3590 9.1 124537.2 -0513.9

3591 9.4 124541.3 -0510.3  
3592 9.4 124550.3 -0509.4  
3593 10. 124642.3 -0554.4  
3594 9.8 124650.2 -0556.9  
3595 9.5 124650.8 -0508.4  
3596 9.5 124728.6 -0532.7  
3597 9.8 124736.2 -0504.1  
3598 9.1 124826.3 -0516.6  
3599 9.8 124837.3 -0510.5  
3600 8.5 124900.5 -0532.0

3601 9.5 124921.3 -0540.9  
3602 9.0 125006.9 -0509.3  
3603 8.6 125010.5 -0536.4  
3604 9.0 125055.9 -0515.5  
3605 7.3 125129.8 -0518.2  
3606 9.4 125200.0 -0536.6  
3607 10. 125244.7 -0517.5  
3608 9.5 125302.2 -0517.5  
3609 9.4 125307.9 -0547.3  
3610 10. 125322.7 -0518.4

3611 9.5 125328.9 -0525.4  
3612 9.4 125335.7 -0519.6  
3613 10. 125356.8 -0506.8  
3614 9.5 125409.6 -0549.3  
3615 9.6 125419.9 -0511.0  
3616 8.8 125516.2 -0544.5  
3617 9.5 125530.4 -0515.2  
3618 9.3 125542.9 -0520.4  
3619 8.2 125553.2 -0539.0  
3620 9.5 125618.3 -0558.5

3621 8.5 125641.8 -0553.2  
3622 9.2 125653.8 -0539.5  
3623 10. 125714.4 -0549.4  
3624 9.6 125731.3 -0517.5  
3625 8.3 125754.6 -0526.4  
3626 9.6 125808.2 -0558.0  
3627 10. 125815.7 -0524.5  
3628 9.8 125847.2 -0553.2  
3629 9.4 125917.9 -0510.7  
3630 10. 125918.3 -0505.6

3631 9.5 125922.0 -0532.3  
3632 9.4 125925.3 -0539.7  
3633 9.3 125937.4 -0522.0  
3634 7.8 125941.2 -0518.2  
3635 9.3 125958.0 -0509.1  
3636 8.8 130029.5 -0530.3  
3637 9.8 130108.0 -0531.4  
3638 9.3 130117.9 -0504.3  
3639 9.3 130118.3 -0503.8  
3640 8.0 130119.4 -0513.1

3641 8.5 130120.5 -0540.3  
3642 10. 130129.9 -0504.8  
3643 9.3 130210.7 -0517.3  
3644 9.0 130228.9 -0500.0  
3645 9.7 130252.9 -0519.8  
3646 9.3 130308.5 -0538.6  
3647 9.8 130325.1 -0544.2  
3648 10. 130355.0 -0558.7  
3649 9.2 130409.2 -0501.5  
3650 10. 130423.0 -0546.5

-05 3740 13h31m

3651 10. 130440.3 -0534.1  
3652 9.2 130444.2 -0510.6  
3653 8.8 130451.2 -0543.8  
3654 10. 130527.1 -0544.2  
3655 9.2 130527.6 -0518.3  
3656 9.1 130548.6 -0516.7  
3657 9.5 130625.3 -0529.0  
3658 8.9 130628.9 -0502.7  
3659 9.2 130659.4 -0512.0  
3660 9.6 130714.1 -0513.2

3661 9.8 130727.5 -0555.0  
3662 10. 130735.3 -0529.0  
3663 10. 130850.5 -0510.1  
3664 9.8 130919.3 -0555.6  
3665 8.7 131004.2 -0537.8  
3666 10. 131019.6 -0500.8  
3667 9.5 131035.3 -0535.1  
3668 8.1 131047.1 -0501.1  
3669 7.5 131101.8 -0530.0  
3670 9.8 131134.3 -0530.8

3671 9.5 131138.5 -0515.6  
3672 9.3 131145.9 -0554.2  
3673 7.9 131213.4 -0546.5  
3674 9.4 131217.7 -0511.7  
3675 9.1 131242.5 -0554.9  
3676 9.9 131422.2 -0545.4  
3677 10. 131433.4 -0531.4  
3678 7.2 131459.3 -0526.2  
3679 9.3 131512.6 -0516.6  
3680 8.9 131539.7 -0500.4

3681 10. 131543.4 -0516.8  
3682 9.8 131601.6 -0545.1  
3683 10. 131620.8 -0557.1  
3684 8.5 131659.9 -0526.0  
3685 9.7 131725.4 -0519.6  
3686 9.1 131730.1 -0553.0  
3687 9.5 131803.2 -0509.8  
3688 10. 131829.3 -0527.7  
3689 10. 131833.3 -0530.8  
3690 10. 131838.3 -0529.3

3691 10. 131849.8 -0557.5  
3692 9.3 131859.1 -0534.8  
3693 8.3 131914.2 -0532.6  
3694 7.8 131921.2 -0510.5  
3695 10. 131923.5 -0513.9  
3696 10. 131929.5 -0506.3  
3697 9.6 132022.6 -0536.9  
3698 10. 132025.2 -0534.5  
3699 10. 132041.2 -0532.3  
3700 10. 132050.3 -0517.0

3701 9.0 132108.8 -0528.1  
3702 7.0 132130.6 -0512.0  
3703 9.6 132222.0 -0535.8  
3704 9.7 132235.7 -0554.0  
3705 10. 132242.4 -0508.2  
3706 6.6 132252.9 -0543.3  
3707 9.4 132258.1 -0536.1  
3708 9.7 132304.3 -0521.1  
3709 10. 132317.9 -0501.6  
3710 9.1 132343.3 -0525.7

3711 9.7 132352.2 -0531.5  
3712 10. 132407.4 -0509.2  
3713 8.2 132419.0 -0515.9  
3714 5.5 132426.1 -0530.2  
3715 8.9 132428.4 -0501.0  
3716 9.3 132444.5 -0549.5  
3717 9.2 132457.7 -0511.6  
3718 10. 132458.1 -0541.7  
3719 9.8 132500.7 -0557.5  
3720 9.7 132540.2 -0523.6

3721 10. 132608.4 -0511.8  
3722 10. 132701.3 -0526.6  
3723 9.6 132714.0 -0556.2  
3724 10. 132719.4 -0500.9  
3725 9.3 132722.9 -0522.0  
3726 10. 132723.1 -0501.7  
3727 10. 132724.2 -0506.8  
3728 9.7 132732.1 -0502.1  
3729 9.8 132800.8 -0546.7  
3730 8.0 132810.2 -0524.9

3731 10. 132850.6 -0544.8  
3732 10. 132852.4 -0510.4  
3733 9.5 132856.6 -0506.8  
3734 8.9 132913.4 -0548.9  
3735 8.7 132943.1 -0508.7  
3736 10. 132944.2 -0531.0  
3737 8.1 133005.0 -0554.6  
3738 9.8 133011.6 -0506.8  
3739 9.5 133032.2 -0536.9  
3740 10. 133124.2 -0529.8



-05 3741 13h32m

3741 9.3 133210.7 -0535.9  
3742 9.5 133231.2 -0536.5  
3743 9.5 133235.7 -0546.7  
3744 9.6 133258.0 -0502.0  
3745 9.0 133302.2 -0522.5  
3746 9.3 133326.6 -0512.9  
3747 8.5 133329.7 -0537.1  
3748 9.3 133344.1 -0532.8  
3749 9.8 133351.1 -0513.0  
3750 10. 133424.6 -0558.2  
  
3751 10. 133451.4 -0513.2  
3752 10. 133459.3 -0519.9  
3753 10. 133509.4 -0546.8  
3754 9.3 133534.7 -0549.3  
3755 9.0 133610.2 -0527.2  
3756 8.7 133712.7 -0526.2  
3757 9.5 133721.1 -0541.9  
3758 7.5 133724.3 -0516.4  
3759 9.4 133753.2 -0546.6  
3760 8.8 133824.7 -0543.3  
  
3761 9.8 133926.7 -0546.6  
3762 6.8 133951.3 -0558.6  
3763 9.6 133953.6 -0523.4  
3764 9.2 134132.6 -0540.0  
3765 9.8 134334.4 -0541.0  
3766 8.8 134348.8 -0504.4  
3767 9.4 134350.9 -0519.4  
3768 9.9 134402.0 -0504.7  
3769 10. 134406.0 -0522.9  
3770 9.8 134430.6 -0537.1  
  
3771 9.1 134501.2 -0511.9  
3772 9.5 134506.1 -0507.9  
3773 9.6 134516.2 -0500.1  
3774 8.3 134519.9 -0546.3  
3775 7.5 134602.5 -0528.3  
3776 8.5 134636.5 -0503.6  
3777 8.0 134722.5 -0510.0  
3778 8.4 134725.4 -0500.7  
3779 9.0 134834.7 -0547.0  
3780 8.3 134848.3 -0541.7  
  
3781 9.0 134855.2 -0509.6  
3782 9.0 134859.5 -0523.5  
3783 9.5 134927.5 -0512.8  
3784 10. 134938.3 -0508.2  
3785 9.8 135035.9 -0503.0  
3786 9.4 135044.6 -0549.3  
3787 9.1 135047.7 -0542.1  
3788 10. 135114.4 -0508.9  
3789 8.5 135118.5 -0551.7  
3790 9.7 135126.3 -0528.6  
  
3791 8.9 135129.2 -0553.9  
3792 9.4 135220.9 -0508.3  
3793 9.5 135245.6 -0500.7  
3794 8.9 135257.5 -0541.4  
3795 8.6 135330.8 -0546.0  
3796 9.0 135415.5 -0541.7  
3797 9.7 135507.5 -0542.2  
3798 8.0 135522.8 -0548.5  
3799 8.6 135637.5 -0546.2  
3800 9.5 135637.9 -0526.3  
  
3801 8.8 135703.4 -0507.9  
3802 7.7 135713.1 -0551.2  
3803 9.3 135713.3 -0527.4  
3804 8.8 135717.7 -0541.5  
3805 9.1 135725.5 -0523.4  
3806 8.7 135845.0 -0524.6  
3807 9.5 135850.2 -0546.9  
3808 9.5 135859.3 -0504.7  
3809 10. 135928.3 -0512.8  
3810 10. 135955.0 -0542.7  
  
3811 9.0 140015.9 -0536.5  
3812 9.2 140050.3 -0508.8  
3813 9.1 140054.7 -0547.3  
3814 9.5 140120.5 -0503.9  
3815 10. 140121.1 -0528.0  
3816 9.8 140129.6 -0543.3  
3817 10. 140143.0 -0533.8  
3818 9.7 140147.3 -0520.2  
3819 9.6 140207.8 -0510.7  
3820 9.7 140233.0 -0508.7  
  
3821 9.4 140239.0 -0506.9  
3822 9.3 140243.9 -0536.7  
3823 7.3 140252.7 -0552.2  
3824 6.8 140322.3 -0517.3  
3825 7.2 140405.3 -0510.1  
3826 7.7 140417.9 -0526.8  
3827 8.7 140426.8 -0511.0  
3828 9.4 140440.3 -0512.8  
3829 8.7 140504.2 -0540.4  
3830 9.6 140504.4 -0543.1

3831 9.5 140546.9 -0541.0  
3832 10. 140552.8 -0551.7  
3833 9.5 140554.3 -0526.1  
3834 9.2 140605.7 -0547.0  
3835 9.0 140622.8 -0511.0  
3836 9.1 140632.4 -0524.0  
3837 7.3 140648.4 -0515.9  
3838 9.8 140659.9 -0505.2  
3839 10. 140757.2 -0554.3  
3840 9.3 140804.6 -0526.0  
  
3841 9.3 140804.6 -0543.8  
3842 9.8 140808.7 -0558.1  
3843 4.5 140825.1 -0518.4  
3844 10. 140828.7 -0540.8  
3845 6.3 140845.6 -0556.5  
3846 9.4 140848.2 -0507.5  
3847 9.1 140925.1 -0500.0  
3848 7.7 140930.2 -0504.2  
3849 9.3 141001.5 -0518.4  
3850 9.5 141005.8 -0529.9  
  
3851 10. 141014.0 -0536.7  
3852 7.7 141020.2 -0518.1  
3853 9.1 141121.0 -0555.2  
3854 9.8 141139.5 -0554.3  
3855 10. 141157.0 -0536.6  
3856 10. 141158.5 -0538.8  
3857 9.6 141208.7 -0507.7  
3858 9.8 141214.1 -0526.4  
3859 9.1 141226.6 -0552.1  
3860 9.4 141241.8 -0522.1  
  
3861 10. 141321.9 -0548.2  
3862 9.5 141327.8 -0531.6  
3863 9.2 141332.1 -0519.2  
3864 8.8 141341.7 -0509.5  
3865 10. 141413.1 -0526.4  
3866 9.6 141427.8 -0500.2  
3867 9.5 141478.5 -0510.0  
3868 8.0 141533.8 -0533.9  
3869 8.4 141535.0 -0551.9  
3870 10. 141624.1 -0528.7  
  
3871 9.8 141637.8 -0541.1  
3872 9.8 141720.3 -0540.6  
3873 9.8 141721.7 -0510.3  
3874 9.4 141730.7 -0502.1  
3875 9.1 141835.2 -0525.0  
3876 9.6 141842.3 -0550.0  
3877 9.0 141916.8 -0511.7  
3878 10. 141917.0 -0549.7  
3879 9.4 141943.9 -0555.1  
3880 6.5 141948.3 -0527.5  
  
3881 8.8 142013.7 -0503.2  
3882 9.5 142043.4 -0504.9  
3883 9.2 142046.0 -0501.7  
3884 9.5 142101.6 -0545.6  
3885 9.5 142105.0 -0557.9  
3886 9.2 142125.3 -0501.8  
3887 9.5 142127.7 -0527.3  
3888 9.2 142154.0 -0523.1  
3889 10. 142157.0 -0518.9  
3890 20.0 142202.0 -0519.3  
  
3891 9.5 142204.3 -0537.3  
3892 8.2 142205.9 -0519.9  
3893 9.8 142218.3 -0528.9  
3894 8.9 142247.2 -0536.1  
3895 9.1 142301.2 -0541.2  
3896 7.8 142325.7 -0509.5  
3897 9.5 142340.2 -0517.4  
3898 9.2 142349.4 -0557.9  
3899 9.2 142425.7 -0520.2  
3900 10. 142452.0 -0545.4  
  
3901 9.5 142503.2 -0515.1  
3902 9.8 142525.4 -0553.1  
3903 8.8 142535.2 -0509.3  
3904 9.8 142706.6 -0558.2  
3905 9.3 142715.9 -0521.0  
3906 9.5 142726.5 -0503.6  
3907 9.3 142727.5 -0548.5  
3908 9.6 142739.0 -0542.0  
3909 7.5 142750.6 -0511.4  
3910 9.9 142820.2 -0519.9  
  
3911 9.5 143005.9 -0517.7  
3912 9.3 143015.7 -0552.0  
3913 8.8 143056.3 -0504.0  
3914 9.8 143058.4 -0546.0  
3915 9.2 143058.7 -0524.6  
3916 7.8 143123.1 -0509.2  
3917 9.8 143123.7 -0541.7  
3918 9.8 143124.0 -0521.5  
3919 9.3 143146.1 -0524.0  
3920 9.5 143201.9 -0558.1

3921 9.8 143238.2 -0549.1  
3922 9.8 143238.3 -0555.8  
3923 9.6 143256.7 -0537.4  
3924 9.2 143302.8 -0516.2  
3925 9.8 143308.1 -0509.2  
3926 9.5 143312.8 -0542.5  
3927 8.3 143321.5 -0549.6  
3928 8.9 143330.7 -0500.8  
3929 9.5 143331.1 -0505.4  
3930 8.9 143333.2 -0523.1  
  
3931 9.2 143345.5 -0550.9  
3932 9.3 143346.5 -0548.7  
3933 9.6 143400.2 -0523.1  
3934 8.3 143502.7 -0520.6  
3935 9.3 143504.1 -0521.0  
3936 4.2 143525.6 -0501.5  
3937 9.8 143556.7 -0556.0  
3938 9.8 143604.4 -0535.3  
3939 9.8 143606.7 -0522.8  
3940 10. 143610.9 -0545.0  
  
3941 7.6 143645.7 -0546.2  
3942 9.1 143650.8 -0500.5  
3943 9.0 143711.6 -0520.7  
3944 9.1 143820.0 -0541.6  
3945 9.7 143838.5 -0560.1  
3946 9.8 143902.3 -0521.5  
3947 9.8 143916.7 -0558.9  
3948 8.8 143925.3 -0525.6  
3949 9.3 143921.4 -0539.5  
3950 9.6 143958.7 -0520.0  
  
3951 9.4 144015.5 -0511.1  
3952 8.0 144128.9 -0508.4  
3953 8.0 144143.9 -0511.1  
3954 9.8 144220.9 -0507.1  
3955 9.4 144223.8 -0546.6  
3956 9.8 144335.4 -0507.8  
3957 9.0 144404.7 -0539.5  
3958 9.9 144408.0 -0510.3  
3959 9.6 144450.8 -0540.6  
3960 9.8 144519.5 -0553.2  
  
3961 9.5 144556.9 -0513.8  
3962 9.1 144646.3 -0501.2  
3963 9.4 144720.9 -0503.6  
3964 9.8 144731.1 -0528.2  
3965 9.3 144815.4 -0551.2  
3966 7.5 144836.4 -0547.2  
3967 9.4 144906.1 -0541.1  
3968 9.5 144907.3 -0535.5  
3969 9.1 144917.5 -0517.3  
3970 9.4 144924.0 -0512.9  
  
3971 8.0 144930.6 -0555.2  
3972 9.2 144936.7 -0516.4  
3973 9.6 145007.0 -0558.4  
3974 9.2 145023.7 -0544.8  
3975 9.8 145038.6 -0546.3  
3976 9.2 145046.7 -0540.3  
3977 8.0 145056.5 -0550.6  
3978 8.9 145100.8 -0513.0  
3979 9.9 145119.7 -0547.6  
3980 9.8 145126.4 -0535.2  
  
3981 9.6 145170.1 -0543.4  
3982 9.4 145205.7 -0520.2  
3983 9.1 145215.8 -0518.1  
3984 9.5 145220.8 -0540.1  
3985 9.4 145246.2 -0539.4  
3986 9.8 145254.0 -0533.8  
3987 9.0 145324.6 -0522.1  
3988 9.4 145334.4 -0504.5  
3989 9.8 145347.7 -0524.0  
3990 9.9 145347.7 -0528.1  
  
3991 9.8 145348.1 -0512.5  
3992 9.6 145360.1 -0535.8  
3993 9.5 145442.9 -0549.9  
3994 9.2 145501.0 -0502.2  
3995 9.5 145521.8 -0544.9  
3996 9.5 145535.3 -0553.3  
3997 9.3 145535.6 -0504.0  
3998 9.5 145542.9 -0517.2  
3999 9.0 145553.4 -0519.9  
4000 9.0 145618.8 -0555.2  
  
4001 9.5 145625.5 -0548.7  
4002 9.4 145633.0 -0530.1  
4003 8.8 145643.5 -0532.3  
4004 9.5 145652.7 -0513.2  
4005 8.8 145704.6 -0536.5  
4006 9.1 145716.5 -0548.8  
4007 9.6 145815.4 -0536.1  
4008 9.7 145820.8 -0504.6  
4009 9.7 145847.1 -0542.7  
4010 9.7 145852.5 -0537.7

4011 8.8 145917.3 -0516.5  
4012 9.7 145947.8 -0516.7  
4013 9.7 145954.5 -0543.7  
4014 9.6 150002.0 -0566.5  
4015 9.8 150026.3 -0514.5  
4016 9.2 150035.4 -0523.4  
4017 7.5 150110.0 -0536.3  
4018 8.5 150116.6 -0504.1  
4019 9.6 150119.3 -0532.8  
4020 9.5 150122.2 -0507.3  
  
4021 9.0 150142.8 -0540.6  
4022 9.4 150200.7 -0559.9  
4023 9.5 150224.4 -0537.8  
4024 9.5 150232.3 -0541.4  
4025 9.4 150257.0 -0542.2  
4026 9.5 150257.2 -0502.1  
4027 9.8 150337.2 -0509.9  
4028 9.8 150349.7 -0517.5  
4029 8.7 150402.7 -0517.7  
4030 9.5 150438.6 -0508.8  
  
4031 9.4 150505.3 -0520.9  
4032 9.5 150551.5 -0550.2  
4033 8.9 150616.2 -0513.1  
4034 8.1 150649.8 -0524.3  
4035 9.5 150705.5 -0556.6  
4036 9.3 150708.2 -0500.7  
4037 9.5 150713.7 -0555.7  
4038 9.7 150716.3 -0522.7  
4039 9.0 150802.5 -0551.6  
4040 8.8 150816.3 -0504.7  
  
4041 9.5 150819.9 -0530.8  
4042 9.5 150832.3 -0519.4  
4043 9.8 150850.4 -0541.7  
4044 8.9 150915.8 -0518.5  
4045 9.5 150935.8 -0559.1  
4046 9.5 150956.3 -0523.1  
4047 9.5 151020.6 -0559.4  
4048 9.7 151027.2 -0546.5  
4049 9.7 151031.4 -0520.5  
4050 9.5 151032.4 -0503.4  
  
4051 9.4 151043.2 -0504.7  
4052 9.5 151152.7 -0514.6  
4053 8.9 151208.5 -0557.5  
4054 9.4 151229.6 -0544.7  
4055 9.8 151300.4 -0529.3  
4056 9.8 151328.8 -0526.2  
4057 6.0 151328.8 -0517.6  
4058 9.5 151327.7 -0516.8  
4059 9.3 151430.3 -0534.7  
4060 8.6 151431.1 -0504.8  
  
4061 9.1 151459.2 -0513.7  
4062 9.4 151507.2 -0516.0  
4063 9.0 151534.1 -0511.3  
4064 9.8 151627.4 -0554.4  
4065 9.4 151636.5 -0505.6  
4066 9.0 151644.5 -0542.0  
4067 8.8 151710.1 -0546.2  
4068 9.5 151713.4 -0503.1  
4069 7.5 151723.5 -0544.0  
4070 7.7 151726.2 -0524.0  
  
4071 8.5 151744.1 -0513.5  
4072 9.6 151748.3 -0548.3  
4073 9.6 151811.0 -0518.6  
4074 9.5 151818.4 -0557.4  
4075 9.5 151843.0 -0542.5  
4076 8.7 151859.0 -0509.0  
4077 9.0 151904.4 -0512.5  
4078 8.8 151904.7 -0523.9  
4079 8.0 151928.6 -0518.5  
4080 9.5 152011.7 -0559.9  
  
4081 7.8 152031.4 -0555.5  
4082 9.8 152039.2 -0521.5  
4083 7.9 152042.8 -0529.9  
4084 9.2 152051.6 -0508.2  
4085 9.8 152053.7 -0527.0  
4086 7.8 152116.1 -0545.9  
4087 9.4 152206.3 -0502.1  
4088 10. 152222.4 -0527.3  
4089 8.8 152309.2 -0518.6  
4090 8.9 152322.9 -0553.5  
  
4091 9.4 152341.1 -0501.2  
4092 9.0 152348.9 -0551.8  
4093 9.2 152415.8 -0552.0  
4094 9.6 152447.2 -0525.2  
4095 9.6 152448.8 -0527.5  
4096 9.4 152458.1 -0540.9  
4097 9.8 152538.9 -0505.0  
4098 9.4 152558.1 -0510.4  
4099 9.2 152634.2 -0516.9  
4100 6.5 152641.1 -0512.2

-05 4100 15h26m



-05 4101 15h27m

4101 9.6 152706.3 -0528.1  
4102 9.8 152711.9 -0556.0  
4103 9.8 152720.3 -0530.6  
4104 9.0 152734.7 -0527.2  
4105 9.9 152740.6 -0515.6  
4106 9.8 152748.2 -0521.4  
4107 9.1 152750.0 -0525.5  
4108 9.3 152750.1 -0538.8  
4109 9.3 152750.8 -0530.1  
4110 9.4 152757.8 -0505.1

4111 9.5 152804.2 -0522.2  
4112 7.8 152830.6 -0554.0  
4113 9.3 152830.7 -0518.3  
4114 8.0 152844.2 -0521.6  
4115 9.4 152866.2 -0518.1  
4116 9.8 152909.4 -0555.2  
4117 7.0 152912.3 -0533.0  
4118 8.8 152919.1 -0506.1  
4119 8.6 152924.7 -0527.0  
4120 9.8 152925.8 -0537.5

4121 9.1 152945.8 -0550.1  
4122 9.0 152953.7 -0545.2  
4123 9.0 153006.1 -0514.9  
4124 9.3 153012.2 -0522.5  
4125 8.0 153034.7 -0539.3  
4126 9.5 153039.2 -0553.7  
4127 9.4 153044.0 -0549.2  
4128 8.2 153104.1 -0550.7  
4129 9.8 153108.7 -0528.5  
4130 8.5 153120.6 -0532.9

4131 9.4 153148.5 -0508.8  
4132 9.5 153152.3 -0559.9  
4133 9.4 153157.2 -0541.9  
4134 9.3 153234.6 -0518.6  
4135 9.2 153249.7 -0537.5  
4136 8.4 153310.0 -0509.7  
4137 9.4 153326.2 -0558.4  
4138 9.2 153336.1 -0514.8  
4139 8.0 153339.4 -0530.7  
4140 9.8 153341.5 -0515.0

4141 9.6 153347.2 -0555.8  
4142 9.8 153353.8 -0557.3  
4143 7.0 153402.9 -0558.4  
4144 9.8 153436.3 -0509.2  
4145 9.0 153436.9 -0533.6  
4146 10. 153442.6 -0544.7  
4147 9.6 153451.2 -0548.5  
4148 9.3 153513.1 -0550.7  
4149 9.8 153515.9 -0504.4  
4150 9.6 153540.8 -0549.8

4151 9.0 153559.5 -0514.5  
4152 9.6 153610.3 -0551.6  
4153 9.9 153628.7 -0546.8  
4154 9.3 153635.4 -0547.8  
4155 9.8 153638.7 -0536.6  
4156 9.1 153640.8 -0522.3  
4157 9.2 153642.5 -0514.7  
4158 7.2 153745.7 -0541.3  
4159 9.0 153758.7 -0537.4  
4160 9.8 153900.1 -0523.1

4161 6.3 153903.3 -0540.3  
4162 9.5 153930.4 -0545.8  
4163 9.5 154014.6 -0533.6  
4164 9.5 154043.5 -0515.3  
4165 9.0 154046.6 -0522.7  
4166 9.4 154116.2 -0544.1  
4167 9.7 154120.5 -0518.8  
4168 9.8 154128.9 -0528.4  
4169 9.8 154138.3 -0555.5  
4170 9.2 154204.6 -0521.7

4171 8.8 154221.3 -0503.8  
4172 9.2 154223.1 -0529.3  
4173 9.3 154235.6 -0524.9  
4174 9.1 154246.7 -0542.3  
4175 9.8 154259.5 -0518.6  
4176 9.8 154301.0 -0535.1  
4177 9.8 154302.7 -0543.3  
4178 8.3 154314.2 -0553.1  
4179 9.2 154315.4 -0550.0  
4180 9.9 154344.0 -0540.8

4181 9.0 154353.1 -0530.0  
4182 8.5 154359.0 -0532.9  
4183 9.5 154413.3 -0540.9  
4184 9.7 154425.5 -0509.8  
4185 9.0 154505.0 -0515.3  
4186 9.0 154615.5 -0518.0  
4187 8.8 154632.5 -0513.8  
4188 9.4 154703.5 -0543.1  
4189 9.5 154705.6 -0519.8  
4190 9.8 154727.2 -0556.3

4191 9.4 154736.7 -0554.3  
4192 9.3 154802.4 -0539.9  
4193 9.2 154810.0 -0516.9  
4194 9.5 154813.1 -0547.3  
4195 9.2 154817.6 -0538.9  
4196 9.3 154908.3 -0545.0  
4197 9.8 154913.5 -0515.9  
4198 9.5 154918.0 -0547.7  
4199 7.0 154925.8 -0552.8  
4200 9.0 154937.1 -0532.5

4201 8.8 154939.6 -0548.0  
4202 9.7 154947.6 -0540.9  
4203 9.1 155017.3 -0545.0  
4204 9.9 155021.5 -0551.4  
4205 9.4 155022.4 -0507.4  
4206 8.3 155037.4 -0503.7  
4207 9.3 155129.4 -0510.0  
4208 9.1 155138.9 -0508.4  
4209 9.8 155147.5 -0514.8  
4210 7.0 155203.6 -0542.6

4211 9.8 155214.0 -0520.0  
4212 9.5 155224.5 -0531.4  
4213 8.3 155252.4 -0514.2  
4214 9.4 155258.5 -0524.0  
4215 9.0 155317.1 -0533.0  
4216 8.8 155357.9 -0517.1  
4217 9.5 155440.1 -0504.9  
4218 9.6 155445.4 -0510.0  
4219 9.1 155448.2 -0526.6  
4220 9.0 155455.6 -0536.8

4221 7.0 155521.6 -0525.5  
4222 8.8 155629.2 -0521.6  
4223 9.5 155641.5 -0525.7  
4224 9.3 155645.8 -0555.1  
4225 9.1 155648.1 -0513.3  
4226 10. 155651.0 -0541.5  
4227 8.9 155654.1 -0519.9  
4228 9.7 155719.3 -0542.4  
4229 9.5 155731.7 -0559.7  
4230 9.1 155739.0 -0514.2

4231 7.8 155743.2 -0553.4  
4232 8.9 155752.0 -0537.0  
4233 9.5 155754.8 -0556.2  
4234 6.3 155800.2 -0553.4  
4235 6.7 155816.9 -0544.8  
4236 8.7 155819.7 -0503.6  
4237 9.0 155832.8 -0508.9  
4238 9.9 155832.8 -0519.2  
4239 9.8 155850.4 -0539.3  
4240 9.0 155811.5 -0537.5

4241 9.1 155934.4 -0506.2  
4242 9.4 155935.8 -0512.3  
4243 9.5 160018.1 -0559.6  
4244 9.3 160056.4 -0552.8  
4245 9.4 160057.0 -0549.6  
4246 8.7 160123.7 -0519.0  
4247 9.3 160130.6 -0526.1  
4248 9.3 160149.8 -0502.1  
4249 9.4 160254.5 -0532.4  
4250 9.5 160323.5 -0504.1

4251 9.5 160330.7 -0543.8  
4252 9.0 160350.9 -0512.1  
4253 9.4 160433.0 -0506.6  
4254 8.9 160512.2 -0555.0  
4255 9.7 160538.8 -0543.7  
4256 9.4 160540.4 -0537.1  
4257 9.8 160547.0 -0543.3  
4258 9.4 160553.5 -0508.8  
4259 8.5 160600.4 -0551.3  
4260 9.7 160655.7 -0543.4

4261 9.2 160703.5 -0530.0  
4262 9.1 160728.2 -0521.8  
4263 9.7 160800.7 -0501.2  
4264 9.3 160815.5 -0530.7  
4265 9.2 160827.9 -0508.6  
4266 6.8 160907.0 -0507.4  
4267 8.8 160917.9 -0551.6  
4268 10. 160918.4 -0547.7  
4269 9.6 160940.8 -0513.9  
4270 8.1 160955.0 -0545.6

4271 9.0 161007.9 -0509.6  
4272 9.2 161011.4 -0500.1  
4273 9.2 161044.9 -0542.9  
4274 9.5 161047.7 -0521.1  
4275 9.3 161102.8 -0545.0  
4276 8.9 161105.1 -0538.2  
4277 9.8 161118.8 -0540.3  
4278 9.4 161127.8 -0545.4  
4279 9.8 161132.4 -0547.6  
4280 9.6 161151.5 -0546.5

4281 9.9 161248.3 -0536.0  
4282 8.3 161434.7 -0519.8  
4283 9.4 161435.6 -0514.6  
4284 9.4 161444.0 -0514.9  
4285 10. 161530.4 -0543.2  
4286 9.3 161610.4 -0504.7  
4287 9.6 161620.1 -0503.0  
4288 9.6 161703.4 -0559.5  
4289 9.4 161712.4 -0542.9  
4290 9.6 161720.8 -0513.8

4291 9.2 161724.9 -0507.5  
4292 7.8 161755.4 -0533.4  
4293 8.4 161805.9 -0545.8  
4294 9.0 161807.8 -0516.2  
4295 9.5 161820.0 -0525.9  
4296 9.3 161824.6 -0526.9  
4297 9.3 161838.2 -0552.8  
4298 9.3 161902.3 -0503.2  
4299 9.7 162036.8 -0558.9  
4300 9.2 162037.1 -0522.3

4301 9.5 162040.7 -0531.4  
4302 9.3 162045.6 -0536.9  
4303 9.5 162047.6 -0539.5  
4304 8.2 162107.0 -0507.4  
4305 9.5 162119.1 -0536.4  
4306 9.4 162124.5 -0512.5  
4307 8.3 162128.0 -0507.5  
4308 9.8 162134.7 -0557.8  
4309 8.3 162243.8 -0546.5  
4310 9.5 162254.6 -0505.0

4311 9.5 162329.3 -0502.3  
4312 9.5 162408.9 -0518.2  
4313 9.5 162415.0 -0550.6  
4314 9.6 162450.0 -0504.5  
4315 9.4 162457.6 -0554.0  
4316 9.0 162552.8 -0518.4  
4317 9.2 162636.5 -0544.6  
4318 7.8 162643.8 -0549.9  
4319 9.7 162710.9 -0503.7  
4320 8.9 162736.6 -0555.5

4321 8.2 162757.5 -0558.6  
4322 9.5 162843.7 -0526.5  
4323 7.8 162903.5 -0559.7  
4324 8.5 162909.9 -0517.2  
4325 9.1 162949.9 -0512.8  
4326 9.6 163002.2 -0504.4  
4327 9.3 163014.8 -0545.5  
4328 9.0 163036.2 -0541.2  
4329 9.1 163110.7 -0549.1  
4330 9.8 163142.7 -0547.7

4331 9.4 163148.6 -0525.6  
4332 10. 163157.3 -0544.8  
4333 9.4 163203.5 -0556.5  
4334 6.6 163217.3 -0547.2  
4335 9.3 163252.1 -0554.0  
4336 9.5 163300.9 -0513.8  
4337 9.8 163311.7 -0502.3  
4338 9.6 163325.5 -0553.8  
4339 9.7 163414.4 -0518.7  
4340 9.5 163419.6 -0551.0

4341 9.4 163540.8 -0525.0  
4342 9.5 163605.7 -0502.9  
4343 9.0 163613.2 -0522.7  
4344 8.3 163643.2 -0524.8  
4345 9.4 163651.8 -0525.9  
4346 8.7 163709.6 -0501.9  
4347 9.0 163759.2 -0541.1  
4348 9.1 163837.3 -0550.9  
4349 9.4 163856.8 -0520.0  
4350 8.5 163939.0 -0557.6

4351 9.6 164012.6 -0533.2  
4352 9.5 164033.4 -0510.8  
4353 9.8 164034.3 -0503.9  
4354 9.5 164038.5 -0536.1  
4355 9.5 164056.8 -0541.2  
4356 9.4 164128.4 -0509.1  
4357 9.5 164150.7 -0542.0  
4358 9.4 164157.4 -0506.4  
4359 9.4 164232.2 -0520.1  
4360 8.8 164340.5 -0555.3

4361 9.8 164408.0 -0530.0  
4362 9.5 164415.2 -0518.9  
4363 9.8 164419.7 -0512.0  
4364 7.8 164430.7 -0532.3  
4365 9.8 164431.7 -0540.6  
4366 10. 164449.2 -0537.3  
4367 9.6 164540.4 -0559.8  
4368 9.8 164601.9 -0536.0  
4369 9.5 164614.6 -0548.8  
4370 9.5 164616.8 -0543.5

4371 9.7 164626.4 -0544.9  
4372 9.2 164634.9 -0537.7  
4373 9.4 164643.1 -0541.8  
4374 5.3 164651.0 -0554.6  
4375 8.8 164658.0 -0528.0  
4376 8.9 164719.4 -0541.5  
4377 9.5 164743.1 -0542.5  
4378 7.5 164803.0 -0553.2  
4379 9.3 164810.1 -0543.1  
4380 9.8 164846.3 -0513.3

4381 9.1 164848.0 -0554.0  
4382 9.5 164851.3 -0510.2  
4383 8.9 164928.5 -0527.4  
4384 9.5 164937.9 -0540.7  
4385 9.3 164951.9 -0504.8  
4386 9.8 164952.9 -0536.8  
4387 9.4 165011.5 -0504.8  
4388 9.4 165033.4 -0500.9  
4389 9.0 165128.4 -0541.3  
4390 8.6 165146.8 -0536.4

4391 9.8 165222.9 -0557.8  
4392 9.8 165426.0 -0527.6  
4393 8.9 165454.6 -0528.1  
4394 9.8 165506.0 -0551.3  
4395 9.2 165615.4 -0506.5  
4396 9.5 165635.3 -0546.6  
4397 9.4 165705.5 -0502.7  
4398 9.0 165712.6 -0523.6  
4399 9.2 165808.4 -0530.4  
4400 9.5 165818.1 -0525.5

4401 8.3 165823.9 -0558.0  
4402 9.8 165824.6 -0540.7  
4403 9.6 165827.3 -0540.7  
4404 9.5 165838.7 -0557.9  
4405 9.5 165844.4 -0531.0  
4406 9.3 165855.8 -0542.7  
4407 9.5 165930.2 -0500.6  
4408 8.8 170040.1 -0506.0  
4409 8.0 170107.0 -0500.0  
4410 9.3 170247.9 -0553.7

4411 9.3 170305.4 -0555.0  
4412 8.3 170313.1 -0520.7  
4413 9.2 170331.3 -0507.2  
4414 9.4 170336.5 -0558.9  
4415 9.8 170407.9 -0534.2  
4416 9.8 170435.9 -0504.2  
4417 10. 170515.4 -0507.9  
4418 9.5 170636.3 -0555.5  
4419 9.7 170748.3 -0505.0  
4420 9.4 170755.4 -0518.4

4421 9.6 170801.1 -0508.1  
4422 8.8 170959.0 -0502.7  
4423 9.6 171027.0 -0512.2  
4424 9.8 171027.5 -0526.9  
4425 9.7 171034.4 -0500.2  
4426 6.5 171213.8 -0545.2  
4427 9.2 171218.4 -0513.7  
4428 9.3 171230.1 -0506.1  
4429 8.3 171235.3 -0520.9  
4430 9.6 171317.4 -0551.1

4431 9.8 171355.1 -0558.8  
4432 9.7 171440.3 -0508.3  
4433 9.7 171450.4 -0511.7  
4434 9.1 171450.4 -0530.4  
4435 9.5 171538.7 -0553.5  
4436 8.2 171539.6 -0517.8  
4437 9.5 171559.2 -0531.5  
4438 8.0 171633.0 -0511.0  
4439 9.5 171638.0 -0529.6  
4440 9.1 171712.2 -0553.6

4441 9.8 171715.9 -0512.4  
4442 9.8 171718.2 -0509.3  
4443 9.1 171820.1 -0529.6  
4444 8.9 171824.3 -0517.3  
4445 9.1 171918.0 -0559.0  
4446 9.5 171932.3 -0536.4  
4447 8.8 171939.0 -0536.6  
4448 9.3 172005.8 -0554.9  
4449 8.5 172058.3 -0531.0  
4450 6.6 172202.5 -0547.8

4451 9.5 172211.6 -0547.6  
4452 9.5 172223.0 -0536.1  
4453 8.7 172246.6 -0558.4  
4454 8.5 172255.7 -0512.7  
4455 9.1 172311.7 -0531.1  
4456 9.5 172342.8 -0554.9  
4457 8.8 172403.9 -0533.1  
4458 9.3 172449.8 -0555.2  
4459 9.8 172455.3 -0531.8  
4460 9.2 172524.7 -0531.0

-05 4460 17h25m



-05 4461 17h25m

4461 6.2 172545.6 -0537.8  
4462 9.8 172603.4 -0501.7  
4463 9.8 172621.7 -0546.8  
4464 9.8 172729.8 -0559.1  
4465 7.5 172744.6 -0550.0  
4466 9.8 172844.1 -0545.9  
4467 8.8 173010.7 -0505.2  
4468 9.5 173015.2 -0530.4  
4469 9.8 173016.0 -0526.1  
4470 9.1 173043.7 -0513.2

4471 9.8 173052.7 -0527.2  
4472 8.8 173104.4 -0535.0  
4473 9.4 173104.7 -0520.8  
4474 9.7 173117.2 -0547.8  
4475 8.2 173118.9 -0525.5  
4476 8.6 173147.5 -0546.2  
4477 9.0 173220.7 -0518.0  
4478 9.5 173224.7 -0524.0  
4479 9.4 173254.0 -0545.2  
4480 9.0 173303.6 -0515.5

4481 8.3 173323.8 -0555.9  
4482 9.5 173326.2 -0535.0  
4483 9.5 173340.2 -0532.2  
4484 9.1 173355.1 -0512.6  
4485 9.7 173443.1 -0545.4  
4486 9.4 173520.8 -0557.2  
4487 9.1 173558.8 -0559.6  
4488 7.4 173615.8 -0551.3  
4489 9.4 173728.6 -0533.7  
4490 9.5 173731.8 -0510.0

4491 9.2 173745.5 -0550.9  
4492 9.8 173754.6 -0549.0  
4493 9.3 173759.9 -0539.7  
4494 9.8 173814.8 -0541.1  
4495 9.2 173834.3 -0540.5  
4496 9.6 173853.4 -0501.8  
4497 9.4 173859.3 -0538.2  
4498 9.5 173912.8 -0556.3  
4499 9.5 173913.4 -0538.0  
4500 9.5 173916.2 -0516.3

4501 9.6 174000.8 -0539.2  
4502 9.6 174038.6 -0551.9  
4503 9.5 174061.8 -0523.8  
4504 9.8 174130.4 -0555.4  
4505 9.8 174148.0 -0500.8  
4506 9.4 174159.3 -0530.8  
4507 10. 174227.1 -0554.3  
4508 9.4 174234.0 -0540.7  
4509 8.2 174301.2 -0517.1  
4510 9.4 174340.1 -0511.9

4511 9.0 174400.7 -0535.0  
4512 9.3 174408.2 -0529.2  
4513 9.8 174417.4 -0559.3  
4514 8.5 174434.5 -0523.4  
4515 9.3 174440.6 -0508.1  
4516 9.0 174442.0 -0541.4  
4517 8.8 174450.8 -0516.8  
4518 9.9 174453.3 -0543.2  
4519 6.7 174553.6 -0513.4  
4520 9.5 174438.9 -0552.5

4521 7.8 174508.2 -0518.7  
4522 9.4 174523.8 -0524.2  
4523 7.2 174529.4 -0553.4  
4524 9.6 174546.8 -0535.0  
4525 10. 174550.2 -0538.5  
4526 9.1 174606.4 -0544.2  
4527 9.3 174611.1 -0500.1  
4528 9.2 174623.4 -0548.7  
4529 9.6 174657.4 -0535.5  
4530 9.4 174703.4 -0502.8

4531 9.2 174708.6 -0502.4  
4532 9.4 174744.3 -0523.7  
4533 9.9 174748.7 -0550.9  
4534 9.3 174752.8 -0501.3  
4535 9.5 174817.4 -0505.7  
4536 9.5 174835.3 -0526.9  
4537 8.0 174836.0 -0517.6  
4538 9.6 174858.2 -0540.4  
4539 9.2 174904.3 -0553.2  
4540 9.6 174926.2 -0539.5

4541 8.7 175009.0 -0540.2  
4542 7.5 175101.3 -0524.3  
4543 7.3 175121.2 -0501.8  
4544 9.3 175124.3 -0522.1  
4545 9.4 175139.0 -0547.2  
4546 9.4 175141.9 -0505.5  
4547 9.2 175157.4 -0557.8  
4548 9.2 175157.8 -0551.5  
4549 9.1 175206.6 -0548.4  
4550 8.9 175210.3 -0524.4

4551 9.4 175252.4 -0553.8  
4552 9.4 175252.6 -0533.1  
4553 9.8 175257.3 -0554.7  
4554 9.5 175259.3 -0535.5  
4555 8.8 175310.2 -0518.4  
4556 9.5 175356.0 -0500.4  
4557 9.8 175359.8 -0556.5  
4558 9.2 175419.7 -0520.6  
4559 7.8 175438.1 -0543.8  
4560 7.0 175502.7 -0520.9

4561 9.6 175522.6 -0546.3  
4562 9.5 175522.8 -0537.0  
4563 9.6 175526.6 -0551.3  
4564 8.9 175615.8 -0557.4  
4565 9.3 175627.7 -0520.3  
4566 9.7 175717.3 -0539.8  
4567 8.7 175756.0 -0536.6  
4568 9.5 175816.9 -0553.7  
4569 9.5 175837.8 -0546.6  
4570 9.8 175844.0 -0535.1

4571 9.0 175857.9 -0504.7  
4572 9.5 175934.5 -0530.8  
4573 9.7 180018.3 -0558.0  
4574 9.2 180028.1 -0558.9  
4575 9.8 180039.6 -0543.0  
4576 9.0 180048.7 -0504.4  
4577 8.3 180102.8 -0528.7  
4578 9.3 180109.5 -0514.4  
4579 9.4 180139.7 -0538.5  
4580 9.2 180142.8 -0541.8

4581 9.4 180144.3 -0514.6  
4582 7.5 180151.9 -0540.3  
4583 9.5 180159.4 -0535.6  
4584 9.4 180155.5 -0529.0  
4585 9.4 180333.5 -0538.8  
4586 6.3 180343.4 -0513.7  
4587 9.0 180351.0 -0546.5  
4588 9.4 180406.8 -0505.3  
4589 7.0 180410.7 -0539.0  
4590 8.5 180423.9 -0520.4

4591 9.1 180440.5 -0538.6  
4592 9.0 180444.6 -0552.7  
4593 9.0 180504.4 -0509.6  
4594 9.8 180511.3 -0514.5  
4595 9.0 180523.5 -0529.9  
4596 9.5 180536.4 -0547.2  
4597 9.2 180537.2 -0528.8  
4598 9.5 180601.3 -0519.4  
4599 9.8 180617.5 -0516.8  
4600 9.5 180611.5 -0522.3

4601 9.3 180614.0 -0501.2  
4602 7.8 180645.0 -0536.4  
4603 9.4 180646.1 -0506.3  
4604 8.9 180654.7 -0515.0  
4605 9.3 180656.2 -0514.3  
4606 9.4 180721.1 -0556.8  
4607 9.4 180726.4 -0526.0  
4608 7.0 180750.3 -0530.7  
4609 9.2 180800.4 -0551.0  
4610 9.5 180806.0 -0545.2

4611 9.5 180811.8 -0509.5  
4612 9.4 180825.6 -0503.5  
4613 9.3 180833.9 -0552.8  
4614 9.3 180840.4 -0545.9  
4615 9.4 180853.5 -0507.3  
4616 9.5 180858.0 -0531.6  
4617 9.8 180917.8 -0504.8  
4618 8.5 180943.7 -0533.8  
4619 9.8 181017.5 -0531.6  
4620 9.0 181022.4 -0556.5

4621 8.3 181034.3 -0559.7  
4622 9.0 181056.0 -0526.8  
4623 9.1 181103.4 -0520.5  
4624 8.0 181133.5 -0532.2  
4625 9.4 181155.1 -0541.9  
4626 7.5 181204.4 -0500.9  
4627 9.8 181215.6 -0536.6  
4628 9.4 181219.5 -0529.2  
4629 9.5 181221.4 -0559.1  
4630 9.3 181229.8 -0507.4

4631 9.1 181254.0 -05\*\*4  
4632 9.4 181201.9 -0513.9  
4633 9.7 181319.5 -0558.0  
4634 9.4 181337.1 -0555.7  
4635 9.9 181340.5 -0543.6  
4636 9.0 181400.7 -0548.3  
4637 9.5 181407.3 -0552.8  
4638 10. 181420.6 -0541.2  
4639 9.7 181420.9 -0533.1  
4640 9.8 181421.4 -0554.6

4641 9.0 181424.3 -0520.6  
4642 9.0 181434.9 -0515.9  
4643 8.8 181441.4 -0508.5  
4644 9.0 181456.7 -0546.3  
4645 9.1 181534.0 -0527.8  
4646 8.1 181538.9 -0513.0  
4647 8.8 181539.4 -0558.5  
4648 8.6 181540.2 -0539.1  
4649 9.3 181550.1 -0551.6  
4650 9.0 181633.9 -0556.3

4651 9.5 181645.0 -0525.4  
4652 8.3 181649.1 -0504.2  
4653 8.5 181717.4 -0521.2  
4654 8.6 181745.4 -0543.1  
4655 9.4 181827.5 -0538.6  
4656 9.6 181827.5 -0536.1  
4657 8.0 181852.2 -0540.7  
4658 9.7 181920.1 -0551.4  
4659 9.8 181939.6 -0556.7  
4660 9.3 181944.8 -0540.1

4661 9.8 181954.4 -0514.1  
4662 9.4 181958.9 -0518.6  
4663 9.0 182005.1 -0540.9  
4664 9.6 182013.5 -0528.2  
4665 9.0 182038.4 -0553.8  
4666 10. 182103.3 -0557.1  
4667 8.8 182127.3 -0507.7  
4668 9.8 182128.2 -0514.1  
4669 9.4 182137.3 -0505.3  
4670 9.4 182144.7 -0542.7

4671 9.5 182146.0 -0538.2  
4672 9.8 182147.6 -0555.7  
4673 9.3 182218.7 -0527.3  
4674 9.4 182221.4 -0500.2  
4675 6.2 182229.3 -0548.9  
4676 9.3 182258.3 -0546.7  
4677 8.3 182311.6 -0506.0  
4678 7.3 182324.0 -0553.1  
4679 9.2 182330.9 -0526.5  
4680 9.8 182423.3 -0505.8

4681 9.8 182430.2 -0539.0  
4682 9.4 182453.4 -0509.1  
4683 9.1 182458.0 -0528.4  
4684 9.8 182503.9 -0537.1  
4685 9.0 182517.9 -0522.8  
4686 7.0 182523.6 -0515.2  
4687 9.1 182526.0 -0523.9  
4688 9.5 182545.5 -0529.9  
4689 9.8 182546.3 -0508.7  
4690 9.7 182612.7 -0553.7

4691 9.5 182622.3 -0506.9  
4692 9.5 182625.4 -0536.1  
4693 9.7 182642.2 -0558.6  
4694 9.2 182653.5 -0527.7  
4695 9.8 182703.6 -0501.0  
4696 9.2 182800.4 -0521.9  
4697 9.1 182814.5 -0531.0  
4698 9.5 182827.9 -0535.1  
4699 9.5 182840.5 -0513.8  
4700 9.9 182852.6 -0530.4

4701 9.7 182856.2 -0559.6  
4702 9.6 182904.2 -0506.2  
4703 9.1 182908.6 -0519.0  
4704 9.2 182908.7 -0505.3  
4705 9.6 182943.5 -0542.2  
4706 9.4 182950.4 -0530.7  
4707 9.0 182955.2 -0510.0  
4708 9.8 183015.0 -0537.3  
4709 8.9 183021.2 -0502.7  
4710 9.4 183026.6 -0526.6

4711 9.2 183053.2 -0557.6  
4712 9.7 183058.0 -0547.9  
4713 9.4 183114.6 -0550.1  
4714 8.8 183119.0 -0550.3  
4715 9.6 183155.4 -0552.9  
4716 9.6 183218.7 -0552.3  
4717 8.7 183222.5 -0553.9  
4718 9.3 183237.9 -0537.8  
4719 8.2 183247.0 -0550.2  
4720 9.2 183248.0 -0553.7

4721 8.5 183303.9 -0528.8  
4722 9.8 183312.2 -0551.9  
4723 9.8 183312.7 -0549.0  
4724 9.8 183314.2 -0548.4  
4725 9.9 183334.0 -0545.8  
4726 9.8 183349.4 -0522.5  
4727 9.5 183353.9 -0532.5  
4728 9.6 183354.7 -0529.4  
4729 9.9 183355.0 -0559.1  
4730 9.7 183356.5 -0501.6

-05 4820 18h49m

4731 9.6 183410.6 -0503.9  
4732 9.2 183446.4 -0517.8  
4733 9.7 183452.2 -0550.9  
4734 9.3 183511.2 -0558.2  
4735 9.8 183530.5 -0509.3  
4736 7.8 183539.2 -0550.0  
4737 9.2 183541.0 -0555.1  
4738 8.3 183546.5 -0536.3  
4739 9.3 183603.2 -0532.3  
4740 9.8 183613.6 -0539.0

4741 9.3 183626.5 -0508.8  
4742 9.1 183633.2 -0501.2  
4743 9.5 183654.4 -0512.8  
4744 8.2 183701.1 -0519.6  
4745 8.3 183721.5 -0538.6  
4746 9.3 183726.0 -0558.4  
4747 9.1 183733.5 -0532.6  
4748 9.6 183756.0 -0544.4  
4749 9.5 183800.9 -0518.6  
4750 9.4 183815.4 -0544.5

4751 9.0 183817.6 -0547.8  
4752 9.5 183840.7 -0500.5  
4753 9.5 183859.5 -0537.5  
4754 9.5 183901.2 -0503.4  
4755 9.8 183919.9 -0522.7  
4756 9.2 183921.9 -0548.5  
4757 9.5 183923.9 -0549.2  
4758 9.6 183935.5 -0511.7  
4759 9.5 183942.9 -0502.7  
4760 30.0 183945.2 -0551.1

4761 9.5 183953.7 -0502.4  
4762 9.5 184006.1 -0500.6  
4763 9.8 184011.6 -0554.0  
4764 9.7 184014.0 -0548.2  
4765 9.7 184015.0 -0552.6  
4766 9.3 184033.0 -0531.1  
4767 9.3 184038.4 -0514.4  
4768 8.3 184040.0 -0505.4  
4769 9.5 184046.0 -0540.1  
4770 9.8 184046.1 -0535.5

4771 9.3 184107.6 -0556.4  
4772 9.8 184139.5 -0539.8  
4773 9.5 184202.9 -0518.0  
4774 9.1 184210.0 -0527.1  
4775 8.3 184220.1 -0506.8  
4776 9.8 184235.3 -0558.9  
4777 8.7 184248.0 -0532.9  
4778 8.4 184252.1 -0507.2  
4779 9.5 184252.3 -0556.0  
4780 9.5 184302.7 -0522.0

4781 9.3 184316.2 -0553.7  
4782 9.3 184320.4 -0549.9  
4783 9.3 184335.9 -0508.2  
4784 9.6 184353.1 -0529.3  
4785 9.8 184354.0 -0534.3  
4786 8.5 184356.0 -0530.1  
4787 8.5 184404.8 -0515.4  
4788 9.0 184417.9 -0519.4  
4789 9.5 184427.4 -0552.1  
4790 9.2 184442.0 -0532.1

4791 9.3 184446.0 -0505.2  
4792 9.0 184446.5 -0530.4  
4793 9.5 184451.5 -0536.9  
4794 8.7 184535.6 -0525.0  
4795 9.5 184538.5 -0540.1  
4796 9.5 184544.2 -0552.5  
4797 9.6 184549.8 -0540.9  
4798 8.7 184558.2 -0542.1  
4799 10. 184610.4 -0554.2  
4800 8.8 184616.1 -0549.3

4801 9.5 184636.9 -0513.7  
4802 8.7 184642.7 -0533.1  
4803 9.5 184648.0 -0529.1  
4804 9.1 184648.5 -0555.2  
4805 9.4 184652.0 -0527.5  
4806 9.1 184656.9 -0513.0  
4807 8.0 184738.4 -0519.2  
4808 9.9 184759.0 -0548.3  
4809 10. 184804.9 -0540.3  
4810 9.6 184808.8 -0542.1

4811 8.1 184810.3 -0554.8  
4812 9.7 184834.7 -0552.3  
4813 9.0 184840.6 -0515.3  
4814 9.4 184849.6 -0556.1  
4815 9.2 184857.4 -0521.7  
4816 8.3 184904.7 -0551.0  
4817 9.5 184909.0 -0516.0  
4818 8.9 184928.5 -0504.6  
4819 9.4 184928.8 -0542.5  
4820 9.8 184951.6 -0540.3



-05 4821 18h49m

4821 9.7 184955.6 -0527.5  
4822 9.1 185018.8 -0509.9  
4823 9.4 185031.0 -0540.7  
4824 9.8 185035.7 -0538.1  
4825 9.5 185055.9 -0502.2  
4826 7.3 185102.9 -0549.8  
4827 9.4 185104.3 -0522.5  
4828 9.7 185109.9 -0559.4  
4829 9.1 185113.7 -0545.9  
4830 8.4 185144.4 -0538.6

4831 9.1 185210.2 -0535.2  
4832 10. 185229.5 -0552.9  
4833 9.3 185234.6 -0554.9  
4834 9.8 185241.2 -0547.5  
4835 8.5 185241.8 -0533.9  
4836 8.3 185319.0 -0543.1  
4837 9.2 185329.2 -0540.6  
4838 9.4 185338.1 -0543.5  
4839 9.1 185346.8 -0510.0  
4840 4.7 185356.3 -0556.4

4841 8.1 185441.0 -0544.8  
4842 9.3 185448.5 -0504.8  
4843 9.5 185450.8 -0554.0  
4844 9.0 185457.2 -0500.0  
4845 8.1 185507.7 -0544.4  
4846 8.9 185507.9 -0555.1  
4847 9.8 185527.1 -0557.0  
4848 7.0 185533.5 -0545.8  
4849 9.7 185536.8 -0533.2  
4850 9.3 185537.5 -0528.3

4851 9.5 185537.7 -0522.8  
4852 8.9 185552.0 -0521.9  
4853 9.5 185553.3 -0537.6  
4854 8.8 185616.8 -0539.1  
4855 9.4 185619.2 -0504.0  
4856 9.4 185623.8 -0538.5  
4857 9.1 185628.4 -0527.9  
4858 7.0 185639.6 -0553.5  
4859 9.7 185644.1 -0557.4  
4860 9.5 185705.6 -0522.4

4861 9.3 185708.8 -0526.9  
4862 9.5 185724.7 -0508.8  
4863 9.6 185726.3 -0531.1  
4864 9.5 185732.2 -0533.1  
4865 9.5 185734.2 -0541.5  
4866 9.4 185738.4 -0527.1  
4867 9.7 185743.5 -0514.0  
4868 9.5 185746.8 -0544.5  
4869 9.7 185755.6 -0525.9  
4870 9.5 185802.2 -0535.7

4871 9.5 185807.3 -0546.5  
4872 8.8 185810.4 -0518.3  
4873 9.5 185812.0 -0545.6  
4874 9.0 185830.3 -0533.3  
4875 8.5 185833.7 -0527.4  
4876 3.0 185834.3 -0505.5  
4877 7.8 185932.3 -0506.9  
4878 9.2 185933.4 -0528.6  
4879 9.1 185942.0 -0508.8  
4880 9.8 185943.6 -0522.0

4881 8.5 185949.6 -0527.6  
4882 8.3 185957.3 -0510.8  
4883 9.9 190028.3 -0548.4  
4884 7.8 190031.4 -0533.1  
4885 9.5 190054.0 -0530.8  
4886 9.3 190054.1 -0512.0  
4887 9.3 190055.7 -0525.3  
4888 8.5 190128.7 -0521.6  
4889 9.3 190130.9 -0503.8  
4890 8.9 190131.2 -0555.1

4891 9.5 190142.6 -0516.7  
4892 9.0 190153.3 -0508.5  
4893 9.2 190157.2 -0525.0  
4894 9.5 190204.5 -0502.5  
4895 9.3 190226.4 -0544.6  
4896 9.5 190253.3 -0513.9  
4897 9.4 190257.1 -0556.8  
4898 9.5 190302.8 -0537.8  
4899 9.7 190329.9 -0530.5  
4900 9.5 190337.8 -0526.9

4901 9.8 190437.9 -0509.4  
4902 9.0 190438.2 -0554.0  
4903 7.5 190444.1 -0538.7  
4904 9.8 190454.3 -0508.0  
4905 9.0 190504.5 -0505.4  
4906 8.5 190512.9 -0518.7  
4907 9.4 190524.6 -0516.3  
4908 9.1 190539.4 -0537.9  
4909 9.1 190545.3 -0508.6  
4910 9.5 190549.8 -0554.1

4911 9.5 190602.5 -0502.7  
4912 9.1 190616.7 -0505.4  
4913 9.5 190617.2 -0554.9  
4914 9.5 190624.7 -0550.5  
4915 7.8 190636.2 -0556.0  
4916 9.5 190735.8 -0517.4  
4917 9.0 190801.1 -0510.5  
4918 9.0 190806.4 -0534.1  
4919 9.1 190808.2 -0543.8  
4920 9.1 190810.3 -0526.3

4921 9.0 190811.7 -0553.5  
4922 9.0 190831.6 -0559.5  
4923 9.5 190833.5 -0502.2  
4924 9.3 190916.9 -0537.4  
4925 9.8 190945.8 -0531.5  
4926 9.7 191023.2 -0540.4  
4927 7.4 191023.7 -0540.7  
4928 9.0 191045.4 -0541.6  
4929 9.5 191125.9 -0518.6  
4930 9.3 191128.0 -0529.5

4931 9.3 191136.4 -0522.6  
4932 9.8 191137.3 -0520.5  
4933 8.5 191140.2 -0552.2  
4934 8.3 191152.8 -0507.7  
4935 9.3 191211.3 -0505.8  
4936 5.0 191249.1 -0540.8  
4937 9.2 191251.8 -0551.7  
4938 8.3 191257.1 -0549.9  
4939 9.0 191312.5 -0541.8  
4940 8.9 191317.9 -0533.7

4941 8.7 191339.4 -0552.0  
4942 8.2 191404.8 -0505.1  
4943 9.0 191411.8 -0522.0  
4944 9.1 191419.9 -0537.6  
4945 7.5 191422.3 -0500.1  
4946 9.4 191423.6 -0500.1  
4947 9.7 191442.7 -0502.2  
4948 9.5 191501.9 -0529.9  
4949 9.5 191519.3 -0500.6  
4950 10. 191538.2 -0539.1

4951 9.4 191538.8 -0527.3  
4952 9.1 191544.7 -0555.8  
4953 9.5 191558.4 -0546.8  
4954 9.0 191559.8 -0521.0  
4955 9.4 191617.1 -0544.2  
4956 7.4 191621.1 -0546.7  
4957 8.8 191626.3 -0535.2  
4958 8.8 191626.8 -0506.5  
4959 9.0 191640.5 -0542.3  
4960 9.4 191650.3 -0535.5

4961 7.6 191701.8 -0541.7  
4962 9.8 191716.3 -0519.4  
4963 10. 191717.1 -0547.2  
4964 6.8 191719.4 -0510.0  
4965 9.6 191726.9 -0513.0  
4966 9.3 191735.2 -0519.9  
4967 9.6 191743.5 -0545.6  
4968 9.5 191754.8 -0530.0  
4969 9.8 191754.9 -0548.5  
4970 9.4 191810.3 -0530.9

4971 9.1 191826.4 -0513.2  
4972 9.5 191832.9 -0536.7  
4973 9.2 191839.7 -0547.8  
4974 9.5 191857.5 -0553.0  
4975 9.5 191946.8 -0531.6  
4976 9.5 191951.3 -0529.8  
4977 9.4 192003.6 -0558.0  
4978 9.5 192006.5 -0501.3  
4979 6.8 192010.7 -0506.2  
4980 9.3 192020.4 -0506.1

4981 8.7 192025.3 -0545.6  
4982 9.3 192042.1 -0548.7  
4983 8.8 192103.4 -0538.1  
4984 9.7 192140.3 -0543.5  
4985 8.5 192217.4 -0513.3  
4986 9.4 192250.9 -0532.4  
4987 9.4 192258.9 -0550.5  
4988 9.5 192300.3 -0512.4  
4989 8.4 192329.5 -0558.3  
4990 9.3 192333.8 -0530.5

4991 9.3 192346.8 -0507.7  
4992 8.2 192351.9 -0525.6  
4993 9.7 192355.7 -0549.8  
4994 9.4 192405.1 -0521.6  
4995 8.9 192430.8 -0529.2  
4996 9.0 192434.6 -0548.6  
4997 9.1 192446.4 -0513.0  
4998 9.8 192450.2 -0540.3  
4999 9.0 192451.9 -0510.6  
5000 9.8 192502.7 -0538.3

5001 9.6 192504.9 -0502.6  
5002 9.6 192508.6 -0509.2  
5003 8.0 192542.0 -0501.9  
5004 9.3 192551.4 -0534.7  
5005 9.1 192556.6 -0549.0  
5006 7.6 192602.4 -0502.8  
5007 9.3 192635.7 -0502.4  
5008 9.3 192648.3 -0527.2  
5009 9.5 192715.0 -0541.4  
5010 9.2 192732.6 -0540.9

5011 9.5 192736.9 -0538.0  
5012 9.4 192742.9 -0539.0  
5013 9.5 192744.4 -0502.8  
5014 9.5 192757.4 -0530.2  
5015 9.4 192806.6 -0541.0  
5016 8.8 192810.0 -0553.0  
5017 9.0 192812.8 -0503.8  
5018 9.0 192814.4 -0549.2  
5019 9.0 192833.1 -0548.0  
5020 8.3 192839.5 -0507.1

5021 7.8 192853.3 -0505.6  
5022 8.0 192858.1 -0554.8  
5023 7.5 192935.4 -0527.7  
5024 9.2 192936.1 -0555.5  
5025 9.5 192956.0 -0508.2  
5026 7.3 193000.9 -0523.0  
5027 9.0 193004.4 -0524.8  
5028 9.2 193005.5 -0531.0  
5029 8.8 193012.1 -0554.0  
5030 9.0 193023.9 -0525.4

5031 8.9 193118.4 -0544.8  
5032 9.8 193126.9 -0551.2  
5033 9.3 193210.5 -0519.0  
5034 9.3 193211.6 -0552.4  
5035 9.5 193229.0 -0527.4  
5036 6.8 193238.1 -0546.6  
5037 9.5 193238.4 -0515.2  
5038 9.5 193311.5 -0530.2  
5039 9.2 193320.7 -0542.0  
5040 9.3 193323.4 -0539.3

5041 9.5 193334.3 -0515.3  
5042 9.5 193335.6 -0554.8  
5043 9.2 193451.1 -0558.5  
5044 9.5 193458.4 -0536.9  
5045 9.3 193505.5 -0538.9  
5046 9.5 193506.4 -0525.6  
5047 9.0 193534.0 -0534.8  
5048 9.1 193610.7 -0533.9  
5049 9.0 193628.5 -0507.8  
5050 9.5 193646.9 -0525.7

5051 9.6 193658.1 -0533.8  
5052 9.2 193731.5 -0543.1  
5053 9.2 193756.8 -0546.1  
5054 9.5 193804.4 -0510.3  
5055 9.1 193810.3 -0501.4  
5056 9.0 193839.8 -0541.6  
5057 9.5 193922.1 -0521.6  
5058 9.5 193949.4 -0559.8  
5059 9.6 194000.9 -0539.4  
5060 7.8 194005.0 -0535.1

5061 10. 194016.2 -0512.7  
5062 9.5 194030.6 -0546.3  
5063 9.5 194046.7 -0515.1  
5064 9.7 194046.8 -0507.0  
5065 9.5 194053.6 -0505.1  
5066 9.5 194115.3 -0557.7  
5067 9.5 194123.0 -0514.1  
5068 9.3 194139.3 -0552.0  
5069 8.9 194144.8 -0543.1  
5070 9.1 194145.3 -0552.0

5071 9.2 194206.6 -0530.6  
5072 10. 194226.2 -0557.4  
5073 9.5 194249.4 -0512.9  
5074 9.6 194254.1 -0511.9  
5075 6.5 194308.2 -0503.2  
5076 9.1 194308.8 -0502.3  
5077 9.2 194314.8 -0533.6  
5078 9.0 194323.3 -0501.3  
5079 9.5 194324.5 -0547.8  
5080 9.0 194324.6 -0546.0

5081 9.3 194340.5 -0536.5  
5082 9.0 194341.7 -0549.9  
5083 9.1 194345.1 -0543.8  
5084 10. 194400.4 -0518.9  
5085 9.8 194412.3 -0532.7  
5086 9.8 194416.9 -0517.1  
5087 9.5 194430.9 -0515.5  
5088 9.9 194438.6 -0550.2  
5089 9.3 194439.6 -0523.8  
5090 9.3 194454.9 -0519.4

-05 5180 20h03m

5091 8.0 194456.5 -0555.0  
5092 9.6 194502.0 -0547.8  
5093 8.6 194510.1 -0500.1  
5094 9.6 194522.9 -0512.7  
5095 9.5 194529.2 -0524.3  
5096 7.0 194531.0 -0554.3  
5097 9.4 194547.0 -0504.1  
5098 10. 194611.9 -0549.4  
5099 8.0 194634.1 -0525.2  
5100 9.0 194636.3 -0535.2

5101 9.5 194639.5 -0508.6  
5102 9.3 194649.1 -0554.1  
5103 9.6 194659.2 -0540.3  
5104 9.5 194713.7 -0559.6  
5105 9.7 194727.9 -0548.1  
5106 9.9 194731.5 -0535.3  
5107 10. 194733.0 -0552.4  
5108 9.6 194750.2 -0552.0  
5109 9.9 194751.3 -0559.7  
5110 9.9 194754.1 -0531.6

5111 9.4 194813.0 -0502.2  
5112 9.8 194816.9 -0541.8  
5113 9.8 194823.5 -0530.0  
5114 8.5 194853.7 -0500.3  
5115 9.8 194900.4 -0552.4  
5116 9.4 194908.9 -0528.6  
5117 9.0 194920.0 -0539.7  
5118 9.4 194922.1 -0553.5  
5119 9.8 194923.6 -0501.1  
5120 8.2 194938.0 -0504.2

5121 9.1 194944.9 -0540.3  
5122 10. 194949.4 -0555.9  
5123 9.8 195002.8 -0528.9  
5124 8.5 195015.0 -0534.2  
5125 9.3 195038.1 -0532.7  
5126 9.8 195054.3 -0517.2  
5127 9.6 195116.6 -0550.3  
5128 9.3 195129.2 -0550.3  
5129 9.5 195152.7 -0501.0  
5130 9.8 195157.5 -0557.3

5131 9.5 195219.6 -0547.2  
5132 9.4 195222.6 -0549.4  
5133 9.5 195239.7 -0558.7  
5134 9.6 195251.2 -0539.6  
5135 9.2 195325.6 -0549.2  
5136 9.4 195342.4 -0514.3  
5137 8.6 195429.5 -0513.4  
5138 6.3 195429.7 -0523.4  
5139 9.2 195430.8 -0542.5  
5140 8.8 195501.9 -0554.6

5141 9.1 195507.8 -0500.1  
5142 9.5 195520.8 -0534.6  
5143 9.8 195520.9 -0555.7  
5144 8.2 195534.0 -0501.9  
5145 9.6 195600.9 -0523.1  
5146 9.5 195623.9 -0521.7  
5147 9.8 195634.4 -0521.7  
5148 9.6 195700.8 -0532.2  
5149 9.0 195705.8 -0501.8  
5150 9.7 195710.1 -0527.2

5151 9.5 195712.3 -0528.4  
5152 9.6 195713.4 -0541.1  
5153 9.4 195756.4 -0522.4  
5154 9.3 195807.4 -0541.5  
5155 9.5 195815.1 -0559.4  
5156 9.0 195822.0 -0550.5  
5157 9.5 195844.2 -0552.6  
5158 9.8 195845.1 -0537.9  
5159 9.8 195848.3 -0532.7  
5160 9.5 195849.4 -0525.5

5161 10. 195900.8 -0526.1  
5162 9.6 195903.2 -0539.1  
5163 9.5 195910.3 -0549.6  
5164 9.5 195929.0 -0507.9  
5165 9.6 195930.9 -0539.0  
5166 9.5 195938.3 -0551.2  
5167 10. 200000.3 -0532.0  
5168 9.5 200008.0 -0510.8  
5169 8.5 200052.8 -0531.5  
5170 9.7 200100.3 -0548.4

5171 9.4 200155.9 -0522.4  
5172 9.8 200212.3 -0535.3  
5173 9.5 200222.0 -0516.1  
5174 10. 200231.1 -0548.8  
5175 9.8 200236.5 -0500.3  
5176 9.8 200242.8 -0502.2  
5177 9.3 200250.2 -0548.8  
5178 9.5 200302.2 -0507.8  
5179 9.6 200306.4 -0531.9  
5180 9.5 200312.1 -0510.2



-05 5181 20h03m

5181 8.5 200359.6 -0500.8  
5182 9.5 200425.0 -0520.6  
5183 9.0 200445.7 -0553.7  
5184 9.7 200506.5 -0504.4  
5185 9.5 200508.2 -0558.3  
5186 9.5 200519.6 -0553.9  
5187 10. 200523.8 -0554.6  
5188 9.6 200527.1 -0558.5  
5189 8.9 200559.5 -0516.7  
5190 8.5 200625.5 -0516.7

5191 9.5 200628.9 -0526.7  
5192 9.8 200644.0 -0500.1  
5193 9.5 200710.9 -0538.4  
5194 8.0 200719.2 -0500.7  
5195 9.6 200724.3 -0546.6  
5196 7.0 200741.1 -0558.2  
5197 9.4 200752.0 -0542.3  
5198 9.5 200810.5 -0523.4  
5199 9.4 200817.2 -0504.3  
5200 9.4 200844.0 -0520.9

5201 9.7 200844.1 -0541.2  
5202 9.1 200911.4 -0554.5  
5203 9.5 200911.5 -0543.2  
5204 9.3 200913.9 -0509.1  
5205 9.3 200926.2 -0514.2  
5206 9.0 200928.4 -0531.9  
5207 9.7 200958.0 -0526.7  
5208 10. 200959.2 -0511.8  
5209 9.6 201005.2 -0502.3  
5210 9.0 201015.1 -0519.1

5211 9.1 201015.8 -0507.4  
5212 9.2 201015.8 -0526.9  
5213 9.3 201025.9 -0538.7  
5214 9.5 201027.5 -0542.0  
5215 10. 201028.4 -0545.2  
5216 6.8 201030.7 -0510.3  
5217 9.4 201045.0 -0518.5  
5218 9.1 201049.6 -0519.5  
5219 9.8 201100.3 -0546.1  
5220 9.2 201111.9 -0537.0

5221 9.2 201120.0 -0557.3  
5222 9.4 201120.9 -0547.6  
5223 9.9 201128.3 -0515.1  
5224 9.1 201132.3 -0516.0  
5225 9.3 201151.3 -0504.8  
5226 9.1 201155.3 -0548.1  
5227 9.9 201157.4 -0512.5  
5228 9.3 201220.9 -0554.8  
5229 9.8 201222.2 -0543.9  
5230 9.7 201253.9 -0501.8

5231 9.5 201255.1 -0526.6  
5232 9.0 201301.6 -0536.5  
5233 8.7 201302.9 -0559.2  
5234 9.2 201311.8 -0556.9  
5235 9.3 201314.9 -0548.1  
5236 9.8 201327.4 -0504.0  
5237 9.8 201335.7 -0529.7  
5238 9.9 201355.0 -0509.2  
5239 8.0 201400.1 -0515.4  
5240 10. 201404.7 -0553.8

5241 9.7 201426.5 -0556.3  
5242 9.0 201455.4 -0543.9  
5243 9.8 201455.8 -0518.1  
5244 9.4 201457.7 -0524.6  
5245 8.0 201500.1 -0532.3  
5246 9.2 201510.3 -0505.2  
5247 9.5 201511.9 -0555.9  
5248 9.5 201516.9 -0538.6  
5249 9.9 201542.8 -0509.5  
5250 9.5 201545.3 -0513.2

5251 9.4 201547.6 -0532.2  
5252 9.3 201553.8 -0513.7  
5253 6.8 201556.1 -0543.7  
5254 9.4 201612.7 -0518.8  
5255 9.4 201613.1 -0532.1  
5256 9.5 201622.0 -0539.4  
5257 9.5 201625.8 -0546.7  
5258 9.8 201626.6 -0520.5  
5259 9.2 201636.2 -0533.0  
5260 9.7 201643.6 -0550.6

5261 9.0 201657.7 -0522.0  
5262 8.2 201701.5 -0503.1  
5263 9.8 201744.7 -0538.8  
5264 9.2 201746.6 -0536.3  
5265 10. 201806.4 -0543.1  
5266 9.5 201814.9 -0511.8  
5267 9.5 201817.8 -0558.1  
5268 10. 201824.9 -0541.0  
5269 9.1 201907.7 -0526.4  
5270 9.5 201914.1 -0550.5

5271 9.3 201927.3 -0518.3  
5272 9.2 201945.6 -0512.7  
5273 9.8 201952.5 -0545.0  
5274 9.9 201954.4 -0555.3  
5275 8.0 202018.8 -0533.3  
5276 9.0 202024.7 -0513.4  
5277 9.1 202032.1 -0558.3  
5278 8.7 202035.4 -0521.4  
5279 9.5 202101.7 -0536.6  
5280 9.4 202105.8 -0529.2

5281 9.8 202107.1 -0517.1  
5282 9.5 202114.7 -0527.2  
5283 9.6 202116.2 -0507.1  
5284 9.3 202151.3 -0541.8  
5285 9.7 202208.7 -0538.6  
5286 9.9 202227.9 -0558.5  
5287 9.4 202234.7 -0541.4  
5288 9.0 202239.9 -0514.3  
5289 9.8 202242.0 -0504.1  
5290 9.7 202248.5 -0548.4

5291 8.2 202253.9 -0552.3  
5292 10. 202311.6 -0519.0  
5293 9.3 202323.5 -0521.5  
5294 9.0 202323.7 -0510.8  
5295 11. 202333.9 -0556.9  
5296 3.5 202401.7 -0544.2  
5297 3.4 202406.4 -0510.1  
5298 9.9 202418.1 -0544.9  
5299 6.8 202424.4 -0543.8  
5300 5.5 202453.4 -0510.7

5301 9.7 202454.0 -0526.3  
5302 8.0 202513.5 -0539.9  
5303 9.2 202516.8 -0548.8  
5304 9.7 202553.2 -0529.3  
5305 8.8 202556.3 -0550.7  
5306 9.9 202620.2 -0557.7  
5307 9.8 202620.9 -0508.0  
5308 9.9 202623.4 -0559.2  
5309 9.2 202627.4 -0513.0  
5310 9.5 202634.9 -0514.9

5311 8.4 202728.7 -0505.5  
5312 9.6 202737.1 -0541.2  
5313 10. 202743.2 -0540.9  
5314 9.0 202748.0 -0546.8  
5315 7.8 202800.9 -0513.0  
5316 9.5 202821.8 -0527.2  
5317 9.5 202823.3 -0502.4  
5318 9.5 202828.0 -0506.0  
5319 10. 202836.9 -0516.3  
5320 9.5 202839.7 -0535.1

5321 8.6 202842.8 -0552.4  
5322 9.5 202911.6 -0500.2  
5323 9.8 202913.5 -0554.6  
5324 9.3 203001.0 -0513.2  
5325 9.2 203009.3 -0527.0  
5326 9.2 203005.8 -0531.1  
5327 9.3 203015.4 -0523.6  
5328 9.0 203016.1 -0551.5  
5329 10. 203028.4 -0542.6  
5330 7.7 203043.0 -0501.2

5331 9.5 203051.2 -0538.0  
5332 10. 203105.3 -0531.3  
5333 9.6 203106.0 -0533.8  
5334 8.5 203117.9 -0508.6  
5335 6.5 203125.3 -0526.5  
5336 9.9 203147.7 -0505.3  
5337 8.5 203154.9 -0521.8  
5338 9.7 203205.6 -0544.6  
5339 9.4 203218.9 -0549.3  
5340 9.8 203241.0 -0538.3

5341 9.6 203314.5 -0540.1  
5342 9.5 203335.6 -0536.3  
5343 9.5 203336.3 -0530.3  
5344 9.0 203339.0 -0542.9  
5345 9.3 203342.5 -0503.2  
5346 9.5 203400.5 -0514.5  
5347 9.0 203409.5 -0500.5  
5348 9.0 203415.4 -0529.5  
5349 7.8 203449.9 -0548.6  
5350 9.5 203456.1 -0512.8

5351 9.3 203526.7 -0530.2  
5352 10. 203532.8 -0515.4  
5353 9.7 203539.0 -0522.7  
5354 9.0 203539.2 -0540.9  
5355 8.8 203607.5 -0514.9  
5356 9.5 203619.6 -0558.2  
5357 9.7 203633.5 -0507.2  
5358 8.9 203638.4 -0518.1  
5359 9.0 203646.4 -0521.6  
5360 9.3 203659.9 -0500.4

5361 9.7 203701.0 -0542.7  
5362 9.4 203714.4 -0523.5  
5363 9.5 203716.3 -0510.0  
5364 8.7 203800.0 -0510.0  
5365 9.6 203827.5 -0502.4  
5366 10. 203834.4 -0530.7  
5367 9.5 203851.0 -0547.9  
5368 9.5 203851.4 -0524.3  
5369 9.4 203857.7 -0513.3  
5370 9.7 203857.7 -0550.2

5371 9.1 203909.4 -0527.3  
5372 8.4 203935.2 -0536.7  
5373 9.4 203935.3 -0516.1  
5374 9.7 203940.0 -0500.0  
5375 9.5 203954.9 -0525.6  
5376 9.2 203958.2 -0538.6  
5377 9.5 204001.7 -0540.0  
5378 4.2 204005.4 -0533.4  
5379 9.2 204006.1 -0525.6  
5380 9.5 204035.1 -0558.2

5381 9.8 204036.3 -0536.3  
5382 7.5 204037.2 -0509.9  
5383 8.8 204057.0 -0518.4  
5384 9.4 204112.1 -0559.4  
5385 9.0 204138.1 -0507.7  
5386 9.5 204143.0 -0547.0  
5387 9.5 204145.2 -0523.1  
5388 9.4 204147.8 -0545.9  
5389 10. 204157.5 -0537.2  
5390 30.0 204217.3 -0541.1

5391 10. 204235.2 -0556.5  
5392 10. 204237.1 -0559.0  
5393 8.3 204241.4 -0539.1  
5394 9.4 204247.2 -0547.7  
5395 9.5 204300.0 -0546.2  
5396 8.0 204304.0 -0519.7  
5397 9.7 204329.7 -0546.0  
5398 9.7 204341.6 -0535.8  
5399 9.2 204346.7 -0544.0  
5400 9.4 204403.4 -0529.6

5401 8.5 204410.0 -0520.0  
5402 8.5 204440.1 -0514.5  
5403 9.4 204444.7 -0507.1  
5404 9.4 204450.2 -0510.9  
5405 9.9 204522.2 -0537.0  
5406 9.8 204526.0 -0522.7  
5407 8.7 204541.6 -0542.1  
5408 9.3 204600.0 -0531.0  
5409 9.0 204613.1 -0508.4  
5410 6.7 204626.6 -0505.2

5411 9.0 204710.7 -0557.3  
5412 9.6 204737.5 -0549.7  
5413 9.8 204752.7 -0504.0  
5414 9.4 204808.3 -0519.8  
5415 9.6 204810.2 -0551.4  
5416 9.7 204832.9 -0543.1  
5417 8.9 204842.1 -0527.7  
5418 9.5 204852.6 -0509.2  
5419 10. 204854.9 -0513.7  
5420 9.8 204858.7 -0538.3

5421 9.2 204902.2 -0510.7  
5422 9.5 204945.0 -0527.4  
5423 9.8 205006.6 -0555.1  
5424 9.8 205011.9 -0529.5  
5425 5.8 205012.5 -0543.1  
5426 9.4 205044.5 -0525.3  
5427 9.4 205125.6 -0510.4  
5428 9.3 205129.4 -0523.0  
5429 9.8 205137.3 -0524.0  
5430 9.5 205220.2 -0541.3

5431 9.2 205220.4 -0509.7  
5432 9.3 205227.0 -0539.1  
5433 6.0 205255.9 -0517.1  
5434 8.0 205301.3 -0555.3  
5435 9.4 205306.5 -0538.5  
5436 9.5 205307.5 -0557.1  
5437 9.6 205339.7 -0510.6  
5438 9.5 205402.1 -0521.4  
5439 9.5 205403.8 -0528.1  
5440 8.0 205414.2 -0513.8

5441 9.8 205424.0 -0541.7  
5442 9.6 205437.6 -0509.6  
5443 10. 205444.5 -0527.0  
5444 9.7 205457.8 -0553.3  
5445 9.6 205541.0 -0530.3  
5446 9.1 205545.2 -0512.4  
5447 8.0 205545.5 -0556.5  
5448 9.8 205610.7 -0556.2  
5449 9.4 205621.6 -0521.1  
5450 9.5 205647.7 -0514.9

5451 9.1 205701.7 -0503.6  
5452 8.3 205708.1 -0523.4  
5453 9.7 205711.0 -0504.1  
5454 9.5 205713.4 -0542.1  
5455 9.8 205721.3 -0558.1  
5456 9.2 205721.6 -0522.1  
5457 9.1 205728.0 -0544.9  
5458 9.0 205730.4 -0541.1  
5459 9.8 205736.9 -0513.9  
5460 9.9 205743.8 -0522.1

5461 9.4 205814.9 -0557.2  
5462 10. 205840.3 -0529.5  
5463 8.9 205856.0 -0547.0  
5464 9.2 205900.7 -0540.7  
5465 9.4 205905.3 -0506.0  
5466 9.2 205917.8 -0509.8  
5467 9.8 205928.9 -0528.0  
5468 9.4 205928.9 -0535.2  
5469 9.8 205931.5 -0511.4  
5470 9.7 205955.7 -0541.8

5471 9.5 205956.5 -0550.3  
5472 8.7 210005.2 -0512.7  
5473 8.2 210006.2 -0501.8  
5474 8.7 210022.7 -0504.9  
5475 9.5 210026.4 -0552.0  
5476 9.4 210035.1 -0518.0  
5477 9.0 210040.7 -0548.9  
5478 9.4 210052.7 -0514.4  
5479 9.4 210100.4 -0501.8  
5480 9.1 210110.0 -0500.7

5481 10. 210114.6 -0545.8  
5482 9.4 210122.5 -0539.9  
5483 8.5 210140.1 -0532.2  
5484 9.4 210157.3 -0503.1  
5485 9.3 210159.3 -0540.9  
5486 9.6 210201.0 -0541.8  
5487 9.9 210226.4 -0556.1  
5488 9.3 210301.6 -0558.8  
5489 9.0 210337.2 -0522.6  
5490 9.9 210401.4 -0508.6

5491 9.0 210409.6 -0539.3  
5492 9.6 210409.9 -0513.1  
5493 9.5 210419.7 -0521.1  
5494 9.6 210440.8 -0505.2  
5495 8.3 210442.4 -0509.1  
5496 9.7 210506.6 -0516.9  
5497 9.6 210517.2 -0518.7  
5498 9.2 210542.7 -0548.7  
5499 10. 210546.3 -0532.1  
5500 9.9 210607.5 -0516.7

5501 9.8 210620.3 -0501.4  
5502 9.6 210746.9 -0542.4  
5503 9.5 210747.6 -0515.5  
5504 9.4 210812.4 -0531.9  
5505 10. 210815.9 -0558.6  
5506 9.6 210938.9 -0533.8  
5507 8.0 210948.0 -0558.2  
5508 9.9 211015.1 -0521.4  
5509 9.4 211023.3 -0501.8  
5510 9.8 211024.5 -0552.4

5511 9.5 211028.8 -0543.4  
5512 6.0 211034.0 -0507.5  
5513 9.7 211041.1 -0540.8  
5514 9.6 211044.5 -0557.4  
5515 9.5 211048.0 -0537.5  
5516 9.3 211107.9 -0510.7  
5517 10. 211120.5 -0541.5  
5518 9.9 211210.7 -0504.0  
5519 9.5 211220.9 -0529.2  
5520 9.0 211226.3 -0542.8

5521 9.8 211233.4 -0554.7  
5522 9.9 211237.0 -0508.8  
5523 9.4 211303.5 -0533.5  
5524 6.2 211327.5 -0510.3  
5525 10. 211330.0 -0549.4  
5526 9.5 211349.4 -0523.7  
5527 9.5 211354.7 -0540.5  
5528 8.9 211358.9 -0556.3  
5529 8.0 211403.0 -0505.9  
5530 9.7 211409.4 -0534.4

5531 9.5 211416.2 -0540.9  
5532 9.0 211420.7 -0501.1  
5533 8.9 211428.7 -0503.2  
5534 9.5 211436.4 -0504.8  
5535 9.2 211503.7 -0544.6  
5536 9.0 211543.1 -0535.8  
5537 10. 211545.0 -0544.9  
5538 9.8 211552.5 -0524.5  
5539 10. 211558.0 -0556.4  
5540 9.4 211619.5 -0533.0

-05 5540 21h16m



-05 5541 21h16m

5541 9.6 211643.2 -0549.9  
5542 9.4 211654.1 -0537.2  
5543 9.7 211745.0 -0553.4  
5544 9.2 211751.0 -0523.4  
5545 10. 211810.0 -0556.2  
5546 9.8 211811.1 -0512.4  
5547 9.4 211841.0 -0559.5  
5548 9.7 211856.2 -0528.9  
5549 9.2 211858.0 -0542.2  
5550 9.7 211911.6 -0536.0

5551 9.3 211921.1 -0551.4  
5552 9.8 211929.6 -0507.2  
5553 9.5 211948.5 -0532.5  
5554 9.8 211950.4 -0534.5  
5555 9.0 212032.1 -0514.7  
5556 9.8 212059.1 -0553.4  
5557 10. 212120.6 -0528.5  
5558 10. 212131.0 -0530.5  
5559 9.1 212135.6 -0556.2  
5560 9.2 212151.6 -0535.9

5561 9.6 212201.6 -0505.4  
5562 9.6 212202.9 -0519.2  
5563 9.6 212203.7 -0550.1  
5564 8.0 212239.1 -0508.3  
5565 10. 212253.5 -0545.3  
5566 9.7 212328.1 -0540.4  
5567 9.1 212343.6 -0517.2  
5568 8.6 212350.3 -0509.0  
5569 8.6 212356.5 -0505.4  
5570 9.6 212412.6 -0515.0

5571 9.4 212419.1 -0513.0  
5572 9.7 212432.1 -0525.6  
5573 9.6 212432.6 -0559.1  
5574 9.7 212452.5 -0508.9  
5575 10. 212457.6 -0551.0  
5576 9.5 212459.2 -0549.5  
5577 9.7 212501.8 -0523.7  
5578 10. 212526.8 -0509.4  
5579 9.0 212535.1 -0509.4  
5580 9.3 212545.2 -0541.6

5581 9.0 212601.1 -0516.1  
5582 8.7 212606.8 -0549.5  
5583 9.7 212608.2 -0544.1  
5584 7.3 212631.9 -0500.3  
5585 9.3 212643.1 -0535.8  
5586 8.9 212719.2 -0534.3  
5587 8.7 212745.2 -0519.8  
5588 9.6 212756.7 -0506.2  
5589 9.1 212813.2 -0553.9  
5590 9.3 212820.8 -0505.7

5591 9.5 212825.1 -0531.0  
5592 7.7 212856.1 -0541.8  
5593 8.5 212920.2 -0526.0  
5594 9.4 212925.2 -0559.5  
5595 9.5 212929.2 -0505.5  
5596 9.6 213005.7 -0507.3  
5597 8.5 213013.5 -0553.1  
5598 10. 213017.7 -0514.4  
5599 9.8 213053.5 -0504.4  
5600 9.4 213054.4 -0525.6

5601 9.7 213206.4 -0519.6  
5602 3.8 213208.6 -0538.7  
5603 9.5 213211.8 -0550.7  
5604 9.5 213220.8 -0552.7  
5605 9.8 213225.4 -0534.4  
5606 9.5 213226.0 -0555.3  
5607 9.4 213253.4 -0551.2  
5608 8.5 213254.5 -0506.2  
5609 9.4 213305.6 -0538.6  
5610 9.3 213309.7 -0518.5

5611 9.0 213323.1 -0523.0  
5612 9.5 213330.9 -0548.3  
5613 8.5 213334.7 -0526.1  
5614 9.3 213337.7 -0536.4  
5615 9.4 213349.7 -0534.3  
5616 9.6 213402.1 -0523.0  
5617 9.5 213414.8 -0527.0  
5618 9.6 213425.1 -0511.0  
5619 8.5 213444.1 -0500.2  
5620 9.2 213458.4 -0501.2

5621 9.4 213515.2 -0544.6  
5622 9.6 213518.2 -0550.4  
5623 9.4 213522.0 -0544.8  
5624 9.3 213553.4 -0502.8  
5625 9.7 213614.2 -0513.9  
5626 9.1 213635.7 -0555.5  
5627 9.7 213636.4 -0501.4  
5628 6.5 213648.9 -0523.7  
5629 9.7 213649.2 -0548.5  
5630 8.8 213707.5 -0553.1

5631 9.3 213715.2 -0500.1  
5632 8.2 213800.3 -0505.9  
5633 9.4 213826.7 -0529.4  
5634 9.9 213845.9 -0546.8  
5635 9.9 213849.8 -0547.0  
5636 9.8 213901.9 -0553.0  
5637 9.0 213933.0 -0550.7  
5638 9.2 213938.8 -0554.3  
5639 10. 213947.3 -0503.6  
5640 7.0 213949.6 -0516.4

5641 9.6 214013.8 -0526.5  
5642 9.9 214053.3 -0514.6  
5643 9.6 214100.1 -0502.8  
5644 9.5 214123.1 -0516.5  
5645 9.8 214137.3 -0531.7  
5646 9.5 214151.8 -0556.5  
5647 9.3 214212.8 -0521.2  
5648 8.7 214305.0 -0519.4  
5649 9.4 214309.7 -0547.8  
5650 9.5 214322.9 -0502.0

5651 10. 214342.8 -0538.0  
5652 9.8 214421.7 -0549.6  
5653 9.0 214516.8 -0513.8  
5654 10. 214518.1 -0519.1  
5655 10. 214531.3 -0532.1  
5656 10. 214531.4 -0539.3  
5657 9.5 214534.3 -0551.5  
5658 9.4 214535.2 -0549.7  
5659 9.3 214622.3 -0530.2  
5660 10. 214633.6 -0534.4

5661 9.5 214638.3 -0511.0  
5662 9.3 214705.3 -0527.7  
5663 8.4 214710.8 -0557.0  
5664 9.9 214737.3 -0548.5  
5665 9.5 214752.4 -0504.0  
5666 8.0 214845.9 -0526.4  
5667 9.1 214847.9 -0515.7  
5668 9.8 214902.9 -0509.4  
5669 9.4 214924.0 -0505.6  
5670 9.0 214949.9 -0558.3

5671 9.9 215000.0 -0548.6  
5672 8.5 215024.4 -0552.2  
5673 9.6 215105.3 -0508.9  
5674 6.9 215121.0 -0503.3  
5675 9.0 215124.3 -0547.9  
5676 9.5 215138.4 -0522.4  
5677 8.7 215155.6 -0518.0  
5678 8.9 215301.6 -0527.4  
5679 9.2 215306.4 -0530.0  
5680 9.1 215314.3 -0510.8

5681 9.1 215325.6 -0511.8  
5682 9.0 215338.5 -0548.8  
5683 9.3 215338.9 -0558.8  
5684 9.3 215343.7 -0502.7  
5685 9.1 215401.9 -0550.4  
5686 9.0 215403.1 -0533.3  
5687 9.8 215413.9 -0512.5  
5688 9.5 215415.6 -0523.5  
5689 9.5 215509.8 -0507.7  
5690 9.2 215516.9 -0505.7

5691 9.6 215554.5 -0506.5  
5692 8.7 215620.0 -0542.1  
5693 9.7 215632.9 -0526.4  
5694 9.5 215639.4 -0529.0  
5695 9.5 215658.4 -0533.2  
5696 9.5 215658.9 -0521.8  
5697 8.0 215701.8 -0532.3  
5698 9.8 215714.0 -0539.4  
5699 9.5 215721.0 -0556.4  
5700 9.6 215730.4 -0508.4

5701 9.1 215743.7 -0504.9  
5702 10. 215744.7 -0534.8  
5703 9.5 215754.9 -0510.2  
5704 9.8 215800.4 -0530.3  
5705 9.5 215809.9 -0508.7  
5706 9.4 215842.4 -0548.1  
5707 9.1 215844.4 -0505.4  
5708 9.8 215904.5 -0527.5  
5709 9.2 215905.1 -0548.1  
5710 9.1 215954.2 -0531.4

5711 9.0 215958.0 -0559.9  
5712 9.8 220025.0 -0533.8  
5713 8.9 220052.5 -0510.3  
5714 9.2 220158.0 -0507.2  
5715 9.8 220158.7 -0521.5  
5716 9.5 220200.8 -0503.2  
5717 9.6 220217.3 -0548.0  
5718 9.1 220227.9 -0510.2  
5719 9.5 220235.9 -0508.6  
5720 8.2 220237.7 -0538.3

5721 8.6 220253.0 -0555.3  
5722 10. 220306.4 -0513.5  
5723 9.3 220332.1 -0553.2  
5724 9.9 220332.5 -0541.7  
5725 9.4 220412.0 -0540.2  
5726 9.1 220415.6 -0551.6  
5727 8.9 220420.5 -0538.0  
5728 9.4 220422.4 -0531.4  
5729 9.9 220430.6 -0523.1  
5730 9.4 220455.3 -0551.6

5731 9.5 220456.3 -0537.5  
5732 6.7 220510.5 -0526.0  
5733 9.5 220525.0 -0533.3  
5734 9.3 220536.8 -0503.5  
5735 9.0 220603.3 -0516.8  
5736 9.8 220603.4 -0551.3  
5737 9.6 220609.6 -0556.3  
5738 7.3 220617.8 -0510.1  
5739 8.6 220620.5 -0521.7  
5740 9.5 220627.0 -0517.2

5741 9.6 220648.6 -0517.1  
5742 9.5 220655.1 -0549.7  
5743 9.8 220731.5 -0537.9  
5744 9.3 220824.0 -0538.3  
5745 9.8 220846.9 -0510.4  
5746 9.5 220920.4 -0517.5  
5747 9.0 220942.9 -0512.9  
5748 9.3 221002.2 -0550.1  
5749 9.4 221010.7 -0558.9  
5750 9.8 221023.9 -0522.8

5751 9.5 221025.1 -0555.7  
5752 9.1 221043.2 -0548.7  
5753 8.9 221059.6 -0556.0  
5754 9.6 221104.7 -0557.0  
5755 9.8 221110.0 -0504.6  
5756 9.8 221138.7 -0540.2  
5757 9.1 221148.6 -0535.0  
5758 9.4 221150.0 -0543.3  
5759 9.0 221227.4 -0521.3  
5760 9.4 221236.0 -0553.2

5761 9.8 221237.6 -0548.8  
5762 8.9 221253.9 -0512.5  
5763 10. 221302.1 -0513.8  
5764 9.5 221312.6 -0525.5  
5765 9.5 221312.9 -0507.7  
5766 9.3 221324.9 -0516.2  
5767 9.3 221331.2 -0511.3  
5768 9.0 221332.7 -0551.4  
5769 9.8 221334.4 -0520.4  
5770 9.2 221407.2 -0542.0

5771 9.3 221428.0 -0510.0  
5772 9.8 221436.8 -0539.9  
5773 8.9 221454.7 -0509.7  
5774 8.9 221459.5 -0520.8  
5775 9.7 221549.5 -0532.6  
5776 9.3 221551.9 -0550.0  
5777 8.8 221555.0 -0513.2  
5778 9.4 221616.3 -0544.3  
5779 9.4 221629.0 -0523.6  
5780 5.7 221633.5 -0533.7

5781 9.5 221635.1 -0530.0  
5782 9.1 221641.2 -0535.7  
5783 9.7 221658.0 -0526.2  
5784 9.0 221707.9 -0557.8  
5785 9.5 221729.5 -0511.3  
5786 9.5 221735.8 -0536.9  
5787 9.5 221742.8 -0502.1  
5788 9.5 221749.4 -0524.2  
5789 9.4 221759.0 -0524.3  
5790 8.0 221833.1 -0554.6

5791 9.2 221844.7 -0554.8  
5792 9.3 221852.6 -0522.8  
5793 9.6 221854.5 -0509.6  
5794 9.2 221922.8 -0517.5  
5795 9.4 221928.1 -0526.1  
5796 8.6 222020.7 -0503.4  
5797 9.5 222044.9 -0527.3  
5798 9.4 222046.5 -0534.2  
5799 9.4 222052.6 -0501.9  
5800 9.0 222119.1 -0554.0

5801 9.0 222142.8 -0513.7  
5802 9.8 222203.9 -0551.4  
5803 10. 222225.0 -0542.4  
5804 9.1 222226.9 -0550.2  
5805 9.5 222247.0 -0521.5  
5806 7.8 222254.6 -0533.3  
5807 9.5 222256.3 -0503.2  
5808 9.8 222306.5 -0534.2  
5809 9.7 222329.8 -0516.1  
5810 8.2 222504.2 -0555.0

-05 5900 22h51m

5811 9.7 222517.9 -0547.0  
5812 9.2 222543.6 -0543.0  
5813 9.4 222611.6 -0559.2  
5814 8.5 222615.8 -0512.2  
5815 7.9 222622.1 -0537.8  
5816 9.6 222721.1 -0508.6  
5817 8.9 222722.1 -0547.6  
5818 9.2 222745.7 -0532.8  
5819 9.3 222808.6 -0540.7  
5820 8.7 222845.7 -0553.8

5821 10. 222900.2 -0525.8  
5822 9.3 222919.3 -0545.5  
5823 10. 222927.2 -0521.3  
5824 9.4 222937.8 -0548.6  
5825 10. 223018.0 -0537.2  
5826 9.4 223032.4 -0510.7  
5827 9.5 223044.6 -0539.0  
5828 9.8 223107.2 -0543.0  
5829 9.9 223108.4 -0558.0  
5830 9.8 223137.4 -0515.8

5831 9.8 223143.1 -0528.2  
5832 9.3 223153.0 -0536.9  
5833 9.8 223156.9 -0505.7  
5834 9.2 223202.2 -0540.0  
5835 9.2 223244.1 -0530.4  
5836 9.8 223244.2 -0558.2  
5837 9.5 223304.2 -0541.0  
5838 9.4 223403.5 -0505.7  
5839 10. 223408.3 -0518.6  
5840 9.5 223408.9 -0506.2

5841 9.5 223419.4 -0516.0  
5842 9.4 223433.1 -0553.9  
5843 6.7 223433.2 -0550.8  
5844 9.3 223457.3 -0547.4  
5845 9.7 223520.3 -0544.6  
5846 9.2 223521.6 -0550.3  
5847 8.3 223522.2 -0526.5  
5848 8.8 223609.2 -0557.7  
5849 9.2 223613.1 -0532.0  
5850 10. 223621.7 -0543.8

5851 10. 223631.3 -0523.6  
5852 9.4 223705.0 -0507.0  
5853 9.6 223707.0 -0517.3  
5854 9.8 223719.4 -0502.1  
5855 8.5 223723.3 -0540.4  
5856 9.5 223747.2 -0559.2  
5857 9.7 223751.8 -0525.7  
5858 9.5 223755.6 -0534.7  
5859 10. 223831.5 -0541.4  
5860 10. 223840.3 -0515.0

5861 9.9 223937.2 -0530.6  
5862 9.5 224000.9 -0523.0  
5863 9.0 224003.5 -0504.4  
5864 9.5 224015.1 -0523.8  
5865 10. 224021.6 -0548.7  
5866 8.2 224059.0 -0520.4  
5867 10. 224102.4 -0525.9  
5868 9.2 224154.7 -0541.1  
5869 10. 224204.3 -0509.4  
5870 9.0 224222.0 -0506.8

5871 9.2 224226.4 -0540.1  
5872 9.7 224228.4 -0526.8  
5873 9.5 224337.0 -0501.4  
5874 9.4 224337.5 -0516.4  
5875 9.4 224437.6 -0521.5  
5876 9.9 224439.0 -0516.0  
5877 10. 224516.4 -0524.0  
5878 9.5 224537.3 -0508.4  
5879 9.5 224537.7 -0535.5  
5880 7.3 224613.2 -0525.5

5881 8.9 224640.0 -0512.4  
5882 10. 224646.6 -0538.4  
5883 9.3 224713.2 -0505.7  
5884 9.7 224713.8 -0551.7  
5885 6.0 224739.1 -0545.7  
5886 9.4 224821.2 -0500.5  
5887 9.2 224832.9 -0554.9  
5888 9.3 224848.3 -0528.5  
5889 9.3 224850.7 -0526.7  
5890 9.4 224852.6 -0521.8

5891 10. 224911.5 -0521.4  
5892 10. 224927.4 -0506.3  
5893 9.5 224928.2 -0515.1  
5894 6.5 224946.3 -0535.0  
5895 9.8 225000.7 -0518.9  
5896 9.2 225039.6 -0549.0  
5897 8.3 225059.7 -0516.5  
5898 9.6 225118.6 -0505.6  
5899 9.7 225125.3 -0504.6  
5900 9.3 225130.2 -0517.7



-05 5901 22h51m

5901 9.4 225130.2 -0518.3  
5902 9.8 225203.7 -0537.6  
5903 8.0 225211.2 -0508.3  
5904 10. 225238.6 -0537.6  
5905 8.5 225307.1 -0519.7  
5906 10. 225324.4 -0514.0  
5907 9.7 225335.8 -0519.4  
5908 10. 225336.6 -0537.5  
5909 9.0 225353.1 -0508.8  
5910 6.0 225401.2 -0529.0  
  
5911 9.2 225436.0 -0543.8  
5912 9.2 225451.1 -0543.8  
5913 9.5 225503.1 -0500.0  
5914 10. 225542.3 -0550.9  
5915 9.8 225551.2 -0554.8  
5916 9.7 225556.4 -0503.7  
5917 7.0 225624.0 -0534.4  
5918 9.4 225627.5 -0512.2  
5919 10. 225632.4 -0553.0  
5920 10. 225714.9 -0508.8  
  
5921 8.7 225716.7 -0556.5  
5922 9.7 225754.6 -0542.9  
5923 8.8 225758.2 -0501.8  
5924 10. 225816.2 -0544.6  
5925 10. 225836.1 -0514.3  
5926 9.6 225838.2 -0538.0  
5927 10. 225944.1 -0519.2  
5928 9.8 225949.0 -0502.2  
5929 9.5 225957.6 -0549.1  
5930 10. 230007.4 -0556.8  
  
5931 8.9 230016.7 -0552.7  
5932 8.8 230024.6 -0532.3  
5933 9.8 230029.4 -0535.7  
5934 9.6 230056.6 -0503.2  
5935 8.9 230109.7 -0533.7  
5936 10. 230124.4 -0552.3  
5937 9.6 230154.5 -0517.2  
5938 9.5 230205.8 -0556.9  
5939 8.9 230306.9 -0546.3  
5940 9.1 230308.6 -0552.4  
  
5941 9.5 230312.0 -0558.9  
5942 9.5 230322.0 -0513.2  
5943 9.4 230334.8 -0548.7  
5944 9.0 230340.2 -0506.3  
5945 8.5 230347.3 -0553.2  
5946 9.3 230422.1 -0536.2  
5947 9.3 230500.6 -0547.6  
5948 9.8 230536.7 -0532.2  
5949 9.5 230538.7 -0503.3  
5950 9.6 230600.8 -0523.8  
  
5951 9.5 230611.3 -0535.6  
5952 10. 230627.4 -0542.6  
5953 9.5 230646.6 -0500.3  
5954 10. 230657.2 -0536.0  
5955 10. 230702.4 -0540.3  
5956 9.5 230709.1 -0502.8  
5957 8.2 230751.2 -0519.2  
5958 9.6 230912.9 -0555.2  
5959 8.8 230916.6 -0500.6  
5960 9.6 230926.9 -0553.8  
  
5961 7.8 230945.7 -0513.3  
5962 9.4 230952.8 -0548.7  
5963 8.5 231024.2 -0518.9  
5964 9.8 231054.2 -0536.2  
5965 8.7 231121.4 -0553.7  
5966 6.2 231153.2 -0554.8  
5967 9.7 231158.9 -0545.0  
5968 10. 231208.3 -0514.9  
5969 9.9 231232.9 -0551.4  
5970 9.7 231305.5 -0558.8  
  
5971 9.8 231309.0 -0546.5  
5972 8.6 231335.9 -0533.5  
5973 7.0 231353.8 -0527.9  
5974 9.6 231357.7 -0507.9  
5975 9.5 231428.8 -0545.0  
5976 9.3 231506.4 -0531.6  
5977 9.2 231515.7 -0508.8  
5978 8.9 231521.0 -0549.7  
5979 9.7 231526.9 -0525.7  
5980 9.5 231528.3 -0524.0  
  
5981 10. 231621.4 -0526.0  
5982 9.2 231654.2 -0511.8  
5983 9.0 231658.0 -0559.5  
5984 9.4 231709.4 -0531.7  
5985 8.9 231719.5 -0550.2  
5986 9.2 231745.8 -0521.8  
5987 10. 231801.2 -0501.1  
5988 10. 231819.3 -0512.5  
5989 9.1 231819.6 -0553.7  
5990 9.7 231822.8 -0549.2

5991 10. 231822.2 -0540.1  
5992 9.0 231902.3 -0526.0  
5993 9.0 231910.5 -0547.7  
5994 9.8 231942.0 -0517.8  
5995 9.1 232042.8 -0556.5  
5996 9.0 232110.2 -0504.8  
5997 9.1 232111.1 -0515.3  
5998 10. 232135.3 -0504.5  
5999 6.2 232202.4 -0519.1  
6000 9.6 232215.9 -0522.6  
  
6001 9.0 232244.9 -0538.1  
6002 9.3 232252.5 -0538.4  
6003 8.0 232329.1 -0551.2  
6004 9.3 232349.9 -0551.2  
6005 8.9 232356.8 -0503.0  
6006 9.4 232412.9 -0510.8  
6007 9.5 232422.4 -0532.7  
6008 10. 232439.1 -0556.5  
6009 9.5 232511.3 -0548.5  
6010 9.5 232525.3 -0513.1  
  
6011 7.2 232559.9 -0511.6  
6012 9.0 232618.6 -0555.9  
6013 10. 232632.0 -0513.1  
6014 9.6 232641.5 -0526.6  
6015 10. 232714.4 -0532.2  
6016 9.5 232739.7 -0559.0  
6017 9.7 232743.9 -0516.4  
6018 10. 232745.4 -0525.4  
6019 10. 232749.9 -0549.2  
6020 9.7 232921.4 -0500.6  
  
6021 10. 232940.0 -0544.8  
6022 8.7 232969.2 -0556.5  
6023 10. 232981.0 -0558.0  
6024 9.4 233057.6 -0548.5  
6025 9.5 233107.2 -0514.7  
6026 9.6 233134.0 -0544.7  
6027 9.5 233146.9 -0503.8  
6028 9.0 233204.0 -0545.0  
6029 8.8 233216.1 -0528.1  
6030 9.0 233219.4 -0508.4  
  
6031 9.8 233222.4 -0508.0  
6032 10. 233227.7 -0511.8  
6033 8.7 233250.1 -0513.5  
6034 9.3 233407.6 -0543.8  
6035 9.5 233501.5 -0531.5  
6036 10. 233524.7 -0536.4  
6037 9.5 233545.8 -0519.5  
6038 9.7 233620.3 -0555.0  
6039 10. 233647.1 -0553.4  
6040 9.8 233701.7 -0528.3  
  
6041 8.7 233707.8 -0548.6  
6042 9.5 233710.6 -0510.9  
6043 10. 233748.2 -0528.0  
6044 9.0 233806.7 -0535.5  
6045 9.6 233855.5 -0539.1  
6046 9.5 233953.6 -0516.5  
6047 9.5 234007.9 -0558.3  
6048 7.3 234012.1 -0515.6  
6049 9.2 234013.9 -0507.8  
6050 9.4 234014.7 -0555.6  
  
6051 9.3 234015.5 -0521.9  
6052 8.8 234023.2 -0544.2  
6053 9.7 234043.3 -0500.0  
6054 10. 234046.4 -0553.5  
6055 8.9 234101.6 -0529.0  
6056 7.7 234117.5 -0514.3  
6057 9.9 234146.4 -0555.9  
6058 10. 234152.5 -0510.0  
6059 10. 234210.6 -0547.9  
6060 9.3 234242.5 -0512.7  
  
6061 10. 234306.6 -0509.2  
6062 10. 234339.1 -0544.0  
6063 9.9 234340.6 -0507.8  
6064 9.3 234348.2 -0514.1  
6065 9.4 234402.5 -0555.9  
6066 9.4 234415.1 -0509.9  
6067 10. 234424.7 -0544.5  
6068 10. 234447.2 -0511.9  
6069 9.8 234500.1 -0501.6  
6070 9.0 234515.1 -0506.2  
  
6071 10. 234544.7 -0517.3  
6072 9.1 234556.9 -0551.5  
6073 10. 234607.2 -0517.7  
6074 9.2 234620.6 -0521.7  
6075 8.8 234636.8 -0504.9  
6076 9.2 234646.5 -0557.3  
6077 9.2 234647.9 -0545.4  
6078 9.1 234704.9 -0544.7  
6079 9.1 234708.3 -0531.8  
6080 9.5 234724.7 -0519.1

6081 7.5 234741.2 -0528.2  
6082 9.5 234750.1 -0500.4  
6083 8.0 234758.8 -0542.3  
6084 9.6 234830.9 -0503.3  
6085 10. 234842.0 -0511.9  
6086 10. 234857.0 -0503.4  
6087 9.8 234914.1 -0506.7  
6088 8.5 235012.6 -0546.9  
6089 9.6 235038.5 -0500.2  
6090 9.5 235039.9 -0512.7  
  
6091 9.8 235055.0 -0514.4  
6092 9.9 235116.0 -0500.2  
6093 9.2 235126.0 -0505.4  
6094 10. 235146.4 -0528.3  
6095 10. 235157.3 -0511.5  
6096 10. 235330.4 -0525.6  
6097 8.5 235341.1 -0543.9  
6098 9.4 235352.9 -0541.6  
6099 10. 235408.3 -0549.5  
6100 8.5 235509.2 -0559.8  
  
6101 10. 235515.2 -0552.7  
6102 10. 235559.4 -0557.0  
6103 8.7 235633.5 -0507.0  
6104 10. 235640.9 -0559.2  
6105 9.0 235645.2 -0544.1  
6106 9.5 235654.1 -0512.0  
6107 10. 235657.4 -0558.3  
6108 9.3 235737.5 -0546.8  
6109 9.5 235738.0 -0527.2  
6110 10. 235742.1 -0514.0  
  
6111 10. 235755.6 -0553.3  
6112 9.5 235831.1 -0535.9  
6113 9.7 235841.6 -0500.0  
6114 10. 235845.5 -0558.8  
6115 9.4 235903.6 -0503.5  
6116 9.3 235907.4 -0556.0  
6117 8.3 235921.1 -0509.3  
1 8.9 00022.4 -0417.7  
2 10. 00031.3 -0443.0  
3 8.8 00050.4 -0409.1  
  
4 9.5 00056.7 -0427.3  
5 9.1 00121.2 -0453.8  
6 9.5 00126.4 -0401.4  
7 9.7 00150.7 -0432.4  
8 9.8 00159.5 -0422.5  
9 10. 00233.9 -0424.1  
10 9.6 00246.3 -0401.3  
11 6.8 00252.2 -0403.4  
12 8.7 00259.3 -0450.7  
13 9.5 00314.1 -0449.1  
  
14 9.4 00320.1 -0429.0  
15 9.5 00338.4 -0435.5  
16 9.5 00447.7 -0440.7  
17 10. 00450.7 -0455.7  
18 9.1 00452.1 -0444.4  
19 8.0 00547.9 -0402.9  
20 9.8 00551.2 -0412.6  
21 9.2 00554.8 -0447.3  
22 9.5 00615.1 -0426.2  
23 10. 00622.9 -0400.7  
  
24 9.5 00635.0 -0420.0  
25 9.8 00637.7 -0414.9  
26 9.3 00641.2 -0425.9  
27 9.8 00649.5 -0423.1  
28 9.7 00733.8 -0457.3  
29 8.0 00752.6 -0456.7  
30 7.6 00826.5 -0424.3  
31 10. 00859.0 -0435.4  
32 10. 00906.1 -0452.4  
33 9.4 00926.6 -0422.1  
  
34 9.3 00940.5 -0411.5  
35 9.8 00949.7 -0425.4  
36 9.5 01022.8 -0444.2  
37 8.4 01023.9 -0451.1  
38 9.3 01024.7 -0451.6  
39 9.5 01039.0 -0448.0  
40 9.5 01042.8 -0446.8  
41 10. 01052.5 -0411.1  
42 10. 01058.7 -0439.1  
43 9.7 01119.3 -0436.0  
  
44 9.1 01207.4 -0445.4  
45 9.6 01226.1 -0405.5  
46 8.7 01226.8 -0415.6  
47 9.5 01229.8 -0438.2  
48 9.3 01237.3 -0438.8  
49 9.2 01313.6 -0419.9  
50 9.3 01317.0 -0440.0  
51 9.7 01353.5 -0410.1  
52 9.2 01355.5 -0456.5  
53 9.9 01412.6 -0408.3

54 9.6 01441.0 -0456.2  
55 9.5 01441.6 -0411.1  
56 9.9 01447.9 -0439.8  
57 9.5 01451.2 -0466.1  
58 9.0 01537.5 -0461.7  
59 9.2 01611.0 -0432.8  
60 9.2 01625.9 -0426.5  
61 10. 01637.6 -0425.3  
62 9.7 01711.1 -0451.8  
63 10. 01728.5 -0406.9  
  
64 9.7 01738.0 -0407.8  
65 9.6 01816.6 -0444.6  
66 9.4 01826.0 -0409.4  
67 9.1 01832.7 -0452.5  
68 9.4 01902.4 -0436.9  
69 9.9 01915.6 -0424.3  
70 10. 01916.8 -0416.4  
71 8.5 01928.7 -0419.9  
72 9.4 01929.1 -0419.2  
73 9.0 01941.2 -0451.8  
  
74 10. 02032.3 -0444.1  
75 10. 02036.1 -0406.8  
76 9.5 02140.4 -0449.4  
77 9.4 02141.0 -0454.3  
78 9.8 02142.1 -0409.8  
79 7.8 02154.0 -0442.2  
80 8.3 02155.3 -0428.3  
81 9.3 02202.0 -0428.6  
82 9.1 02237.4 -0433.7  
83 8.5 02237.9 -0454.0  
  
84 9.8 02323.5 -0402.8  
85 9.5 02350.1 -0435.9  
86 9.1 02430.0 -0404.0  
87 9.8 02501.1 -0430.1  
88 10. 02601.2 -0447.8  
89 8.8 02652.4 -0452.2  
90 10. 02719.3 -0437.8  
91 9.8 02759.7 -0408.5  
92 9.0 02809.4 -0456.7  
93 9.1 02822.2 -0452.0  
  
94 9.1 02827.1 -0429.2  
95 9.8 02837.2 -0403.5  
96 6.5 02838.0 -0421.8  
97 9.3 02841.1 -0433.9  
98 9.7 02854.2 -0430.8  
99 9.6 02855.2 -0412.0  
100 9.4 02932.1 -0440.6  
101 8.5 02934.1 -0454.1  
102 9.3 03022.8 -0432.1  
103 8.5 03034.3 -0447.7  
  
104 10. 03053.2 -0430.7  
105 9.8 03058.8 -0418.2  
106 9.5 03118.2 -0436.1  
107 9.4 03118.7 -0434.2  
108 10. 03136.3 -0428.9  
109 9.5 03206.3 -0421.4  
110 9.0 03224.7 -0403.7  
111 9.5 03243.4 -0455.8  
112 9.3 03232.2 -0403.7  
113 10. 03356.9 -0417.4  
  
114 10. 03416.4 -0436.8  
115 8.9 03426.8 -0449.3  
116 9.0 03451.9 -0425.7  
117 9.2 03458.3 -0430.2  
118 9.5 03504.0 -0455.4  
119 9.2 03504.8 -0430.7  
120 9.9 03511.5 -0424.8  
121 9.8 03601.4 -0453.5  
122 9.1 03641.8 -0441.6  
123 9.2 03659.3 -0413.5  
  
124 8.5 03707.6 -0425.7  
125 9.1 03717.4 -0413.9  
126 9.5 03720.5 -0456.0  
127 10. 03724.2 -0449.2  
128 10. 03731.6 -0439.4  
129 10. 03749.7 -0447.9  
130 10. 03829.8 -0443.5  
131 9.0 03843.9 -0426.5  
132 10. 03849.3 -0402.0  
133 9.8 03858.2 -0459.2  
  
134 9.3 03924.5 -0450.0  
135 9.5 03930.5 -0453.5  
136 9.5 03954.8 -0400.8  
137 9.4 04015.4 -0410.9  
138 9.6 04027.3 -0440.4  
139 8.0 04031.5 -0447.1  
140 9.8 04134.9 -0441.0  
141 8.7 04153.7 -0457.8  
142 10. 04219.1 -0434.8  
143 9.5 04220.0 -0424.4

-06 143 04h2m



144 9.3 04244.8 -0636.0  
 145 8.9 04252.6 -0659.2  
 146 8.9 04306.2 -0616.8  
 147 9.8 04306.4 -0643.3  
 148 8.0 04310.0 -0606.1  
 149 10. 04317.5 -0615.9  
 150 9.9 04406.0 -0621.2  
 151 7.8 04423.1 -0653.8  
 152 9.1 04425.0 -0622.0  
 153 8.3 04450.5 -0647.7

154 10. 04540.3 -0648.7  
 155 10. 04542.7 -0638.4  
 156 8.6 04545.0 -0624.6  
 157 9.1 04555.4 -0626.8  
 158 9.3 04604.1 -0632.5  
 159 9.0 04629.0 -0645.4  
 160 9.6 04650.9 -0637.0  
 161 9.8 04738.7 -0652.4  
 162 8.6 04748.5 -0613.1  
 163 9.8 04751.1 -0645.2

164 9.7 04755.0 -0635.9  
 165 8.6 04840.0 -0615.0  
 166 9.5 04849.5 -0609.6  
 167 9.0 04903.5 -0608.3  
 168 9.5 04920.2 -0656.1  
 169 10. 04931.1 -0624.3  
 170 8.6 04957.5 -0653.4  
 171 9.2 05005.5 -0653.4  
 172 9.3 05014.1 -0616.1  
 173 10. 05026.3 -0611.3

174 9.1 05115.6 -0656.2  
 175 9.8 05116.6 -0617.5  
 176 6.8 05124.8 -0639.7  
 177 9.8 05136.0 -0611.6  
 178 9.6 05139.1 -0612.8  
 179 9.3 05206.7 -0626.3  
 180 9.5 05209.7 -0635.7  
 181 9.9 05239.7 -0620.3  
 182 10. 05246.0 -0650.1  
 183 10. 05319.1 -0647.4

184 10. 05321.7 -0630.4  
 185 9.8 05334.9 -0636.3  
 186 9.8 05338.6 -0606.5  
 187 9.8 05357.7 -0657.5  
 188 8.5 05401.6 -0606.3  
 189 9.8 05414.5 -0602.5  
 190 8.7 05422.0 -0645.2  
 191 9.6 05424.1 -0614.7  
 192 9.1 05524.3 -0636.7  
 193 10. 05533.7 -0605.3

194 10. 05542.1 -0633.0  
 195 9.6 05603.6 -0604.0  
 196 9.3 05607.2 -0635.1  
 197 8.5 05608.0 -0622.1  
 198 10. 05620.1 -0650.5  
 199 9.4 05632.4 -0618.7  
 200 8.3 05703.1 -0604.6  
 201 7.8 05716.7 -0605.9  
 202 8.5 05726.6 -0614.7  
 203 9.8 05743.5 -0652.9

204 8.8 05824.9 -0638.0  
 205 9.3 05904.9 -0636.0  
 206 9.2 05935.7 -0607.5  
 207 9.0 05940.2 -0606.4  
 208 9.1 10026.0 -0611.5  
 209 10. 10046.2 -0652.2  
 210 9.4 10056.1 -0659.9  
 211 9.8 10056.2 -0614.5  
 212 7.5 10107.5 -0656.8  
 213 9.6 10118.8 -0618.5

214 9.1 10120.5 -0644.0  
 215 9.1 10125.6 -0644.9  
 216 9.8 10226.9 -0639.8  
 217 9.0 10231.3 -0613.6  
 218 9.8 10251.6 -0645.0  
 219 10. 10259.0 -0610.6  
 220 6.8 10310.7 -0651.2  
 221 9.5 10312.9 -0633.5  
 222 9.8 10320.9 -0630.9  
 223 10. 10324.1 -0645.7

224 10. 10337.0 -0638.9  
 225 9.5 10348.9 -0633.7  
 226 8.5 10414.8 -0606.9  
 227 9.5 10417.7 -0647.6  
 228 9.4 10425.3 -0656.1  
 229 9.5 10434.3 -0633.8  
 230 9.5 10530.7 -0652.5  
 231 9.5 10555.9 -0610.4  
 232 9.0 10607.0 -0643.9  
 233 10. 10608.2 -0648.1

234 9.4 10610.6 -0657.9  
 235 9.4 10627.4 -0609.5  
 236 9.5 10710.3 -0612.6  
 237 9.5 10713.2 -0656.1  
 238 10. 10753.4 -0618.0  
 239 9.5 10755.4 -0615.7  
 240 9.6 10857.9 -0635.2  
 241 9.0 10933.3 -0633.9  
 242 9.3 10934.0 -0600.0  
 243 9.1 10945.0 -0643.7

244 7.8 11001.9 -0623.6  
 245 9.4 11020.5 -0620.0  
 246 9.0 11023.3 -0639.4  
 247 9.7 11028.3 -0602.1  
 248 9.4 11036.4 -0606.2  
 249 9.8 11057.0 -0620.9  
 250 9.0 11139.8 -0637.8  
 251 8.0 11217.4 -0605.2  
 252 9.4 11310.0 -0625.7  
 253 9.1 11322.2 -0659.6

254 9.1 11327.5 -0615.1  
 255 9.3 11345.8 -0653.8  
 256 6.5 11359.3 -0655.0  
 257 9.4 11407.9 -0603.0  
 258 9.6 11436.4 -0606.7  
 259 9.4 11447.8 -0603.5  
 260 9.5 11502.3 -0646.8  
 261 10. 11524.3 -0630.8  
 262 9.4 11534.4 -0641.0  
 263 10. 11539.6 -0640.7

264 7.4 11632.8 -0634.3  
 265 9.5 11647.0 -0613.7  
 266 9.5 11647.7 -0604.6  
 267 9.4 11704.1 -0639.1  
 268 9.0 11726.8 -0644.3  
 269 8.8 11736.6 -0638.0  
 270 7.0 11742.2 -0642.1  
 271 9.8 11835.0 -0616.0  
 272 9.7 11907.7 -0604.8  
 273 9.6 12002.5 -0616.8

274 10. 12034.4 -0659.4  
 275 8.2 12058.8 -0649.5  
 276 10. 12118.1 -0617.2  
 277 9.4 12127.6 -0639.4  
 278 7.8 12143.1 -0627.1  
 279 9.3 12224.1 -0639.0  
 280 7.0 12235.2 -0620.7  
 281 1.3 12240.1 -0629.6  
 282 9.5 12328.0 -0613.1  
 283 10. 12329.0 -0643.6

284 8.5 12350.1 -0617.5  
 285 10. 12355.9 -0624.4  
 286 9.8 12408.2 -0637.9  
 287 10. 12422.1 -0622.9  
 288 9.8 12438.8 -0648.7  
 289 8.4 12444.6 -0638.4  
 290 9.2 12521.2 -0636.1  
 291 8.9 12553.3 -0643.2  
 292 9.8 12640.2 -0605.2  
 293 9.0 12702.9 -0651.7

294 9.4 12706.0 -0658.1  
 295 9.9 12715.5 -0648.7  
 296 10. 12750.1 -0629.7  
 297 9.8 12816.9 -0652.0  
 298 9.5 12820.3 -0645.4  
 299 9.6 12827.9 -0632.5  
 300 10. 12912.0 -0612.5  
 301 9.2 12923.5 -0631.8  
 302 9.3 12941.9 -0656.9  
 303 9.1 12951.5 -0627.1

304 9.5 13001.9 -0625.6  
 305 9.5 13006.6 -0627.5  
 306 9.1 13043.3 -0624.4  
 307 7.3 13128.2 -0628.2  
 308 9.5 13140.3 -0604.0  
 309 9.5 13156.4 -0655.7  
 310 9.5 13215.0 -0656.4  
 311 9.8 13270.9 -0657.4  
 312 9.8 13306.3 -0641.5  
 313 9.8 13373.8 -0626.0

314 9.0 13350.5 -0643.3  
 315 8.5 13355.5 -0654.0  
 316 8.4 13342.1 -0608.5  
 317 9.9 13343.2 -0633.5  
 318 9.0 13359.8 -0646.4  
 319 10. 13405.2 -0651.1  
 320 10. 13431.5 -0656.9  
 321 9.9 13451.3 -0620.9  
 322 9.5 13508.5 -0657.9  
 323 9.8 13522.7 -0612.0

324 9.8 13528.2 -0611.0  
 325 9.3 13543.9 -0627.2  
 326 9.5 13551.7 -0615.0  
 327 8.5 13634.8 -0615.0  
 328 9.4 13702.8 -0629.4  
 329 9.5 13703.6 -0625.2  
 330 9.1 13743.0 -0630.4  
 331 9.9 13754.0 -0635.3  
 332 9.4 13756.0 -0629.4  
 333 9.7 13815.8 -0608.8

334 9.1 13833.4 -0600.6  
 335 9.5 13842.1 -0656.6  
 336 5.8 13843.0 -0627.7  
 337 9.5 13847.8 -0639.6  
 338 9.2 13900.3 -0630.2  
 339 9.0 13957.6 -0658.8  
 340 9.0 14107.3 -0604.8  
 341 10. 14112.1 -0626.4  
 342 10. 14142.1 -0640.1  
 343 9.7 14210.4 -0643.2

344 10. 14216.0 -0652.2  
 345 8.5 14244.6 -0653.8  
 346 9.7 14304.7 -0602.3  
 347 9.4 14310.5 -0651.1  
 348 9.0 14311.1 -0630.4  
 349 9.3 14311.4 -0634.5  
 350 9.8 14340.4 -0618.7  
 351 8.8 14347.3 -0611.5  
 352 9.8 14410.2 -0656.7  
 353 10. 14449.7 -0602.4

354 9.8 14504.8 -0627.0  
 355 9.6 14511.1 -0628.9  
 356 9.6 14520.1 -0633.5  
 357 9.2 14526.9 -0638.9  
 358 9.9 14631.4 -0658.5  
 359 9.8 14632.5 -0622.4  
 360 7.5 14721.2 -0659.0  
 361 9.1 14731.6 -0622.4  
 362 9.5 14743.0 -0618.7  
 363 9.6 14803.6 -0649.5

364 9.9 14832.4 -0609.3  
 365 9.6 14836.1 -0606.2  
 366 9.8 14855.5 -0613.1  
 367 9.4 14858.4 -0638.7  
 368 9.5 14918.6 -0623.7  
 369 9.8 15019.1 -0624.1  
 370 9.8 15030.0 -0644.4  
 371 9.4 15037.7 -0624.3  
 372 9.5 15043.1 -0651.0  
 373 8.8 15052.6 -0644.6

374 9.3 15057.4 -0640.7  
 375 10. 15113.0 -0639.7  
 376 8.9 15205.1 -0649.3  
 377 9.3 15222.8 -0602.9  
 378 9.0 15239.4 -0607.6  
 379 9.5 15243.1 -0623.1  
 380 9.3 15252.9 -0606.4  
 381 9.5 15311.4 -0644.3  
 382 10. 15347.3 -0657.7  
 383 9.5 15403.8 -0613.0

384 9.7 15430.5 -0631.2  
 385 9.3 15440.6 -0644.3  
 386 9.0 15443.2 -0649.0  
 387 9.7 15501.2 -0632.8  
 388 9.8 15515.1 -0646.2  
 389 9.4 15534.1 -0655.6  
 390 9.3 15542.0 -0637.6  
 391 10. 15559.2 -0651.0  
 392 9.3 15600.4 -0600.4  
 393 9.8 15629.0 -0607.3

394 9.4 15630.4 -0629.3  
 395 10. 15636.3 -0659.2  
 396 9.7 15645.9 -0633.0  
 397 7.5 15659.7 -0624.4  
 398 9.4 15741.0 -0605.2  
 399 9.0 15811.1 -0643.6  
 400 9.5 15816.2 -0649.0  
 401 9.0 15819.0 -0641.8  
 402 9.5 15837.5 -0604.6  
 403 10. 15842.6 -0647.9

404 9.2 15853.5 -0622.6  
 405 9.8 15853.5 -0604.8  
 406 9.8 15922.2 -0617.5  
 407 8.2 15926.9 -0627.9  
 408 9.5 20007.1 -0637.1  
 409 9.5 20021.6 -0644.2  
 410 9.3 20044.2 -0643.7  
 411 9.1 20045.6 -0605.8  
 412 8.8 20103.2 -0626.1  
 413 9.4 20138.3 -0628.0

414 10. 20152.2 -0623.8  
 415 9.1 20157.9 -0625.7  
 416 9.6 20212.5 -0602.5  
 417 9.8 20316.0 -0631.4  
 418 9.8 20339.1 -0604.9  
 419 10. 20358.4 -0648.5  
 420 8.3 20404.7 -0619.4  
 421 7.8 20427.3 -0649.0  
 422 9.3 20453.4 -0631.2  
 423 9.0 20503.0 -0604.0

424 9.5 20515.3 -0649.7  
 425 9.4 20534.5 -0642.8  
 426 10. 20535.8 -0652.7  
 427 9.0 20600.2 -0640.8  
 428 9.9 20604.4 -0659.6  
 429 10. 20611.1 -0627.8  
 430 9.3 20639.0 -0629.5  
 431 9.1 20704.2 -0605.9  
 432 9.0 20721.1 -0637.4  
 433 9.7 20731.7 -0642.7

434 8.5 20737.3 -0647.0  
 435 10. 20750.6 -0605.5  
 436 9.8 20822.6 -0608.0  
 437 10. 20832.8 -0651.5  
 438 9.9 20840.4 -0646.5  
 439 9.9 20907.6 -0631.8  
 440 9.1 20928.8 -0620.7  
 441 9.9 20934.3 -0652.5  
 442 9.3 20936.1 -0647.4  
 443 9.9 20951.9 -0649.8

444 9.0 21005.7 -0643.1  
 445 9.8 21013.3 -0615.3  
 446 9.8 21044.9 -0651.4  
 447 8.8 21110.3 -0641.6  
 448 9.8 21110.6 -0624.6  
 449 9.8 21133.5 -0611.4  
 450 9.4 21134.7 -0629.1  
 451 9.3 21213.2 -0653.0  
 452 9.5 21213.7 -0622.7  
 453 7.5 21242.0 -0659.1

454 9.1 21246.4 -0658.9  
 455 9.0 21309.9 -0658.8  
 456 9.0 21318.3 -0651.2  
 457 9.2 21331.8 -0610.1  
 458 10. 21353.9 -0649.0  
 459 9.3 21439.0 -0622.2  
 460 9.9 21451.7 -0642.3  
 461 9.9 21459.4 -0654.4  
 462 9.6 21505.3 -0635.6  
 463 9.0 21514.9 -0649.5

464 9.5 21525.1 -0612.9  
 465 9.5 21525.4 -0620.1  
 466 9.3 21526.0 -0624.0  
 467 9.1 21602.5 -0652.9  
 468 9.3 21602.6 -0608.7  
 469 9.3 21607.5 -0654.9  
 470 7.0 21608.9 -0650.6  
 471 9.7 21701.7 -0645.7  
 472 9.8 21721.0 -0625.3  
 473 8.9 21725.1 -0633.1

474 9.5 21803.9 -0615.5  
 475 9.3 21808.3 -0625.3  
 476 9.8 21817.0 -0624.5  
 477 9.8 21851.5 -0630.1  
 478 9.1 21906.8 -0604.5  
 479 9.5 21911.9 -0620.0  
 480 9.2 21935.2 -0644.3  
 481 8.2 21951.7 -0644.8  
 482 9.8 22040.3 -0651.9  
 483 9.8 22112.8 -0602.7

484 9.0 22133.5 -0618.7  
 485 9.5 22129.7 -0600.3  
 486 8.1 22149.8 -0606.0  
 487 9.8 22212.6 -0656.4  
 488 10. 22215.5 -0625.8  
 489 9.7 22248.8 -0635.6  
 490 8.5 22308.9 -0658.6  
 491 9.5 22317.5 -0630.2  
 492 9.1 22338.1 -0630.6  
 493 9.5 22352.1 -0658.6

494 9.5 22358.7 -0601.2  
 495 9.9 22434.8 -0642.0  
 496 9.3 22443.4 -0647.4  
 497 9.0 22456.8 -0631.2  
 498 9.4 22456.9 -0624.4  
 499 9.3 22529.7 -0606.2  
 500 9.5 22546.6 -0635.4  
 501 8.2 22640.3 -0638.6  
 502 7.0 22654.0 -0616.4  
 503 9.0 22711.5 -0656.6



-06 504 2h28m

504 9.4 22805.1 -0653.4  
505 9.4 22807.4 -0647.3  
506 8.5 22820.0 -0618.5  
507 9.6 22859.5 -0612.5  
508 9.8 22935.5 -0645.1  
509 9.1 22952.4 -0638.2  
510 9.5 23036.2 -0621.0  
511 8.6 23106.8 -0636.0  
512 9.8 23226.4 -0642.5  
513 8.9 23254.6 -0618.7

514 9.5 23319.6 -0659.1  
515 9.8 23337.9 -0630.9  
516 9.5 23425.4 -0653.9  
517 9.5 23427.3 -0624.4  
518 9.4 23430.5 -0632.4  
519 9.5 23443.6 -0613.0  
520 9.1 23500.9 -0643.7  
521 9.6 23508.0 -0631.3  
522 9.4 23530.4 -0639.6  
523 9.0 23612.4 -0604.8

524 7.0 23649.2 -0637.5  
525 8.3 23649.3 -0657.8  
526 9.8 23655.2 -0641.8  
527 9.5 23659.3 -0640.0  
528 9.1 23659.8 -0613.0  
529 9.5 23718.9 -0602.8  
530 9.9 23723.0 -0613.9  
531 9.7 23738.3 -0631.2  
532 9.8 23739.0 -0621.2  
533 10. 23740.5 -0641.8

534 9.5 23745.1 -0645.2  
535 9.5 23747.9 -0603.8  
536 9.8 23803.0 -0637.7  
537 9.0 23803.4 -0606.2  
538 9.0 23809.0 -0620.3  
539 9.0 23820.8 -0657.5  
540 8.0 23934.8 -0626.3  
541 9.6 23943.7 -0631.5  
542 8.5 24001.8 -0622.7  
543 9.4 24018.5 -0637.6

544 9.6 24025.1 -0647.3  
545 9.5 24036.4 -0626.7  
546 9.5 24039.0 -0605.8  
547 9.4 24059.8 -0655.9  
548 9.0 24112.7 -0650.5  
549 8.4 24116.6 -0647.3  
550 7.2 24117.5 -0620.5  
551 9.6 24130.3 -0621.3  
552 9.5 24138.4 -0630.5  
553 9.4 24149.1 -0612.6

554 9.2 24208.7 -0628.2  
555 9.4 24214.7 -0629.8  
556 9.9 24220.0 -0610.8  
557 10. 24228.7 -0609.5  
558 9.9 24256.0 -0652.5  
559 9.9 24303.3 -0653.6  
560 9.2 24308.0 -0631.4  
561 9.0 24419.2 -0620.6  
562 9.8 24427.8 -0616.0  
563 8.5 24520.1 -0639.1

564 9.2 24522.5 -0629.4  
565 10. 24539.4 -0622.4  
566 8.5 24546.3 -0612.5  
567 9.3 24603.0 -0612.9  
568 9.7 24603.3 -0610.5  
569 9.2 24605.9 -0600.5  
570 9.4 24629.2 -0600.3  
571 9.8 24631.3 -0626.6  
572 9.1 24709.4 -0654.0  
573 9.5 24733.4 -0620.8

574 8.6 24925.8 -0650.4  
575 9.0 24930.8 -0615.4  
576 8.9 25013.9 -0654.9  
577 9.5 25105.3 -0613.8  
578 9.5 25201.5 -0626.7  
579 8.6 25205.9 -0649.6  
580 9.4 25218.7 -0634.8  
581 9.5 25242.3 -0613.8  
582 9.4 25249.0 -0643.1  
583 8.9 25258.2 -0610.0

584 9.0 25300.2 -0639.4  
585 9.1 25348.3 -0644.6  
586 9.9 25443.1 -0653.0  
587 9.1 25456.0 -0638.0  
588 8.8 25507.0 -0622.8  
589 9.1 25524.6 -0601.2  
590 9.7 25545.6 -0628.4  
591 9.1 25548.5 -0656.6  
592 9.3 25621.3 -0604.4  
593 9.3 25622.9 -0612.4

594 8.0 25625.2 -0613.4  
595 8.5 25637.6 -0616.0  
596 9.1 25708.8 -0618.0  
597 9.0 25738.2 -0636.3  
598 10. 25754.2 -0600.7  
599 9.8 25759.0 -0659.0  
600 9.5 25801.0 -0633.4  
601 9.5 25808.1 -0624.2  
602 9.0 25808.7 -0655.6  
603 8.5 25826.3 -0604.4

604 9.4 25830.3 -0631.0  
605 9.5 25909.3 -0625.5  
606 5.3 25923.7 -0639.0  
607 9.0 25951.6 -0648.0  
608 9.7 25956.6 -0632.7  
609 9.3 30001.9 -0629.1  
610 8.5 30038.5 -0619.4  
611 8.9 30048.1 -0618.0  
612 9.8 30119.5 -0618.8  
613 9.7 30122.0 -0633.0

614 8.5 30204.3 -0604.8  
615 9.3 30248.7 -0617.7  
616 9.0 30253.3 -0629.4  
617 8.6 30305.2 -0636.6  
618 9.5 30309.6 -0618.2  
619 9.7 30402.0 -0618.7  
620 9.3 30408.1 -0621.4  
621 8.5 30426.4 -0615.3  
622 9.0 30452.3 -0615.1  
623 9.5 30521.2 -0602.5

624 9.4 30542.8 -0631.9  
625 9.0 30610.6 -0616.5  
626 9.2 30621.5 -0612.2  
627 9.0 30623.9 -0652.0  
628 9.5 30629.7 -0620.5  
629 10. 30743.6 -0628.6  
630 8.4 30755.9 -0600.2  
631 8.9 30817.1 -0646.8  
632 10. 30817.3 -0628.4  
633 9.3 30823.2 -0631.8

634 9.4 30835.7 -0656.8  
635 9.4 30850.0 -0614.9  
636 6.0 30851.0 -0627.2  
637 9.4 30853.2 -0623.5  
638 6.3 30911.4 -0616.2  
639 9.8 30939.9 -0655.8  
640 9.8 31034.8 -0608.1  
641 9.5 31040.0 -0620.3  
642 9.4 31040.6 -0612.6  
643 8.8 31042.9 -0627.3

644 8.9 31104.3 -0656.9  
645 10. 31105.1 -0648.5  
646 9.3 31108.5 -0639.5  
647 9.3 31112.0 -0642.2  
648 9.3 31210.1 -0647.8  
649 9.8 31214.0 -0634.4  
650 9.5 31215.6 -0622.0  
651 9.4 31225.2 -0647.6  
652 9.1 31226.4 -0630.2  
653 9.4 31238.4 -0615.4

654 9.5 31305.4 -0629.4  
655 9.8 31329.7 -0601.8  
656 9.8 31341.1 -0642.3  
657 9.9 31341.9 -0634.4  
658 9.1 31402.0 -0643.1  
659 10. 31408.9 -0608.7  
660 9.5 31419.8 -0608.3  
661 9.3 31445.0 -0640.6  
662 9.1 31457.9 -0612.6  
663 8.4 31505.0 -0616.0

664 9.4 31513.9 -0623.8  
665 9.2 31515.4 -0607.9  
666 9.2 31526.0 -0655.5  
667 9.4 31554.8 -0654.8  
668 9.8 31603.5 -0615.8  
669 9.1 31627.9 -0631.6  
670 9.0 31642.3 -0606.9  
671 9.4 31644.3 -0629.1  
672 9.2 31719.1 -0639.8  
673 9.8 31739.6 -0639.8

674 9.3 31821.4 -0635.0  
675 9.4 31827.5 -0618.3  
676 9.5 31947.5 -0611.8  
677 9.3 32035.6 -0638.6  
678 9.4 32045.3 -0631.5  
679 9.5 32100.0 -0616.1  
680 9.6 32130.7 -0622.1  
681 9.0 32154.4 -0610.0  
682 9.0 32209.6 -0636.4  
683 9.0 32214.4 -0603.5

684 9.5 32222.7 -0633.0  
685 9.0 32251.8 -0646.7  
686 9.3 32325.4 -0653.9  
687 9.3 32326.7 -0655.4  
688 9.5 32335.8 -0636.6  
689 8.5 32339.7 -0643.1  
690 8.1 32351.4 -0607.8  
691 9.4 32408.2 -0630.0  
692 9.7 32411.1 -0610.8  
693 9.3 32415.4 -0637.0

694 8.6 32435.1 -0633.5  
695 8.5 32508.5 -0629.2  
696 9.5 32512.0 -0607.7  
697 9.8 32538.8 -0631.8  
698 10. 32545.1 -0634.3  
699 9.8 32618.2 -0611.6  
700 9.2 32618.3 -0641.5  
701 9.2 32646.9 -0600.5  
702 9.1 32736.0 -0653.1  
703 9.1 32855.3 -0625.3

704 8.8 32905.4 -0604.5  
705 9.5 32938.0 -0611.1  
706 9.5 32955.8 -0629.6  
707 9.2 33010.3 -0643.1  
708 9.5 33014.2 -0623.5  
709 9.9 33028.0 -0610.0  
710 9.6 33055.6 -0637.0  
711 9.0 33118.8 -0630.0  
712 8.6 33120.3 -0623.3  
713 5.8 33151.6 -0605.9

714 9.0 33200.7 -0658.4  
715 9.1 33205.9 -0636.7  
716 9.0 33245.1 -0609.2  
717 9.5 33259.0 -0614.4  
718 9.3 33211.2 -0631.3  
719 9.5 33330.3 -0606.8  
720 9.6 33333.1 -0650.9  
721 9.4 33339.7 -0658.5  
722 8.8 33342.8 -0640.6  
723 9.5 33359.6 -0658.5

724 9.1 33405.2 -0618.4  
725 9.0 33408.1 -0609.0  
726 8.7 33421.6 -0632.3  
727 9.4 33443.4 -0624.8  
728 8.7 33451.0 -0653.1  
729 9.5 33515.1 -0612.8  
730 9.5 33521.5 -0601.6  
731 9.4 33544.5 -0629.5  
732 9.7 33559.8 -0610.1  
733 9.8 33600.4 -0607.6

734 9.0 33632.7 -0618.4  
735 10. 33640.9 -0657.3  
736 9.0 33655.0 -0631.0  
737 9.4 33659.7 -0616.9  
738 9.0 33703.6 -0621.9  
739 9.4 33706.4 -0618.1  
740 9.5 33706.0 -0647.0  
741 9.9 33745.6 -0608.6  
742 9.5 33813.5 -0632.9  
743 9.0 33831.5 -0646.6

744 9.7 33846.4 -0620.4  
745 9.0 33847.5 -0656.4  
746 9.0 33849.4 -0624.8  
747 9.5 33926.4 -0639.9  
748 10. 33942.8 -0638.0  
749 9.3 33950.2 -0616.7  
750 9.7 34008.3 -0656.8  
751 9.1 34034.2 -0642.0  
752 9.9 34053.0 -0640.0  
753 9.1 34117.7 -0654.3

754 8.5 34126.1 -0646.9  
755 9.5 34135.5 -0619.0  
756 9.0 34209.0 -0642.7  
757 9.4 34214.9 -0626.6  
758 9.2 34329.7 -0633.6  
759 8.8 34354.6 -0630.3  
760 9.4 34401.9 -0619.5  
761 9.4 34410.4 -0647.1  
762 9.4 34424.6 -0649.4  
763 9.2 34448.3 -0611.0

764 8.9 34501.0 -0640.5  
765 9.5 34532.8 -0641.2  
766 9.0 34541.9 -0622.8  
767 9.8 34547.4 -0634.9  
768 9.5 34547.8 -0658.9  
769 9.2 34548.5 -0623.0  
770 9.6 34559.5 -0624.8  
771 9.6 34603.0 -0625.5  
772 9.1 34617.5 -0616.3  
773 10. 34618.9 -0631.8

774 9.7 34620.4 -0605.8  
775 10. 34630.1 -0623.2  
776 9.5 34631.9 -0632.5  
777 9.8 34644.3 -0622.1  
778 8.3 34701.3 -0657.2  
779 8.2 34720.5 -0617.0  
780 10. 34731.1 -0600.2  
781 10. 34739.7 -0601.8  
782 9.1 34747.4 -0617.8  
783 9.4 34807.2 -0601.7

784 9.3 34837.3 -0650.5  
785 9.1 34846.4 -0636.2  
786 9.5 34913.3 -0635.2  
787 9.0 34926.2 -0648.7  
788 9.3 34933.1 -0602.2  
789 8.7 34937.2 -0602.8  
790 9.8 34956.4 -0653.8  
791 9.8 35019.6 -0602.8  
792 9.3 35030.4 -0626.3  
793 9.0 35037.0 -0650.4

794 9.9 35041.3 -0647.7  
795 8.7 35056.2 -0610.7  
796 9.5 35144.9 -0635.0  
797 9.5 35158.3 -0617.6  
798 9.8 35232.0 -0639.1  
799 8.4 35311.8 -0647.8  
800 9.4 35340.9 -0612.7  
801 9.3 35344.7 -0603.0  
802 8.8 35405.1 -0639.1  
803 9.5 35421.4 -0617.8

804 9.5 35430.9 -0650.5  
805 8.8 35506.6 -0623.4  
806 9.0 35507.4 -0617.7  
807 9.9 35613.1 -0619.9  
808 9.0 35631.0 -0620.0  
809 8.0 35651.8 -0627.2  
810 9.8 35719.0 -0614.7  
811 8.4 35722.9 -0634.2  
812 9.1 35731.9 -0634.3  
813 9.2 35755.6 -0624.2

814 8.5 35809.3 -0648.6  
815 8.5 35817.2 -0644.2  
816 9.1 35829.0 -0618.6  
817 9.5 35837.3 -0639.7  
818 9.5 35919.1 -0608.0  
819 9.9 35923.7 -0641.4  
820 9.5 35948.0 -0618.1  
821 9.6 40020.8 -0635.1  
822 7.0 40021.6 -0623.6  
823 9.0 40023.1 -0651.5

824 9.3 40059.7 -0603.8  
825 9.5 40124.8 -0601.0  
826 9.5 40136.8 -0603.5  
827 10. 40137.4 -0656.3  
828 9.5 40145.3 -0641.1  
829 8.9 40147.1 -0624.7  
830 9.7 40149.4 -0649.4  
831 9.0 40159.6 -0634.0  
832 9.3 40218.9 -0614.2  
833 9.4 40224.4 -0605.3

834 9.6 40226.8 -0603.0  
835 9.4 40231.6 -0629.6  
836 9.9 40255.1 -0635.1  
837 9.4 40257.4 -0606.2  
838 8.5 40304.5 -0626.5  
839 9.5 40305.0 -0614.8  
840 9.0 40424.1 -0620.8  
841 9.1 40505.7 -0624.2  
842 9.0 40525.6 -0653.2  
843 9.5 40539.9 -0623.3

844 9.5 40540.3 -0641.0  
845 10. 40541.7 -0655.8  
846 9.3 40545.6 -0618.9  
847 7.3 40550.4 -0645.2  
848 9.6 40554.9 -0630.2  
849 9.4 40628.3 -0629.7  
850 9.4 40642.1 -0622.1  
851 9.5 40705.9 -0631.5  
852 9.8 40706.7 -0626.7  
853 9.5 40700.2 -0637.7

854 9.8 40737.6 -0601.1  
855 9.8 40745.4 -0600.6  
856 10. 40801.6 -0652.0  
857 9.8 40815.3 -0652.5  
858 9.3 40846.4 -0607.6  
859 9.2 40851.0 -0615.0  
860 9.5 40926.6 -0630.7  
861 9.1 40932.4 -0608.3  
862 6.8 41014.1 -0649.5  
863 9.5 41017.7 -0602.5

-06 863 4h10m



-06 864 4h11m

864 9.2 41100.8 -0639.9  
865 9.6 41103.8 -0629.3  
866 9.8 41130.2 -0647.3  
867 9.1 41132.1 -0635.7  
868 9.7 41207.6 -0628.5  
869 9.8 41207.9 -0620.8  
870 8.7 41209.1 -0652.4  
871 9.9 41226.6 -0655.2  
872 9.0 41249.0 -0630.3  
873 9.1 41310.3 -0650.7

874 9.4 41317.5 -0653.0  
875 6.8 41332.2 -0635.2  
876 10.1 41339.5 -0652.4  
877 9.8 41344.8 -0620.8  
878 7.3 41423.9 -0625.0  
879 7.2 41432.3 -0637.8  
880 9.0 41433.8 -0622.1  
881 9.0 41439.4 -0616.4  
882 9.3 41439.5 -0605.1  
883 8.9 41444.1 -0651.2

884 9.5 41455.0 -0646.7  
885 8.9 41458.7 -0612.4  
886 9.3 41502.8 -0637.5  
887 9.9 41504.3 -0656.8  
888 10.1 41523.4 -0634.7  
889 9.5 41554.7 -0653.4  
890 9.5 41618.6 -0654.7  
891 9.9 41621.1 -0618.6  
892 10.1 41622.4 -0611.7  
893 9.4 41634.5 -0618.6

894 9.5 41653.8 -0654.3  
895 9.4 41706.0 -0632.8  
896 9.8 41718.0 -0625.5  
897 8.7 41720.7 -0654.5  
898 8.2 41737.2 -0601.7  
899 10.1 41802.2 -0601.1  
900 9.8 41803.0 -0621.5  
901 9.8 41805.3 -0606.3  
902 10.1 41824.6 -0648.4  
903 9.1 41828.9 -0657.5

904 9.3 41856.3 -0630.3  
905 10.1 41905.8 -0639.0  
906 8.0 41935.9 -0644.1  
907 9.9 41940.3 -0657.9  
908 9.5 41949.1 -0619.6  
909 9.3 42000.0 -0619.9  
910 9.5 42013.6 -0653.6  
911 7.9 42014.1 -0610.4  
912 9.5 42039.5 -0647.2  
913 10.1 42041.3 -0606.6

914 10.1 42055.3 -0601.7  
915 9.8 42132.6 -0627.2  
916 9.3 42156.1 -0622.1  
917 9.7 42249.4 -0616.7  
918 9.2 42255.1 -0620.0  
919 9.3 42302.5 -0655.7  
920 9.5 42306.0 -0630.1  
921 9.7 42307.6 -0604.4  
922 9.5 42337.7 -0653.8  
923 9.5 42406.6 -0627.1

924 10.1 42411.7 -0622.7  
925 9.8 42439.8 -0644.9  
926 9.8 42444.2 -0659.2  
927 10.1 42447.0 -0653.6  
928 9.8 42457.3 -0609.6  
929 9.0 42455.2 -0602.1  
930 9.1 42543.3 -0643.0  
931 8.8 42548.7 -0637.9  
932 9.5 42555.5 -0646.6  
933 9.8 42635.7 -0621.8

934 9.0 42646.3 -0633.0  
935 9.0 42647.2 -0649.3  
936 9.0 42648.3 -0639.9  
937 8.7 42656.2 -0631.3  
938 10.1 42722.7 -0655.0  
939 9.4 42729.7 -0651.4  
940 9.4 42733.6 -0646.6  
941 9.9 42744.6 -0616.0  
942 9.4 42755.7 -0655.3  
943 8.9 42827.2 -0623.5

944 9.7 42842.6 -0619.4  
945 9.1 42850.8 -0650.3  
946 9.5 42908.6 -0614.9  
947 9.5 43016.9 -0604.5  
948 10.1 43019.7 -0657.8  
949 9.4 43021.2 -0636.1  
950 10.1 43023.5 -0649.1  
951 9.5 43029.2 -0635.2  
952 9.5 43041.9 -0634.0  
953 8.5 43115.1 -0611.0

954 9.8 43152.4 -0603.8  
955 9.8 43221.3 -0642.9  
956 9.8 43232.3 -0602.3  
957 9.6 43257.2 -0657.3  
958 9.8 43302.7 -0620.2  
959 9.0 43329.5 -0612.4  
960 10.1 43354.6 -0615.9  
961 9.0 43414.0 -0648.1  
962 9.4 43445.5 -0633.1  
963 8.8 43446.3 -0629.4

964 9.8 43457.7 -0617.3  
965 9.5 43502.6 -0642.3  
966 9.5 43521.8 -0618.7  
967 9.6 43525.0 -0647.0  
968 9.0 43530.3 -0619.5  
969 6.8 43533.4 -0601.9  
970 7.8 43603.2 -0644.5  
971 8.6 43611.4 -0601.0  
972 9.7 43617.4 -0646.5  
973 9.7 43625.0 -0648.2

974 10.1 43625.1 -0625.1  
975 9.5 43634.1 -0651.2  
976 9.5 43701.8 -0622.1  
977 10.1 43705.8 -0646.9  
978 9.5 43720.8 -0619.2  
979 8.9 43722.6 -0629.9  
980 9.2 43728.9 -0626.9  
981 9.7 43741.7 -0617.5  
982 9.0 43746.4 -0600.3  
983 8.6 43754.7 -0619.5

984 9.6 43810.8 -0655.7  
985 9.6 43847.6 -0653.3  
986 8.8 43850.3 -0644.1  
987 9.8 43908.1 -0650.2  
988 10.1 43909.7 -0616.0  
989 9.4 43931.7 -0629.2  
990 10.1 43953.6 -0618.1  
991 9.5 44004.6 -0610.9  
992 9.0 44101.4 -0640.3  
993 9.1 44142.6 -0625.6

994 8.7 44144.9 -0606.1  
995 9.3 44203.0 -0630.2  
996 9.8 44214.4 -0608.2  
997 9.3 44234.7 -0618.2  
998 10.1 44237.8 -0636.5  
999 8.5 44238.0 -0653.7  
1000 7.8 44238.6 -0640.1  
1001 9.2 44250.8 -0651.8  
1002 9.7 44254.9 -0655.5  
1003 9.4 44356.8 -0617.6

1004 9.8 44358.7 -0651.6  
1005 9.5 44409.8 -0619.8  
1006 9.1 44411.5 -0604.6  
1007 9.5 44433.4 -0639.5  
1008 9.8 44459.0 -0627.2  
1009 9.8 44451.7 -0625.6  
1010 9.6 44516.3 -0620.9  
1011 8.2 44540.9 -0635.9  
1012 8.6 44542.0 -0631.8  
1013 9.5 44603.3 -0621.9

1014 10.1 44610.0 -0629.6  
1015 8.7 44613.2 -0636.2  
1016 9.5 44628.1 -0648.8  
1017 9.7 44636.0 -0623.1  
1018 10.1 44640.1 -0648.0  
1019 8.3 44711.4 -0649.7  
1020 9.1 44720.1 -0635.7  
1021 9.9 44752.7 -0616.0  
1022 10.1 44753.3 -0641.9  
1023 9.9 44822.5 -0608.6

1024 8.0 44828.6 -0620.5  
1025 8.6 44829.0 -0640.8  
1026 9.4 44840.3 -0652.8  
1027 9.5 44902.4 -0622.0  
1028 9.3 44937.9 -0602.8  
1029 9.5 44943.3 -0654.8  
1030 9.4 44949.5 -0641.9  
1031 9.7 44954.8 -0616.6  
1032 8.0 45002.4 -0645.6  
1033 9.5 45012.5 -0606.0

1034 8.6 45020.5 -0639.1  
1035 9.0 45028.7 -0613.5  
1036 9.4 45047.9 -0638.0  
1037 9.5 45048.2 -0612.0  
1038 7.5 45049.3 -0619.5  
1039 9.2 45121.5 -0602.3  
1040 8.8 45137.7 -0629.7  
1041 10.1 45151.1 -0642.3  
1042 10.1 45200.2 -0610.9  
1043 9.9 45204.7 -0611.1

1044 9.0 45217.5 -0600.0  
1045 9.4 45222.6 -0603.5  
1046 9.4 45228.2 -0635.7  
1047 9.5 45245.1 -0642.5  
1048 10.1 45248.0 -0636.3  
1049 9.5 45257.8 -0605.1  
1050 9.8 45304.3 -0617.0  
1051 8.0 45307.4 -0631.1  
1052 8.2 45314.3 -0624.5  
1053 9.5 45317.4 -0652.8

1054 9.8 45323.1 -0600.7  
1055 9.2 45327.7 -0612.3  
1056 9.5 45336.8 -0606.1  
1057 9.3 45337.9 -0617.9  
1058 8.8 45352.2 -0608.0  
1059 9.5 45401.0 -0656.7  
1060 9.5 45417.6 -0639.6  
1061 9.3 45427.0 -0600.0  
1062 9.8 45435.7 -0646.5  
1063 8.8 45439.9 -0650.8

1064 8.6 45455.5 -0639.2  
1065 9.8 45514.0 -0648.9  
1066 9.5 45522.8 -0637.7  
1067 9.8 45526.2 -0617.1  
1068 9.5 45530.5 -0600.8  
1069 9.5 45534.4 -0644.9  
1070 9.8 45542.7 -0611.6  
1071 8.5 45607.0 -0650.5  
1072 10.1 45632.9 -0622.1  
1073 8.4 45654.6 -0602.5

1074 10.1 45712.4 -0641.8  
1075 7.2 45712.7 -0614.4  
1076 9.4 45715.3 -0650.0  
1077 9.8 45715.6 -0626.9  
1078 9.9 45735.9 -0636.6  
1079 9.8 45742.5 -0624.4  
1080 9.8 45744.1 -0651.4  
1081 8.4 45801.7 -0643.6  
1082 9.8 45827.0 -0639.1  
1083 9.8 45827.9 -0619.6

1084 8.9 45837.2 -0610.0  
1085 9.4 45835.9 -0626.1  
1086 8.8 45719.2 -0630.8  
1087 9.0 45725.5 -0605.4  
1088 9.5 45732.9 -0642.7  
1089 10.1 45713.7 -0632.5  
1090 8.0 45758.6 -0623.7  
1091 9.3 45766.3 -0659.5  
1092 9.2 45737.5 -0616.1  
1093 9.8 45751.5 -0625.7

1094 8.0 45733.8 -0637.6  
1095 9.5 45716.5 -0601.0  
1096 9.3 45733.0 -0658.6  
1097 9.5 45727.0 -0643.9  
1098 9.5 45735.3 -0654.6  
1099 9.5 45717.2 -0652.8  
1100 9.4 45738.7 -0628.9  
1101 9.5 45738.0 -0644.4  
1102 9.5 45749.1 -0647.6  
1103 9.2 45755.8 -0633.6

1104 8.0 45803.6 -0612.1  
1105 9.0 45813.4 -0659.5  
1106 9.0 45817.5 -0602.6  
1107 9.0 45829.7 -0624.5  
1108 9.4 45837.9 -0639.8  
1109 6.5 45841.6 -0613.8  
1110 9.5 45859.3 -0629.2  
1111 10.1 45814.4 -0659.4  
1112 8.0 45845.3 -0655.5  
1113 9.0 45855.1 -0647.8

1114 9.0 45857.3 -0657.2  
1115 9.0 45707.1 -0642.1  
1116 9.3 45728.6 -0610.2  
1117 9.5 45732.1 -0640.9  
1118 9.5 45741.7 -0622.7  
1119 9.5 45802.1 -0614.7  
1120 9.5 45805.6 -0613.5  
1121 7.5 45806.3 -0658.4  
1122 10.1 45816.2 -0609.2  
1123 9.5 45842.3 -0647.8

1124 9.5 45844.0 -0603.3  
1125 9.3 45905.8 -0621.9  
1126 9.6 45906.5 -0606.4  
1127 8.7 45919.9 -0640.6  
1128 9.0 45932.0 -0645.0  
1129 9.0 45944.3 -0657.1  
1130 9.7 45948.5 -0625.7  
1131 9.5 451018.0 -0641.5  
1132 8.5 451039.1 -0647.3  
1133 9.0 451052.1 -0645.5

-06 1223 5h26m

1134 9.0 451056.7 -0635.5  
1135 9.0 451122.3 -0657.0  
1136 7.5 451128.7 -0623.8  
1137 9.2 451206.2 -0653.4  
1138 9.4 451209.1 -0647.8  
1139 9.5 451216.5 -0601.8  
1140 9.3 451236.6 -0616.6  
1141 8.5 451302.5 -0600.2  
1142 9.3 451309.6 -0618.5  
1143 9.0 451317.7 -0627.5

1144 9.0 451322.0 -0642.3  
1145 9.0 451322.1 -0634.7  
1146 9.0 451339.8 -0634.7  
1147 8.9 451348.3 -0631.7  
1148 9.3 451359.3 -0638.3  
1149 9.8 451406.7 -0631.1  
1150 9.3 451410.6 -0608.2  
1151 9.3 451415.2 -0653.4  
1152 9.5 451429.6 -0609.1  
1153 8.5 451449.2 -0650.1

1154 9.5 451509.7 -0635.4  
1155 9.0 451527.5 -0603.7  
1156 9.6 451543.8 -0632.2  
1157 9.3 451547.3 -0634.2  
1158 8.5 451555.2 -0651.1  
1159 9.5 451601.7 -0625.1  
1160 9.3 451621.6 -0625.3  
1161 9.3 451628.9 -0639.9  
1162 9.4 451631.8 -0635.5  
1163 8.5 451641.3 -0658.7

1164 9.5 451650.0 -0643.5  
1165 8.4 451654.4 -0601.7  
1166 8.1 451713.3 -0656.9  
1167 9.0 451724.6 -0617.7  
1168 9.5 451730.6 -0615.9  
1169 9.2 451737.6 -0622.2  
1170 10.1 451747.2 -0644.3  
1171 10.1 451800.1 -0641.4  
1172 9.5 451827.1 -0647.4  
1173 9.5 451839.3 -0655.9

1174 9.4 451849.6 -0624.8  
1175 7.5 451850.5 -0629.5  
1176 8.0 451851.5 -0607.5  
1177 9.0 451913.0 -0642.0  
1178 9.3 451915.7 -0631.9  
1179 9.5 451927.3 -0652.3  
1180 8.5 451938.8 -0637.5  
1181 9.0 451951.0 -0639.8  
1182 9.5 452008.2 -0647.9  
1183 9.5 452009.0 -0639.9

1184 9.0 452011.6 -0611.9  
1185 9.0 452021.7 -0645.2  
1186 9.5 452028.6 -0618.6  
1187 9.3 452039.4 -0654.1  
1188 9.5 452052.7 -0626.6  
1189 9.3 452117.6 -0610.4  
1190 9.4 452129.8 -0632.5  
1191 9.0 452136.8 -0633.8  
1192 8.5 452201.2 -0646.4  
1193 9.8 452206.3 -0616.3

1194 10.1 452219.4 -0606.3  
1195 9.6 452235.1 -0616.5  
1196 9.5 452254.3 -0651.8  
1197 9.0 452301.1 -0602.1  
1198 9.3 452305.1 -0642.9  
1199 9.2 452307.3 -0623.5  
1200 8.0 452311.1 -0606.1  
1201 9.1 452311.6 -0627.6  
1202 9.0 452322.2 -0619.9  
1203 9.5 452354.3 -0634.2

1204 8.0 452355.2 -0618.6  
1205 9.8 452400.5 -0647.7  
1206 9.5 452415.2 -0617.3  
1207 6.8 452418.2 -0649.1  
1208 9.5 452504.2 -0617.2  
1209 8.2 452504.7 -0649.0  
1210 9.3 452509.2 -0614.5  
1211 9.1 452512.5 -0630.7  
1212 8.5 452515.6 -0630.5  
1213 9.5 452518.5 -0649.6

1214 9.0 452522.3 -0624.4  
1215 9.0 452532.1 -0606.5  
1216 9.0 452537.5 -0659.7  
1217 8.9 452548.3 -0637.3  
1218 9.0 452548.4 -0636.4  
1219 9.5 452611.2 -0613.7  
1220 9.8 452612.6 -0630.7  
1221 10.1 452618.4 -0631.9  
1222 9.3 452621.5 -0649.4  
1223 9.2 452622.2 -0609.7



-06 1224 5h26m

1224 9.0 52622.8 -0638.6  
1225 9.0 52633.3 -0629.2  
1226 9.0 52650.1 -0643.6  
1227 8.5 52701.4 -0656.6  
1228 9.3 52709.4 -0658.5  
1229 9.5 52717.5 -0645.4  
1230 10. 52737.5 -0606.2  
1231 9.0 52743.0 -0606.2  
1232 9.7 52743.3 -0606.0  
1233 6.8 52754.5 -0606.2  
  
1234 5.4 52756.4 -0606.2  
1235 9.5 52758.7 -0622.6  
1236 9.5 52803.7 -0621.2  
1237 8.3 52804.5 -0601.7  
1238 8.5 52805.0 -0639.5  
1239 10. 52807.1 -0640.9  
1240 8.2 52810.7 -0607.8  
1241 3.0 52821.4 -0600.2  
1242 9.0 52829.7 -0611.1  
1243 9.5 52830.8 -0627.7  
  
1244 9.2 52838.3 -0650.7  
1245 9.1 52840.7 -0606.6  
1246 9.2 52844.2 -0647.1  
1247 8.5 52854.7 -0622.1  
1248 9.5 52859.4 -0656.5  
1249 9.5 52900.6 -0626.7  
1250 9.4 52901.6 -0625.3  
1251 10. 52903.0 -0629.8  
1252 9.3 52910.0 -0644.0  
1253 9.3 52923.2 -0648.4  
  
1254 8.3 52927.3 -0632.9  
1255 6.4 52929.7 -0609.7  
1256 9.5 52933.9 -0631.0  
1257 9.0 52954.7 -0615.1  
1258 9.7 53003.7 -0612.3  
1259 9.4 53009.2 -0640.2  
1260 9.8 53014.3 -0631.9  
1261 9.7 53018.7 -0606.9  
1262 6.7 53021.9 -0601.5  
1263 9.8 53038.1 -0639.6  
  
1264 9.0 53044.8 -0648.1  
1265 9.1 53045.5 -0634.3  
1266 9.8 53046.0 -0631.8  
1267 8.8 53048.3 -0649.0  
1268 9.5 53056.7 -0619.9  
1269 8.5 53058.2 -0629.5  
1270 9.3 53104.3 -0631.2  
1271 8.5 53114.7 -0613.7  
1272 9.5 53125.7 -0609.7  
1273 9.3 53127.1 -0630.6  
  
1274 8.8 53130.7 -0615.0  
1275 6.5 53135.1 -0639.6  
1276 10. 53138.2 -0643.0  
1277 8.4 53156.5 -0634.8  
1278 9.0 53157.8 -0610.4  
1279 9.1 53204.8 -0611.0  
1280 9.0 53241.5 -0638.1  
1281 9.0 53253.3 -0631.5  
1282 9.5 53304.2 -0646.1  
1283 9.2 53328.8 -0615.0  
  
1284 9.5 53342.4 -0655.5  
1285 9.5 53356.9 -0625.0  
1286 9.0 53425.3 -0650.5  
1287 9.5 53450.8 -0619.8  
1288 9.5 53507.8 -0609.2  
1289 9.9 53530.9 -0615.3  
1290 9.6 53532.8 -0626.0  
1291 9.1 53538.0 -0654.3  
1292 9.8 53546.0 -0652.7  
1293 6.5 53551.3 -0652.3  
  
1294 9.5 53610.9 -0626.2  
1295 9.5 53632.8 -0618.4  
1296 9.5 53639.0 -0631.5  
1297 8.5 53700.3 -0647.8  
1298 9.1 53701.4 -0629.6  
1299 9.5 53708.0 -0632.7  
1300 9.4 53715.2 -0641.1  
1301 8.5 53717.3 -0649.2  
1302 7.3 53721.5 -0655.4  
1303 9.5 53803.8 -0606.4  
  
1304 9.5 53825.8 -0615.8  
1305 9.8 53830.2 -0643.5  
1306 9.6 53831.3 -0647.4  
1307 9.5 53836.7 -0600.2  
1308 9.0 53905.8 -0611.7  
1309 9.2 53913.2 -0642.8  
1310 9.5 53942.7 -0600.6  
1311 8.8 54021.9 -0625.9  
1312 9.5 54030.5 -0655.7  
1313 7.7 54043.4 -0629.5

1314 8.5 54101.8 -0610.8  
1315 10. 54106.6 -0642.2  
1316 9.5 54111.8 -0612.2  
1317 8.0 54117.2 -0642.3  
1318 9.3 54125.2 -0647.7  
1319 9.6 54132.2 -0644.9  
1320 9.5 54142.0 -0645.0  
1321 9.5 54206.8 -0617.9  
1322 9.0 54224.1 -0638.7  
1323 8.5 54228.5 -0614.2  
  
1324 9.5 54244.0 -0657.4  
1325 9.5 54244.1 -0639.1  
1326 9.7 54250.6 -0651.8  
1327 9.9 54254.5 -0651.8  
1328 9.8 54315.7 -0656.3  
1329 9.5 54319.4 -0631.2  
1330 9.6 54323.0 -0636.0  
1331 9.5 54347.7 -0623.7  
1332 9.0 54349.8 -0616.1  
1333 9.5 54413.1 -0637.8  
  
1334 8.8 54433.2 -0641.3  
1335 8.8 54441.4 -0650.4  
1336 9.6 54445.6 -0652.3  
1337 8.9 54510.4 -0653.3  
1338 9.5 54535.1 -0638.1  
1339 9.2 54555.9 -0601.3  
1340 10. 54607.0 -0602.3  
1341 9.5 54608.4 -0631.2  
1342 9.4 54617.6 -0608.7  
1343 9.0 54627.0 -0626.6  
  
1344 8.0 54630.9 -0617.9  
1345 8.5 54639.7 -0635.7  
1346 9.5 54653.9 -0626.8  
1347 8.5 54701.3 -0647.1  
1348 8.8 54709.1 -0626.2  
1349 9.5 54709.7 -0606.2  
1350 9.5 54829.4 -0651.0  
1351 9.0 54908.3 -0647.8  
1352 9.5 54912.9 -0631.0  
1353 9.5 54938.1 -0601.6  
  
1354 8.5 55004.8 -0612.7  
1355 9.5 55014.7 -0600.6  
1356 9.5 55022.9 -0629.2  
1357 9.2 55024.8 -0624.4  
1358 9.5 55025.7 -0648.7  
1359 6.5 55036.7 -0606.4  
1360 8.8 55052.4 -0629.6  
1361 9.4 55108.0 -0648.4  
1362 9.7 55115.9 -0605.8  
1363 8.8 55120.4 -0652.2  
  
1364 9.3 55139.4 -0628.3  
1365 9.7 55143.5 -0654.0  
1366 9.4 55148.3 -0641.1  
1367 9.3 55150.1 -0648.9  
1368 9.5 55200.7 -0601.5  
1369 9.5 55204.7 -0601.1  
1370 9.5 55214.4 -0628.7  
1371 9.5 55216.9 -0626.5  
1372 7.0 55246.2 -0636.2  
1373 9.4 55304.2 -0626.0  
  
1374 9.5 55317.1 -0630.8  
1375 9.0 55322.7 -0658.9  
1376 10. 55337.7 -0606.8  
1377 9.3 55346.5 -0651.8  
1378 9.3 55406.8 -0612.1  
1379 9.5 55432.2 -0638.3  
1380 9.5 55442.9 -0628.6  
1381 8.5 55501.5 -0649.0  
1382 9.0 55505.8 -0613.4  
1383 9.5 55508.7 -0603.1  
  
1384 8.5 55523.4 -0647.2  
1385 10. 55555.5 -0624.7  
1386 9.0 55602.6 -0635.7  
1387 8.2 55623.4 -0624.1  
1388 9.5 55626.0 -0607.7  
1389 9.3 55647.3 -0639.2  
1390 9.0 55659.9 -0644.5  
1391 6.7 55710.8 -0642.3  
1392 9.5 55711.0 -0654.9  
1393 9.0 55711.5 -0639.4  
  
1394 9.5 55715.8 -0607.1  
1395 9.0 55721.7 -0602.6  
1396 9.3 55728.3 -0641.0  
1397 9.0 55728.9 -0620.0  
1398 10. 55744.3 -0640.9  
1399 9.2 55754.7 -0602.3  
1400 9.2 55757.2 -0605.9  
1401 9.7 55827.1 -0630.8  
1402 9.0 55834.7 -0602.2  
1403 9.0 55836.3 -0637.1

1404 8.5 55838.0 -0605.7  
1405 8.5 55844.5 -0620.1  
1406 10. 55849.9 -0614.6  
1407 8.0 55854.8 -0637.4  
1408 9.5 55927.3 -0639.1  
1409 9.5 55955.0 -0624.9  
1410 9.5 55960.1 -0656.0  
1411 9.5 55943.9 -0633.4  
1412 6.0 55953.8 -0612.0  
1413 9.5 60007.3 -0642.2  
  
1414 9.5 60027.6 -0624.6  
1415 9.5 60028.6 -0623.7  
1416 9.5 60051.4 -0644.4  
1417 9.0 60059.8 -0612.1  
1418 9.0 60100.8 -0621.0  
1419 8.9 60112.6 -0651.2  
1420 8.8 60120.0 -0631.2  
1421 9.6 60120.8 -0634.1  
1422 9.0 60138.2 -0637.2  
1423 9.3 60143.9 -0624.0  
  
1424 7.0 60146.4 -0648.3  
1425 9.5 60148.7 -0657.7  
1426 9.5 60152.3 -0640.8  
1427 9.3 60204.5 -0633.2  
1428 9.2 60209.9 -0622.1  
1429 9.5 60218.3 -0639.9  
1430 9.9 60225.5 -0626.2  
1431 9.0 60226.9 -0618.1  
1432 7.5 60228.2 -0631.0  
1433 9.8 60240.5 -0616.9  
  
1434 9.5 60246.6 -0657.3  
1435 9.5 60247.9 -0623.5  
1436 9.5 60314.8 -0618.6  
1437 9.5 60334.0 -0640.9  
1438 9.8 60353.2 -0659.9  
1439 6.3 60359.2 -0643.8  
1440 20.0 60401.7 -0610.9  
1441 8.5 60409.3 -0652.3  
1442 8.0 60431.1 -0656.3  
1443 9.5 60442.4 -0646.0  
  
1444 9.7 60444.8 -0607.3  
1445 9.0 60448.3 -0626.2  
1446 5.2 60448.5 -0631.5  
1447 9.8 60450.5 -0652.3  
1448 9.5 60514.9 -0622.1  
1449 9.5 60532.3 -0619.8  
1450 9.3 60533.2 -0642.6  
1451 9.4 60551.4 -0650.0  
1452 9.5 60556.0 -0630.4  
1453 9.0 60603.1 -0619.6  
  
1454 10. 60606.4 -0619.9  
1455 9.4 60612.3 -0644.2  
1456 8.4 60612.9 -0622.0  
1457 9.5 60614.2 -0640.6  
1458 10. 60616.4 -0650.7  
1459 9.5 60619.7 -0603.7  
1460 9.0 60634.8 -0609.1  
1461 8.0 60653.3 -0646.9  
1462 9.5 60653.8 -0614.9  
1463 8.5 60721.9 -0648.7  
  
1464 9.5 60726.9 -0639.4  
1465 9.2 60727.0 -0635.2  
1466 9.5 60730.7 -0621.1  
1467 9.0 60735.3 -0632.4  
1468 10. 60739.9 -0629.7  
1469 4.5 60746.1 -0613.8  
1470 8.9 60755.4 -0648.6  
1471 9.8 60801.7 -0643.9  
1472 8.8 60810.2 -0618.8  
1473 8.9 60819.0 -0607.2  
  
1474 10. 60830.9 -0628.1  
1475 8.0 60842.1 -0609.7  
1476 9.8 60914.0 -0654.4  
1477 8.7 60919.1 -0608.2  
1478 8.5 60922.5 -0655.6  
1479 9.5 60932.8 -0644.0  
1480 9.5 60939.3 -0622.9  
1481 9.3 60950.4 -0657.9  
1482 8.3 61000.4 -0604.0  
1483 9.1 61000.5 -0643.8  
  
1484 9.8 61001.9 -0628.4  
1485 8.3 61006.1 -0611.8  
1486 9.1 61047.6 -0637.7  
1487 7.0 61105.7 -0640.6  
1488 9.0 61106.8 -0646.2  
1489 10. 61131.5 -0655.3  
1490 9.2 61145.4 -0605.1  
1491 9.0 61222.1 -0624.1  
1492 10. 61225.6 -0622.8  
1493 9.4 61232.4 -0633.3

1494 9.8 61232.5 -0619.2  
1495 8.8 61241.6 -0645.2  
1496 10. 61246.6 -0621.4  
1497 9.5 61254.5 -0628.7  
1498 9.3 61302.6 -0633.3  
1499 9.4 61311.3 -0645.0  
1500 10. 61316.6 -0604.3  
1501 9.7 61319.5 -0628.4  
1502 9.5 61320.1 -0602.2  
1503 9.8 61329.8 -0609.1  
  
1504 9.0 61339.0 -0615.6  
1505 9.3 61343.9 -0632.0  
1506 9.4 61344.7 -0631.9  
1507 8.2 61356.1 -0637.7  
1508 9.0 61359.6 -0601.1  
1509 9.7 61407.5 -0631.1  
1510 9.4 61407.6 -0636.8  
1511 9.0 61412.8 -0643.3  
1512 9.9 61424.1 -0619.6  
1513 9.5 61432.1 -0648.1  
  
1514 10. 61434.2 -0607.5  
1515 9.8 61440.8 -0628.3  
1516 9.8 61443.0 -0630.1  
1517 9.0 61453.6 -0622.7  
1518 9.6 61455.5 -0656.4  
1519 10. 61456.4 -0604.0  
1520 9.9 61457.8 -0613.1  
1521 9.8 61508.6 -0603.3  
1522 10. 61512.5 -0630.9  
1523 9.8 61513.3 -0608.6  
  
1524 10. 61514.4 -0626.8  
1525 10. 61554.0 -0635.1  
1526 8.4 61556.8 -0628.0  
1527 9.0 61611.0 -0620.9  
1528 9.8 61616.1 -0656.0  
1529 9.4 61630.6 -0645.0  
1530 9.5 61633.1 -0658.7  
1531 9.5 61646.2 -0640.7  
1532 9.2 61704.9 -0630.3  
1533 9.3 61708.2 -0629.9  
  
1534 9.8 61720.2 -0607.8  
1535 8.3 61733.4 -0648.9  
1536 9.2 61745.0 -0653.1  
1537 9.0 61746.8 -0611.2  
1538 9.9 61804.5 -0617.0  
1539 9.6 61836.1 -0655.3  
1540 9.8 61851.9 -0614.8  
1541 9.0 61853.5 -0628.5  
1542 8.5 61854.2 -0607.6  
1543 9.0 61855.9 -0617.0  
  
1544 9.6 61901.1 -0634.7  
1545 9.6 61902.5 -0620.8  
1546 9.4 61907.0 -0624.9  
1547 9.5 61907.6 -0620.8  
1548 9.8 61912.2 -0607.4  
1549 9.8 61932.7 -0627.9  
1550 9.8 61943.5 -0652.8  
1551 9.3 61948.7 -0641.3  
1552 9.8 61951.0 -0657.1  
1553 9.8 61953.0 -0653.3  
  
1554 9.3 61955.2 -0643.7  
1555 9.6 62013.7 -0610.7  
1556 9.1 62014.5 -0627.9  
1557 9.2 62033.2 -0608.0  
1558 10. 62036.6 -0603.5  
1559 9.3 62041.2 -0605.5  
1560 8.9 62047.3 -0612.5  
1561 9.4 62055.4 -0651.5  
1562 10. 62101.9 -0607.5  
1563 9.3 62102.3 -0634.5  
  
1564 8.8 62102.6 -0649.9  
1565 9.8 62117.1 -0601.2  
1566 9.4 62118.7 -0641.3  
1567 9.5 62119.2 -0611.3  
1568 8.1 62123.1 -0627.6  
1569 9.5 62130.1 -0606.7  
1570 8.7 62142.0 -0652.7  
1571 9.3 62143.3 -0635.2  
1572 9.7 62145.2 -0636.8  
1573 9.4 62145.2 -0641.2  
  
1574 5.5 62147.9 -0654.7  
1575 5.5 62148.9 -0656.8  
1576 9.3 62200.8 -0624.3  
1577 9.5 62210.0 -0607.8  
1578 9.5 62215.2 -0642.0  
1579 10. 62223.1 -0600.4  
1580 10. 62226.0 -0616.6  
1581 9.0 62231.7 -0658.0  
1582 9.4 62237.6 -0647.5  
1583 9.6 62238.7 -0636.8

-06 1583 6h22m



-06 1584 6h22m

1584 9.4 62250.6 -0603.0  
1585 7.8 62313.5 -0620.1  
1586 9.3 62329.1 -0659.1  
1587 9.3 62337.9 -0632.1  
1588 9.5 62348.7 -0640.2  
1589 9.5 62354.9 -0651.1  
1590 10. 62355.4 -0614.0  
1591 9.8 62403.6 -0635.2  
1592 9.8 62411.9 -0635.1  
1593 9.1 62425.8 -0608.0

1594 10. 62428.9 -0613.7  
1595 8.8 62442.5 -0652.6  
1596 9.5 62449.8 -0655.7  
1597 9.0 62450.6 -0620.3  
1598 8.7 62532.2 -0623.2  
1599 9.2 62533.8 -0626.1  
1600 9.4 62545.4 -0626.0  
1601 9.5 62549.9 -0628.4  
1602 9.8 62625.7 -0643.2  
1603 9.1 62632.2 -0639.5

1604 9.3 62642.4 -0626.5  
1605 8.6 62643.1 -0627.5  
1606 9.0 62647.0 -0600.2  
1607 9.3 62653.2 -0648.7  
1608 10. 62654.0 -0638.0  
1609 9.3 62657.9 -0651.1  
1610 10. 62702.0 -0633.8  
1611 8.9 62705.2 -0631.8  
1612 9.8 62705.9 -0614.8  
1613 9.7 62717.6 -0633.6

1614 9.8 62728.7 -0640.0  
1615 9.8 62737.1 -0620.7  
1616 8.5 62738.9 -0602.2  
1617 9.7 62740.6 -0603.3  
1618 9.1 62745.6 -0634.6  
1619 9.5 62803.6 -0634.3  
1620 9.4 62804.0 -0613.8  
1621 9.2 62830.1 -0624.7  
1622 9.5 62833.5 -0654.3  
1623 9.5 62836.0 -0608.1

1624 9.7 62836.2 -0603.5  
1625 9.7 62849.1 -0625.2  
1626 9.4 62933.8 -0638.9  
1627 10. 62934.9 -0612.1  
1628 9.1 62937.0 -0615.3  
1629 8.7 62941.9 -0645.7  
1630 9.8 62950.4 -0651.5  
1631 9.7 62950.4 -0617.5  
1632 9.4 62953.2 -0606.1  
1633 10. 62956.6 -0635.4

1634 10. 62956.6 -0638.6  
1635 10. 62958.3 -0612.1  
1636 9.8 63013.7 -0603.5  
1637 9.4 63022.1 -0602.2  
1638 10. 63034.5 -0621.8  
1639 9.3 63046.3 -0648.4  
1640 9.5 63048.3 -0628.7  
1641 8.7 63049.4 -0657.5  
1642 9.5 63110.9 -0642.0  
1643 9.1 63118.4 -0651.2

1644 9.5 63119.8 -0634.5  
1645 9.5 63129.0 -0655.2  
1646 9.8 63129.1 -0623.7  
1647 10. 63137.3 -0611.2  
1648 9.7 63138.6 -0634.3  
1649 9.6 63147.2 -0641.4  
1650 9.6 63209.5 -0636.8  
1651 9.0 63211.6 -0658.4  
1652 9.9 63213.9 -0636.6  
1653 9.5 63217.0 -0607.8

1654 9.2 63217.4 -0635.0  
1655 9.0 63228.1 -0658.6  
1656 9.7 63229.4 -0633.3  
1657 9.8 63232.2 -0629.2  
1658 8.5 63236.1 -0620.5  
1659 9.1 63238.9 -0651.4  
1660 9.4 63244.4 -0625.2  
1661 9.5 63246.7 -0632.2  
1662 9.8 63302.7 -0642.6  
1663 9.7 63311.9 -0611.4

1664 7.3 63314.4 -0613.1  
1665 9.1 63326.2 -0604.0  
1666 9.5 63344.5 -0619.6  
1667 9.5 63344.8 -0635.3  
1668 9.4 63352.3 -0647.4  
1669 9.2 63359.0 -0653.0  
1670 9.7 63400.4 -0635.6  
1671 9.9 63400.8 -0627.1  
1672 9.4 63402.3 -0621.6  
1673 10. 63403.8 -0633.9

1674 9.8 63410.0 -0639.6  
1675 9.0 63411.1 -0631.0  
1676 9.8 63412.3 -0647.5  
1677 9.4 63413.7 -0655.6  
1678 9.4 63416.2 -0602.6  
1679 8.5 63424.5 -0600.6  
1680 10. 63428.3 -0612.0  
1681 9.5 63438.1 -0632.7  
1682 8.5 63443.6 -0601.5  
1683 9.4 63445.7 -0606.8

1684 8.7 63504.4 -0624.0  
1685 9.5 63518.9 -0653.3  
1686 9.5 63522.7 -0646.3  
1687 9.8 63526.9 -0621.3  
1688 9.3 63538.0 -0658.1  
1689 10. 63539.7 -0628.4  
1690 10. 63540.6 -0605.1  
1691 9.1 63542.9 -0614.2  
1692 10. 63543.4 -0602.8  
1693 9.5 63551.2 -0633.9

1694 9.8 63552.4 -0638.0  
1695 9.8 63554.6 -0600.3  
1696 9.7 63556.6 -0626.5  
1697 8.7 63603.0 -0638.0  
1698 9.4 63606.3 -0636.9  
1699 9.8 63609.5 -0658.6  
1700 9.5 63613.9 -0634.9  
1701 9.3 63628.8 -0651.6  
1702 10. 63636.1 -0645.0  
1703 10. 63640.4 -0636.8

1704 10. 63647.2 -0635.7  
1705 8.7 63647.7 -0646.4  
1706 9.4 63706.1 -0643.0  
1707 10. 63706.2 -0658.9  
1708 9.4 63710.7 -0606.8  
1709 9.0 63714.5 -0659.5  
1710 9.9 63724.0 -0650.7  
1711 9.1 63728.8 -0608.1  
1712 9.4 63735.9 -0652.5  
1713 9.4 63758.2 -0606.5

1714 9.5 63800.1 -0629.6  
1715 9.8 63803.7 -0637.9  
1716 9.8 63804.4 -0646.0  
1717 9.5 63806.3 -0644.9  
1718 9.4 63809.5 -0637.7  
1719 9.5 63812.7 -0605.2  
1720 9.8 63814.7 -0606.2  
1721 9.2 63821.7 -0604.9  
1722 9.5 63824.6 -0641.7  
1723 9.9 63824.8 -0606.0

1724 9.0 63826.7 -0659.1  
1725 9.5 63829.2 -0644.6  
1726 10. 63835.9 -0636.0  
1727 10. 63847.9 -0634.1  
1728 8.2 63852.0 -0645.4  
1729 9.8 63857.3 -0649.1  
1730 9.8 63900.5 -0654.2  
1731 9.3 63904.4 -0629.9  
1732 9.2 63914.5 -0616.7  
1733 9.3 63925.1 -0627.6

1734 8.5 63933.7 -0624.8  
1735 9.4 63959.6 -0640.0  
1736 9.8 64012.5 -0634.1  
1737 9.8 64017.0 -0646.8  
1738 9.8 64017.1 -0642.4  
1739 9.5 64026.7 -0602.9  
1740 9.0 64100.5 -0614.5  
1741 9.1 64101.3 -0618.7  
1742 9.5 64103.2 -0633.8  
1743 9.4 64105.1 -0636.0

1744 9.8 64108.1 -0636.2  
1745 10. 64110.4 -0611.5  
1746 9.8 64120.8 -0653.3  
1747 9.8 64128.2 -0627.6  
1748 9.5 64142.1 -0609.1  
1749 9.5 64150.6 -0636.0  
1750 9.4 64201.1 -0618.2  
1751 9.8 64201.8 -0640.0  
1752 9.0 64210.6 -0622.2  
1753 9.0 64219.2 -0601.1

1754 9.8 64228.7 -0642.7  
1755 8.7 64228.9 -0626.1  
1756 8.5 64229.2 -0658.9  
1757 9.4 64230.3 -0657.2  
1758 9.0 64235.3 -0606.9  
1759 9.0 64241.0 -0614.3  
1760 9.0 64303.0 -0638.0  
1761 9.5 64307.1 -0656.7  
1762 9.3 64310.2 -0658.4  
1763 8.8 64315.1 -0619.4

1764 8.2 64315.9 -0601.5  
1765 9.3 64332.9 -0633.1  
1766 9.5 64336.3 -0633.5  
1767 9.6 64337.3 -0647.8  
1768 10. 64344.2 -0652.2  
1769 9.4 64345.4 -0601.0  
1770 9.3 64347.7 -0623.0  
1771 8.7 64352.5 -0656.2  
1772 9.3 64410.8 -0656.3  
1773 9.8 64422.2 -0649.2

1774 8.7 64423.2 -0623.5  
1775 7.3 64430.0 -0647.8  
1776 10. 64439.6 -0655.2  
1777 10. 64440.1 -0630.0  
1778 10. 64446.0 -0647.4  
1779 9.5 64448.8 -0654.6  
1780 9.8 64450.5 -0654.0  
1781 9.6 64500.6 -0652.5  
1782 10. 64503.5 -0613.6  
1783 9.9 64503.9 -0615.5

1784 10. 64505.4 -0608.9  
1785 9.5 64507.6 -0619.3  
1786 9.1 64508.0 -0657.2  
1787 8.1 64508.1 -0617.2  
1788 9.4 64512.3 -0619.3  
1789 10. 64519.8 -0655.2  
1790 10. 64525.3 -0647.4  
1791 10. 64540.5 -0620.5  
1792 9.1 64541.6 -0642.2  
1793 10. 64553.6 -0629.4

1794 10. 64602.7 -0601.4  
1795 8.5 64610.0 -0634.6  
1796 9.0 64612.1 -0647.1  
1797 9.8 64624.6 -0620.3  
1798 9.5 64630.6 -0617.1  
1799 9.0 64638.3 -0647.7  
1800 9.1 64640.4 -0653.7  
1801 9.8 64654.3 -0627.9  
1802 9.2 64657.2 -0636.9  
1803 8.7 64658.4 -0644.6

1804 8.8 64705.0 -0655.8  
1805 9.0 64705.8 -0607.5  
1806 9.0 64707.8 -0612.0  
1807 8.8 64713.6 -0602.0  
1808 8.0 64714.4 -0612.7  
1809 9.1 64714.7 -0626.2  
1810 9.4 64724.8 -0613.6  
1811 9.1 64735.5 -0644.0  
1812 9.0 64737.8 -0626.6  
1813 9.4 64740.7 -0632.1

1814 9.0 64742.9 -0611.9  
1815 9.7 64755.7 -0658.8  
1816 9.1 64758.4 -0637.9  
1817 8.5 64801.0 -0627.3  
1818 9.6 64803.8 -0642.4  
1819 10. 64803.9 -0637.0  
1820 9.3 64810.3 -0605.8  
1821 8.8 64812.7 -0653.8  
1822 10. 64816.2 -0622.5  
1823 9.8 64817.5 -0639.7

1824 10. 64833.9 -0639.3  
1825 10. 64834.2 -0603.5  
1826 10. 64837.3 -0605.0  
1827 9.8 64845.1 -0608.2  
1828 10. 64846.3 -0634.8  
1829 9.6 64854.2 -0627.2  
1830 10. 64858.7 -0630.1  
1831 8.8 64907.3 -0656.0  
1832 10. 64916.6 -0645.4  
1833 9.5 64924.0 -0643.8

1834 9.5 64929.7 -0641.2  
1835 9.8 64933.7 -0603.0  
1836 9.0 64934.9 -0609.5  
1837 9.5 64939.1 -0656.9  
1838 9.1 64953.2 -0600.3  
1839 9.8 64954.5 -0616.1  
1840 9.2 64956.7 -0602.0  
1841 9.6 64959.5 -0615.8  
1842 9.6 65004.8 -0608.3  
1843 9.3 65010.2 -0620.2

1844 9.8 65010.7 -0625.8  
1845 9.8 65013.6 -0639.2  
1846 9.8 65019.1 -0646.1  
1847 9.4 65024.0 -0628.6  
1848 8.8 65049.5 -0616.5  
1849 9.7 65053.2 -0630.2  
1850 9.3 65059.2 -0622.4  
1851 9.7 65101.9 -0632.3  
1852 10. 65104.6 -0647.8  
1853 9.8 65107.4 -0622.2

-06 1943 7h01m

1854 9.1 65110.7 -0649.9  
1855 8.7 65126.1 -0619.0  
1856 9.0 65128.7 -0624.8  
1857 9.5 65132.0 -0641.6  
1858 9.4 65132.4 -0610.5  
1859 7.5 65134.7 -0659.2  
1860 9.8 65139.1 -0616.6  
1861 9.0 65140.9 -0610.2  
1862 9.0 65157.7 -0655.2  
1863 9.1 65207.3 -0654.6

1864 10. 65214.6 -0612.3  
1865 10. 65234.7 -0630.3  
1866 9.8 65255.6 -0650.5  
1867 9.0 65301.3 -0657.7  
1868 9.3 65307.4 -0636.3  
1869 8.8 65312.2 -0631.3  
1870 8.9 65314.7 -0657.5  
1871 9.8 65331.1 -0520.0  
1872 8.2 65337.2 -0514.5  
1873 9.5 65339.1 -0644.8

1874 9.0 65347.9 -0643.7  
1875 9.0 65350.3 -0644.9  
1876 9.7 65351.8 -0625.0  
1877 10. 65353.8 -0633.2  
1878 9.2 65357.1 -0631.2  
1879 10. 65407.5 -0655.2  
1880 9.3 65413.4 -0611.9  
1881 9.5 65414.3 -0640.9  
1882 10. 65420.0 -0608.0  
1883 9.4 65423.9 -0623.0

1884 9.5 65424.7 -0611.8  
1885 8.7 65426.5 -0641.6  
1886 9.3 65429.9 -0621.1  
1887 8.2 65430.2 -0604.6  
1888 9.5 65448.0 -0612.0  
1889 8.7 65448.1 -0650.5  
1890 10. 65449.8 -0603.6  
1891 9.0 65456.6 -0644.6  
1892 9.1 65500.1 -0602.4  
1893 9.5 65501.2 -0622.2

1894 9.2 65501.6 -0600.8  
1895 9.4 65508.2 -0606.0  
1896 9.8 65523.4 -0633.3  
1897 9.4 65531.9 -0635.3  
1898 9.8 65534.4 -0640.0  
1899 9.6 65535.3 -0608.4  
1900 8.7 65535.7 -0648.4  
1901 9.5 65537.6 -0619.5  
1902 9.0 65540.8 -0635.0  
1903 8.5 65544.2 -0649.1

1904 8.7 65607.3 -0640.9  
1905 9.8 65617.8 -0623.7  
1906 10. 65621.0 -0639.7  
1907 9.4 65627.0 -0643.5  
1908 8.8 65629.0 -0628.4  
1909 9.8 65629.5 -0625.0  
1910 9.2 65630.1 -0607.4  
1911 8.2 65632.5 -0642.4  
1912 10. 65651.5 -0653.8  
1913 9.8 65653.6 -0601.2

1914 9.3 65655.9 -0656.9  
1915 9.1 65656.9 -0601.8  
1916 10. 65716.6 -0620.3  
1917 9.6 65724.8 -0635.2  
1918 8.8 65736.4 -0638.0  
1919 9.3 65740.5 -0613.8  
1920 9.5 65742.3 -0625.8  
1921 9.1 65818.7 -0659.5  
1922 9.2 65829.8 -0635.2  
1923 10. 65847.3 -0601.7

1924 9.4 65852.1 -0650.1  
1925 9.0 65902.7 -0624.6  
1926 9.2 65938.0 -0629.2  
1927 9.8 65946.9 -0639.4  
1928 9.2 65950.1 -0648.7  
1929 9.8 70001.2 -0627.5  
1930 9.5 70003.4 -0658.3  
1931 9.0 70005.6 -0649.2  
1932 9.8 70016.6 -0621.0  
1933 9.5 70023.1 -0650.0

1934 9.5 70040.7 -0633.1  
1935 9.3 70049.5 -0653.2  
1936 10. 70054.8 -0655.0  
1937 10. 70055.3 -0651.6  
1938 9.8 70105.2 -0633.1  
1939 9.9 70116.0 -0659.4  
1940 9.1 70128.2 -0624.7  
1941 9.3 70129.2 -0628.9  
1942 10. 70136.1 -0658.8  
1943 9.7 70136.8 -0635.3



-06 1944 7h01m

1944 9.1 70150.5 -0643.3  
1945 9.4 70201.7 -0649.9  
1946 9.4 70202.5 -0652.3  
1947 9.0 70208.9 -0614.0  
1948 8.7 70212.7 -0649.6  
1949 9.5 70216.4 -0659.7  
1950 9.9 70216.5 -0651.7  
1951 9.1 70222.7 -0648.7  
1952 9.0 70223.2 -0606.1  
1953 10. 70224.1 -0609.0

1954 9.0 70229.5 -0630.2  
1955 8.7 70235.1 -0655.1  
1956 9.6 70246.8 -0622.4  
1957 9.3 70303.6 -0620.0  
1958 8.5 70304.8 -0659.6  
1959 10. 70305.1 -0609.9  
1960 9.8 70306.7 -0657.6  
1961 9.0 70307.6 -0611.1  
1962 9.0 70307.6 -0602.9  
1963 10. 70314.0 -0617.8

1964 9.3 70316.6 -0626.6  
1965 8.9 70317.1 -0649.1  
1966 9.4 70343.2 -0628.7  
1967 9.3 70346.9 -0637.0  
1968 9.0 70349.8 -0606.9  
1969 9.6 70350.1 -0631.9  
1970 9.3 70356.6 -0620.8  
1971 10. 70358.7 -0649.8  
1972 9.2 70405.9 -0656.6  
1973 8.7 70414.7 -0642.6

1974 9.2 70415.3 -0631.7  
1975 9.9 70435.0 -0628.2  
1976 9.7 70436.1 -0636.6  
1977 9.5 70446.9 -0642.3  
1978 8.6 70449.3 -0619.7  
1979 9.0 70449.8 -0613.0  
1980 9.1 70455.4 -0613.6  
1981 9.4 70455.9 -0612.9  
1982 9.1 70520.2 -0625.0  
1983 8.9 70523.5 -0659.6

1984 9.1 70526.0 -0618.3  
1985 9.0 70529.0 -0631.5  
1986 10. 70532.8 -0639.9  
1987 9.7 70536.7 -0652.1  
1988 9.8 70539.0 -0651.0  
1989 7.9 70546.9 -0654.5  
1990 10. 70556.4 -0659.8  
1991 9.0 70600.1 -0654.1  
1992 9.8 70606.3 -0628.4  
1993 9.2 70612.2 -0601.6

1994 8.8 70615.8 -0611.3  
1995 9.3 70621.7 -0657.3  
1996 9.4 70625.4 -0639.5  
1997 9.8 70634.3 -0616.6  
1998 9.3 70636.2 -0606.3  
1999 9.8 70640.9 -0638.9  
2000 9.0 70646.5 -0648.5  
2001 9.0 70650.9 -0624.2  
2002 9.4 70651.6 -0630.2  
2003 9.6 70655.2 -0601.5

2004 9.4 70655.8 -0657.3  
2005 9.8 70707.6 -0650.1  
2006 10. 70708.2 -0608.8  
2007 10. 70729.9 -0640.8  
2008 9.5 70730.5 -0616.6  
2009 9.0 70740.1 -0623.5  
2010 9.2 70750.6 -0652.9  
2011 9.8 70752.8 -0646.0  
2012 9.4 70758.1 -0653.1  
2013 9.1 70801.5 -0647.7

2014 9.5 70803.7 -0601.6  
2015 9.2 70813.2 -0641.5  
2016 8.6 70830.3 -0649.9  
2017 9.5 70836.7 -0618.0  
2018 9.0 70848.6 -0620.6  
2019 8.8 70849.3 -0630.6  
2020 9.8 70853.2 -0643.5  
2021 9.1 70856.7 -0655.7  
2022 9.8 70858.6 -0621.8  
2023 9.3 70911.8 -0607.5

2024 9.0 70912.0 -0619.9  
2025 8.7 70920.5 -0642.5  
2026 10. 70934.7 -0633.5  
2027 9.3 70945.5 -0642.8  
2028 8.8 70949.6 -0604.5  
2029 8.6 70951.8 -0647.1  
2030 8.7 70954.2 -0655.6  
2031 8.7 71000.3 -0636.6  
2032 6.3 71026.8 -0625.5  
2033 10. 71054.3 -0618.6

2034 10. 71059.4 -0621.2  
2035 9.1 71109.2 -0652.8  
2036 9.8 71110.2 -0638.5  
2037 10. 71112.5 -0658.7  
2038 9.8 71116.8 -0653.5  
2039 9.8 71123.7 -0648.7  
2040 9.7 71129.5 -0612.8  
2041 9.7 71133.5 -0623.4  
2042 9.4 71136.4 -0615.2  
2043 9.6 71141.4 -0612.8

2044 9.3 71142.7 -0603.6  
2045 9.8 71149.0 -0643.9  
2046 10. 71153.3 -0605.0  
2047 9.5 71208.4 -0600.6  
2048 9.8 71213.5 -0624.1  
2049 9.5 71232.9 -0638.4  
2050 9.5 71236.2 -0653.0  
2051 9.4 71244.8 -0612.5  
2052 9.1 71259.7 -0657.1  
2053 10. 71305.5 -0653.7

2054 9.8 71309.4 -0626.0  
2055 9.7 71319.5 -0629.8  
2056 9.0 71319.7 -0609.5  
2057 8.0 71325.4 -0620.0  
2058 9.8 71326.2 -0652.1  
2059 9.3 71339.2 -0651.0  
2060 9.5 71348.2 -0634.6  
2061 9.5 71406.1 -0646.3  
2062 9.3 71409.8 -0646.5  
2063 9.8 71414.0 -0659.2

2064 9.0 71414.4 -0601.7  
2065 8.7 71423.0 -0637.3  
2066 9.5 71425.5 -0620.0  
2067 9.0 71425.7 -0607.9  
2068 9.5 71427.9 -0649.6  
2069 9.4 71430.3 -0656.1  
2070 9.5 71436.1 -0605.4  
2071 10. 71440.2 -0600.9  
2072 9.0 71445.3 -0624.1  
2073 9.1 71458.5 -0620.2

2074 9.0 71500.5 -0622.2  
2075 9.3 71502.3 -0609.7  
2076 5.1 71506.7 -0659.9  
2077 9.1 71525.4 -0636.0  
2078 9.0 71528.2 -0628.9  
2079 9.8 71534.3 -0631.1  
2080 10. 71535.2 -0628.9  
2081 9.8 71541.1 -0656.2  
2082 9.5 71546.6 -0649.6  
2083 9.0 71557.1 -0649.4

2084 8.8 71618.8 -0622.0  
2085 9.4 71624.4 -0627.7  
2086 9.8 71630.9 -0624.3  
2087 9.8 71647.4 -0620.0  
2088 9.5 71648.4 -0610.5  
2089 9.5 71649.6 -0602.7  
2090 8.8 71655.1 -0646.3  
2091 9.8 71700.0 -0622.2  
2092 9.8 71707.3 -0613.0  
2093 9.5 71716.8 -0611.9

2094 9.8 71721.2 -0651.7  
2095 9.3 71724.9 -0626.4  
2096 9.5 71725.5 -0635.9  
2097 9.2 71729.3 -0614.4  
2098 9.6 71734.6 -0604.4  
2099 9.3 71804.1 -0643.7  
2100 9.2 71811.2 -0649.5  
2101 9.8 71812.1 -0626.5  
2102 9.5 71817.1 -0647.5  
2103 9.3 71818.0 -0621.9

2104 10. 71828.0 -0623.2  
2105 9.6 71829.8 -0612.2  
2106 9.8 71837.9 -0620.0  
2107 8.8 71843.6 -0625.9  
2108 8.8 71858.3 -0617.4  
2109 9.8 71924.5 -0624.2  
2110 9.6 71944.2 -0605.5  
2111 9.5 71946.6 -0651.6  
2112 9.5 71946.7 -0637.0  
2113 9.8 71949.7 -0654.4

2114 9.6 72026.8 -0611.7  
2115 10. 72028.7 -0652.4  
2116 10. 72033.8 -0655.5  
2117 9.0 72034.1 -0603.0  
2118 9.2 72037.5 -0635.2  
2119 9.4 72047.6 -0604.4  
2120 10. 72059.3 -0611.5  
2121 9.3 72101.2 -0605.0  
2122 9.1 72104.8 -0612.5  
2123 9.7 72114.4 -0625.8

2124 7.9 72119.7 -0630.0  
2125 10. 72124.0 -0631.7  
2126 9.9 72128.3 -0638.7  
2127 9.0 72133.0 -0610.0  
2128 9.5 72133.9 -0631.2  
2129 10. 72134.6 -0647.0  
2130 9.0 72138.7 -0631.8  
2131 10. 72143.7 -0639.7  
2132 9.4 72149.3 -0631.0  
2133 8.8 72153.1 -0631.5

2134 9.5 72206.4 -0631.6  
2135 9.0 72227.5 -0631.7  
2136 10. 72230.0 -0639.7  
2137 8.9 72232.3 -0639.7  
2138 9.0 72235.8 -0631.7  
2139 10. 72249.5 -0639.7  
2140 9.5 72253.9 -0639.7  
2141 9.0 72258.0 -0631.5  
2142 9.5 72263.1 -0639.7  
2143 9.8 72263.9 -0639.7

2144 8.5 72318.0 -0631.5  
2145 10. 72322.2 -0631.5  
2146 8.0 72329.6 -0631.5  
2147 9.6 72332.4 -0639.7  
2148 10. 72347.7 -0631.5  
2149 9.5 72353.5 -0631.5  
2150 8.5 72401.6 -0631.5  
2151 9.4 72424.8 -0610.3  
2152 9.4 72425.3 -0644.8  
2153 8.4 72436.3 -0639.7

2154 9.4 72447.3 -0631.5  
2155 9.5 72449.7 -0631.5  
2156 8.3 72454.3 -0631.5  
2157 8.5 72454.3 -0631.5  
2158 9.1 72454.3 -0631.5  
2159 8.8 72454.3 -0631.5  
2160 9.8 72454.3 -0631.5  
2161 8.9 72454.3 -0631.5  
2162 8.5 72454.3 -0631.5  
2163 9.3 72454.3 -0631.5

2164 9.8 72454.3 -0631.5  
2165 7.8 72454.3 -0631.5  
2166 7.4 72454.3 -0631.5  
2167 8.8 72454.3 -0631.5  
2168 10. 72454.3 -0631.5  
2169 9.3 72454.3 -0631.5  
2170 10. 72454.3 -0631.5  
2171 9.5 72454.3 -0631.5  
2172 10. 72454.3 -0631.5  
2173 9.5 72454.3 -0631.5

2174 9.8 72454.3 -0631.5  
2175 9.4 72454.3 -0631.5  
2176 4.7 72454.3 -0631.5  
2177 9.7 72454.3 -0631.5  
2178 9.5 72454.3 -0631.5  
2179 9.2 72454.3 -0631.5  
2180 9.9 72454.3 -0631.5  
2181 10. 72454.3 -0631.5  
2182 9.8 72454.3 -0631.5  
2183 9.3 72454.3 -0631.5

2184 8.1 72722.9 -0631.5  
2185 8.8 72724.3 -0631.5  
2186 9.5 72729.5 -0631.5  
2187 9.4 72729.5 -0631.5  
2188 9.5 72729.5 -0631.5  
2189 10. 72729.5 -0631.5  
2190 8.3 72729.5 -0631.5  
2191 6.5 72729.5 -0631.5  
2192 9.6 72729.5 -0631.5  
2193 9.0 72729.5 -0631.5

2194 5.2 72927.9 -0631.5  
2195 9.5 72928.5 -0631.5  
2196 10. 72937.1 -0631.5  
2197 9.8 72937.1 -0631.5  
2198 9.3 72943.2 -0631.5  
2199 9.8 72950.8 -0631.5  
2200 9.8 72950.8 -0631.5  
2201 9.3 72950.8 -0631.5  
2202 9.4 72950.8 -0631.5  
2203 9.5 72950.8 -0631.5

2204 10. 73027.4 -0631.5  
2205 9.5 73040.0 -0631.5  
2206 9.0 73040.0 -0631.5  
2207 6.8 73047.3 -0631.5  
2208 9.5 73048.4 -0631.5  
2209 9.1 73049.5 -0631.5  
2210 9.0 73050.1 -0631.5  
2211 9.8 73050.2 -0631.5  
2212 9.1 73104.1 -0631.5  
2213 9.5 73104.2 -0631.5

-06 2303 7h40m

2214 9.4 73121.5 -0642.0  
2215 9.8 73131.8 -0607.1  
2216 9.1 73131.3 -0632.1  
2217 9.4 73131.3 -0625.4  
2218 9.6 73136.7 -0612.9  
2219 9.5 73151.8 -0602.9  
2220 10. 73154.2 -0634.6  
2221 9.0 73154.7 -0603.3  
2222 9.4 73157.6 -0628.2  
2223 9.3 73158.3 -0639.1

2224 10. 73227.0 -0614.0  
2225 9.8 73227.6 -0643.1  
2226 9.3 73230.3 -0643.3  
2227 9.5 73231.1 -0626.5  
2228 9.8 73231.1 -0631.3  
2229 9.7 73247.4 -0638.8  
2230 9.5 73249.4 -0610.4  
2231 9.9 73249.5 -0624.9  
2232 9.3 73250.6 -0623.5  
2233 9.0 73252.9 -0634.7

2234 9.1 73347.9 -0645.5  
2235 9.7 73348.5 -0657.6  
2236 9.6 73349.6 -0633.6  
2237 8.0 73349.6 -0632.9  
2238 8.8 73350.9 -0635.2  
2239 8.7 73350.9 -0659.1  
2240 10. 73408.8 -0604.6  
2241 9.4 73427.7 -0612.2  
2242 9.0 73427.2 -0623.6  
2243 8.0 73441.7 -0648.7

2244 9.3 73445.8 -0654.3  
2245 9.4 73445.8 -0644.6  
2246 9.7 73445.8 -0655.9  
2247 8.8 73445.8 -0610.0  
2248 9.7 73445.8 -0655.2  
2249 8.0 73445.8 -0642.0  
2250 8.7 73445.8 -0659.1  
2251 9.8 73445.8 -0613.2  
2252 9.8 73445.8 -0637.0  
2253 9.4 73445.8 -0608.3

2254 9.1 73445.8 -0607.6  
2255 9.4 73445.8 -0600.3  
2256 9.7 73445.8 -0640.8  
2257 9.1 73445.8 -0632.8  
2258 9.7 73445.8 -0631.2  
2259 9.1 73445.8 -0642.8  
2260 10. 73445.8 -0656.0  
2261 9.5 73445.8 -0621.4  
2262 9.3 73445.8 -0607.4  
2263 9.6 73445.8 -0631.2

2264 9.1 73727.4 -0646.5  
2265 9.1 73727.4 -0630.0  
2266 9.7 73727.4 -0631.4  
2267 9.7 73727.4 -0631.6  
2268 9.1 73727.4 -0631.4  
2269 9.4 73727.4 -0631.5  
2270 9.4 73727.4 -0631.5  
2271 9.4 73727.4 -0631.5  
2272 9.3 73727.4 -0631.5  
2273 9.4 73727.4 -0631.5

2274 9.4 73727.4 -0631.5  
2275 9.1 73727.4 -0631.5  
2276 9.7 73727.4 -0631.5  
2277 9.7 73727.4 -0631.5  
2278 9.5 73727.4 -0631.5  
2279 9.2 73727.4 -0631.5  
2280 9.9 73727.4 -0631.5  
2281 10. 73727.4 -0631.5  
2282 9.8 73727.4 -0631.5  
2283 9.3 73727.4 -0631.5

2284 9.4 73727.4 -0631.5  
2285 9.5 73727.4 -0631.5  
2286 9.0 73727.4 -0631.5  
2287 9.7 73727.4 -0631.5  
2288 9.5 73727.4 -0631.5  
2289 10. 73727.4 -0631.5  
2290 8.3 73727.4 -0631.5  
2291 6.5 73727.4 -0631.5  
2292 9.6 73727.4 -0631.5  
2293 9.0 73727.4 -0631.5

2294 5.2 73927.9 -0631.5  
2295 9.5 73928.5 -0631.5  
2296 10. 73937.1 -0631.5  
2297 9.8 73937.1 -0631.5  
2298 9.3 73943.2 -0631.5  
2299 9.8 73950.8 -0631.5  
2300 9.8 73950.8 -0631.5  
2301 9.3 73950.8 -0631.5  
2302 9.4 73950.8 -0631.5  
2303 9.5 73950.8 -0631.5



-06 2304 7h41m

2304 9.5 74102.3 -0638.0  
2305 7.1 74110.0 -0625.2  
2306 9.0 74114.4 -0642.5  
2307 9.2 74118.1 -0629.1  
2308 9.5 74119.3 -0626.5  
2309 9.4 74122.5 -0658.9  
2310 9.0 74141.4 -0619.1  
2311 9.8 74200.7 -0601.2  
2312 9.4 74203.4 -0613.7  
2313 10. 74211.5 -0649.3  
  
2314 10. 74212.5 -0622.5  
2315 9.2 74217.5 -0622.6  
2316 9.5 74218.3 -0611.9  
2317 8.9 74224.5 -0659.8  
2318 9.5 74234.4 -0644.1  
2319 10. 74242.5 -0650.6  
2320 9.5 74254.1 -0617.0  
2321 9.8 74304.7 -0620.5  
2322 9.4 74310.2 -0657.8  
2323 9.5 74318.4 -0611.4  
  
2324 9.8 74323.6 -0625.4  
2325 8.9 74325.1 -0629.2  
2326 8.7 74332.5 -0640.1  
2327 9.3 74334.6 -0607.4  
2328 9.1 74346.7 -0626.1  
2329 9.6 74353.8 -0623.1  
2330 9.7 74401.0 -0653.5  
2331 9.4 74401.3 -0623.5  
2332 9.8 74401.4 -0648.6  
2333 9.4 74405.5 -0657.8  
  
2334 7.5 74426.8 -0636.6  
2335 9.1 74440.4 -0639.6  
2336 9.2 74459.9 -0611.2  
2337 9.5 74459.3 -0627.6  
2338 9.1 74502.6 -0652.1  
2339 8.1 74514.7 -0626.0  
2340 8.3 74520.7 -0651.0  
2341 10. 74522.0 -0644.7  
2342 9.5 74524.5 -0626.2  
2343 9.8 74535.3 -0640.8  
  
2344 9.1 74535.4 -0648.6  
2345 9.8 74550.8 -0609.3  
2346 9.1 74554.8 -0622.4  
2347 8.9 74559.9 -0625.1  
2348 9.8 74614.2 -0604.0  
2349 9.5 74624.3 -0608.3  
2350 9.4 74638.1 -0604.2  
2351 9.5 74648.0 -0653.9  
2352 9.4 74651.8 -0620.8  
2353 9.5 74659.2 -0633.8  
  
2354 9.4 74703.9 -0648.0  
2355 9.2 74706.4 -0628.0  
2356 9.5 74723.8 -0642.9  
2357 9.0 74731.3 -0637.0  
2358 9.1 74732.2 -0602.8  
2359 9.8 74803.4 -0602.5  
2360 9.1 74803.4 -0633.3  
2361 9.4 74805.9 -0625.0  
2362 9.4 74808.0 -0657.4  
2363 9.8 74810.3 -0629.6  
  
2364 9.5 74823.5 -0623.0  
2365 10. 74828.4 -0630.3  
2366 9.4 74845.8 -0604.6  
2367 8.2 74847.6 -0609.0  
2368 8.5 74856.9 -0603.0  
2369 9.2 74857.3 -0634.6  
2370 9.8 74917.0 -0625.2  
2371 8.9 74932.0 -0601.0  
2372 9.5 74932.2 -0622.5  
2373 9.4 74943.8 -0643.0  
  
2374 9.5 74954.8 -0607.5  
2375 9.0 75000.2 -0634.4  
2376 9.1 75033.4 -0648.4  
2377 9.8 75040.5 -0633.5  
2378 8.0 75041.2 -0613.0  
2379 9.7 75051.4 -0620.3  
2380 9.0 75056.4 -0620.9  
2381 9.4 75103.2 -0602.9  
2382 9.4 75113.3 -0614.8  
2383 7.8 75117.1 -0600.6  
  
2384 9.4 75118.2 -0603.3  
2385 9.2 75119.7 -0643.4  
2386 9.4 75122.6 -0626.2  
2387 9.8 75132.4 -0655.2  
2388 9.0 75148.8 -0616.8  
2389 9.3 75149.6 -0618.4  
2390 9.5 75206.4 -0622.6  
2391 9.5 75207.3 -0657.3  
2392 9.0 75214.5 -0605.2  
2393 9.5 75215.1 -0613.9

2394 8.8 75219.2 -0636.3  
2395 9.2 75226.9 -0654.1  
2396 9.8 75227.7 -0650.5  
2397 8.5 75228.7 -0614.0  
2398 9.6 75229.1 -0657.1  
2399 9.0 75232.2 -0626.8  
2400 8.5 75236.9 -0654.1  
2401 9.4 75253.3 -0612.7  
2402 8.7 75258.0 -0657.5  
2403 9.5 75326.2 -0610.0  
  
2404 8.2 75336.3 -0641.7  
2405 9.1 75337.7 -0636.3  
2406 9.4 75339.9 -0658.2  
2407 6.8 75357.1 -0601.1  
2408 9.5 75401.4 -0616.2  
2409 9.5 75402.1 -0633.8  
2410 9.6 75405.9 -0636.4  
2411 9.8 75413.4 -0619.3  
2412 9.4 75414.2 -0628.1  
2413 9.6 75420.3 -0623.5  
  
2414 9.8 75434.7 -0637.0  
2415 9.7 75437.9 -0610.0  
2416 9.5 75459.2 -0606.3  
2417 9.1 75504.2 -0609.7  
2418 9.4 75512.6 -0602.5  
2419 8.5 75520.4 -0617.5  
2420 9.1 75521.0 -0626.4  
2421 9.0 75533.1 -0631.0  
2422 9.8 75541.4 -0650.3  
2423 9.0 75559.7 -0600.5  
  
2424 9.5 75610.1 -0635.6  
2425 9.7 75613.6 -0655.2  
2426 9.5 75614.9 -0650.0  
2427 9.0 75628.6 -0606.1  
2428 9.6 75632.9 -0631.1  
2429 9.0 75651.9 -0653.4  
2430 10. 75652.6 -0629.5  
2431 10. 75658.8 -0657.9  
2432 9.9 75659.3 -0645.5  
2433 9.8 75707.8 -0608.5  
  
2434 9.4 75708.1 -0627.5  
2435 9.4 75715.3 -0601.7  
2436 9.2 75716.7 -0622.4  
2437 9.4 75720.2 -0628.6  
2438 9.5 75724.2 -0657.7  
2439 10. 75738.0 -0601.5  
2440 8.3 75739.5 -0648.0  
2441 10. 75744.9 -0640.6  
2442 9.0 75753.3 -0601.0  
2443 9.2 75804.2 -0615.7  
  
2444 9.5 75814.3 -0625.2  
2445 9.4 75816.2 -0630.2  
2446 9.8 75818.3 -0631.8  
2447 10. 75830.9 -0615.9  
2448 9.8 75836.2 -0618.6  
2449 10. 75838.9 -0636.9  
2450 8.6 75841.9 -0602.5  
2451 8.2 75842.0 -0652.3  
2452 9.0 75844.5 -0657.8  
2453 9.8 75900.0 -0624.2  
  
2454 8.8 75910.8 -0657.6  
2455 10. 75922.1 -0650.1  
2456 9.1 75923.6 -0648.8  
2457 9.0 75925.0 -0607.6  
2458 9.0 75926.3 -0609.2  
2459 9.3 75926.9 -0652.5  
2460 9.8 75932.9 -0657.5  
2461 9.8 75944.6 -0629.2  
2462 9.1 75945.3 -0633.8  
2463 9.8 75949.0 -0653.0  
  
2464 8.8 80005.3 -0603.7  
2465 9.8 80010.9 -0644.3  
2466 9.1 80012.8 -0642.9  
2467 9.5 80013.6 -0653.2  
2468 10. 80016.9 -0657.9  
2469 9.7 80020.4 -0656.6  
2470 8.7 80038.2 -0653.6  
2471 9.1 80051.8 -0609.6  
2472 9.9 80054.6 -0658.8  
2473 8.4 80054.8 -0633.8  
  
2474 9.5 80055.9 -0616.6  
2475 9.8 80107.7 -0601.3  
2476 9.5 80112.5 -0658.5  
2477 9.5 80119.3 -0606.0  
2478 9.8 80122.8 -0604.6  
2479 9.3 80143.2 -0620.9  
2480 9.1 80144.7 -0600.4  
2481 9.5 80148.8 -0654.2  
2482 8.7 80204.9 -0616.9  
2483 9.5 80213.6 -0640.0

2484 9.4 80216.5 -0620.7  
2485 9.5 80228.4 -0617.8  
2486 9.4 80229.7 -0601.7  
2487 8.6 80235.9 -0629.1  
2488 8.9 80237.9 -0625.5  
2489 7.5 80300.3 -0619.3  
2490 10. 80318.2 -0602.8  
2491 9.7 80323.2 -0629.1  
2492 9.5 80325.3 -0607.5  
2493 9.5 80327.2 -0601.0  
  
2494 6.3 80352.0 -0619.4  
2495 9.7 80358.7 -0628.2  
2496 9.1 80403.1 -0655.9  
2497 9.8 80409.4 -0636.1  
2498 8.0 80410.3 -0646.6  
2499 9.0 80417.8 -0659.3  
2500 9.5 80430.3 -0656.2  
2501 9.5 80432.8 -0610.0  
2502 9.3 80442.4 -0613.1  
2503 9.0 80444.2 -0650.8  
  
2504 9.3 80451.2 -0628.5  
2505 9.8 80453.6 -0604.0  
2506 9.0 80458.7 -0601.0  
2507 9.8 80516.5 -0619.7  
2508 9.5 80520.1 -0650.2  
2509 8.8 80536.8 -0626.5  
2510 9.2 80538.5 -0629.0  
2511 9.0 80542.5 -0622.5  
2512 9.6 80544.4 -0639.4  
2513 9.0 80544.9 -0612.7  
  
2514 8.2 80545.3 -0645.8  
2515 9.9 80623.2 -0657.8  
2516 9.0 80624.9 -0615.7  
2517 7.1 80625.9 -0609.5  
2518 8.7 80626.7 -0659.8  
2519 9.4 80635.1 -0652.9  
2520 9.1 80638.0 -0623.2  
2521 8.5 80642.8 -0602.9  
2522 9.8 80647.6 -0632.5  
2523 8.3 80659.0 -0624.8  
  
2524 9.6 80709.5 -0644.7  
2525 9.0 80725.2 -0628.5  
2526 9.3 80738.6 -0607.8  
2527 9.5 80800.5 -0608.0  
2528 8.1 80801.4 -0628.5  
2529 9.4 80822.4 -0619.9  
2530 9.5 80822.5 -0640.7  
2531 8.7 80825.0 -0640.8  
2532 9.4 80829.5 -0650.5  
2533 8.2 80842.3 -0653.7  
  
2534 9.5 80900.0 -0623.1  
2535 9.8 80901.1 -0647.7  
2536 9.0 80907.5 -0631.8  
2537 8.8 80914.9 -0644.8  
2538 10. 80928.6 -0653.0  
2539 9.4 80933.9 -0629.9  
2540 9.0 80934.1 -0624.7  
2541 9.3 80937.3 -0610.4  
2542 8.9 80952.4 -0635.4  
2543 9.3 81007.4 -0641.9  
  
2544 9.4 81026.8 -0630.9  
2545 9.0 81053.5 -0646.1  
2546 9.8 81101.1 -0628.0  
2547 9.5 81111.3 -0639.8  
2548 9.7 81118.4 -0611.7  
2549 9.4 81122.1 -0608.9  
2550 9.5 81139.0 -0632.6  
2551 9.5 81143.8 -0639.4  
2552 9.5 81144.9 -0657.3  
2553 9.2 81146.4 -0641.5  
  
2554 8.8 81154.3 -0614.6  
2555 9.8 81156.0 -0653.5  
2556 8.3 81230.1 -0653.3  
2557 9.5 81250.6 -0648.9  
2558 9.8 81302.4 -0613.0  
2559 9.4 81302.6 -0630.8  
2560 7.2 81321.8 -0610.0  
2561 8.0 81326.7 -0602.9  
2562 9.8 81335.5 -0647.7  
2563 9.0 81335.8 -0650.7  
  
2564 9.5 81338.4 -0616.6  
2565 9.5 81424.5 -0648.2  
2566 8.5 81500.4 -0621.7  
2567 9.3 81502.6 -0604.6  
2568 9.5 81503.2 -0655.5  
2569 9.5 81504.4 -0604.2  
2570 9.5 81522.4 -0642.8  
2571 7.8 81541.5 -0613.4  
2572 9.8 81604.6 -0626.3  
2573 9.0 81604.9 -0643.9

-06 2663 8h30m

2574 9.3 81619.4 -0624.5  
2575 9.6 81626.5 -0627.8  
2576 8.5 81627.7 -0623.1  
2577 8.6 81634.1 -0628.0  
2578 9.2 81635.8 -0627.3  
2579 8.5 81652.5 -0647.6  
2580 9.5 81710.8 -0611.6  
2581 9.4 81712.2 -0604.7  
2582 9.7 81755.8 -0614.0  
2583 9.6 81800.8 -0613.5  
  
2584 9.2 81804.8 -0615.4  
2585 8.0 81808.9 -0641.5  
2586 9.4 81818.8 -0616.9  
2587 9.8 81842.3 -0617.7  
2588 9.8 81847.7 -0628.7  
2589 9.8 81855.0 -0626.1  
2590 9.8 81910.3 -0658.2  
2591 8.5 81914.6 -0600.3  
2592 9.5 81920.1 -0658.4  
2593 9.5 81924.4 -0645.4  
  
2594 10. 81932.5 -0646.7  
2595 9.5 82011.2 -0610.4  
2596 9.2 82020.7 -0605.2  
2597 9.8 82023.3 -0603.5  
2598 9.8 82033.1 -0655.6  
2599 7.5 82039.4 -0644.7  
2600 9.1 82045.0 -0636.0  
2601 8.8 82045.5 -0648.2  
2602 9.1 82049.6 -0624.6  
2603 9.0 82058.7 -0609.5  
  
2604 9.0 82108.3 -0615.7  
2605 9.5 82110.9 -0640.9  
2606 8.3 82123.6 -0652.3  
2607 9.5 82124.2 -0611.4  
2608 10. 82129.7 -0636.9  
2609 9.8 82227.5 -0654.0  
2610 9.3 82244.3 -0636.1  
2611 9.3 82247.0 -0648.4  
2612 10. 82248.6 -0658.0  
2613 9.3 82251.1 -0627.9  
  
2614 9.4 82253.3 -0646.3  
2615 9.6 82254.2 -0616.1  
2616 9.7 82255.6 -0644.7  
2617 7.4 82218.0 -0632.9  
2618 9.1 82319.7 -0614.3  
2619 9.8 82322.6 -0629.6  
2620 7.8 82327.8 -0640.3  
2621 9.6 82336.5 -0651.3  
2622 9.6 82400.8 -0620.5  
2623 9.3 82412.1 -0610.3  
  
2624 9.8 82415.6 -0652.4  
2625 9.0 82427.0 -0602.4  
2626 9.4 82439.0 -0654.0  
2627 9.3 82441.6 -0610.9  
2628 8.9 82445.3 -0631.0  
2629 10. 82458.4 -0649.3  
2630 8.8 82516.6 -0656.7  
2631 10. 82520.3 -0637.5  
2632 9.8 82524.7 -0613.6  
2633 9.5 82525.5 -0637.9  
  
2634 9.0 82547.6 -0605.6  
2635 9.6 82604.1 -0608.4  
2636 8.0 82624.6 -0644.6  
2637 9.6 82628.7 -0617.6  
2638 9.6 82643.2 -0619.9  
2639 8.8 82657.1 -0625.2  
2640 9.4 82701.9 -0646.8  
2641 10. 82704.0 -0609.9  
2642 8.5 82717.5 -0605.7  
2643 9.7 82722.3 -0608.0  
  
2644 9.8 82724.2 -0638.1  
2645 10. 82747.6 -0646.6  
2646 9.2 82748.8 -0605.0  
2647 9.4 82759.3 -0629.6  
2648 8.9 82808.4 -0635.8  
2649 9.1 82828.1 -0628.7  
2650 9.8 82837.0 -0649.1  
2651 9.4 82840.6 -0656.8  
2652 9.8 82853.5 -0656.1  
2653 9.4 82855.1 -0630.0  
  
2654 9.1 82907.6 -0630.6  
2655 9.4 82919.3 -0643.1  
2656 10. 82929.4 -0645.9  
2657 9.5 82933.1 -0656.3  
2658 8.5 82947.7 -0648.9  
2659 8.8 82949.3 -0643.8  
2660 9.2 83034.8 -0646.2  
2661 9.8 83039.5 -0642.6  
2662 10. 83039.7 -0615.2  
2663 9.0 83041.8 -0618.8



-06 2664 8h30m

2664 7.5 83044.6 -0617.9  
2665 9.3 83046.3 -0632.8  
2666 9.3 83049.7 -0624.4  
2667 8.8 83056.5 -0608.1  
2668 9.9 83103.6 -0646.9  
2669 6.7 83110.5 -0609.3  
2670 8.5 83125.4 -0654.4  
2671 7.5 83148.6 -0620.3  
2672 9.8 83156.0 -0633.2  
2673 9.1 83201.9 -0600.2

2674 9.3 83213.8 -0638.5  
2675 10. 83218.6 -0623.3  
2676 9.8 83228.1 -0638.5  
2677 9.7 83230.0 -0639.1  
2678 9.8 83240.0 -0651.9  
2679 9.8 83243.1 -0655.0  
2680 9.8 83252.2 -0632.7  
2681 10. 83253.2 -0625.5  
2682 9.8 83301.4 -0651.5  
2683 8.7 83303.3 -0650.0

2684 10. 83323.7 -0605.6  
2685 8.5 83330.1 -0611.8  
2686 8.6 83357.5 -0619.8  
2687 8.6 83408.6 -0600.9  
2688 9.6 83427.2 -0626.5  
2689 9.8 83428.3 -0627.6  
2690 8.9 83429.8 -0605.6  
2691 10. 83442.8 -0648.0  
2692 9.4 83446.2 -0649.5  
2693 9.4 83450.0 -0637.4

2694 9.5 83455.4 -0612.9  
2695 9.0 83508.9 -0631.9  
2696 10. 83513.4 -0628.7  
2697 9.5 83526.9 -0638.7  
2698 9.4 83528.1 -0613.5  
2699 9.7 83532.1 -0631.2  
2700 8.5 83538.5 -0658.2  
2701 9.8 83547.0 -0638.0  
2702 9.1 83559.4 -0651.0  
2703 9.0 83603.6 -0640.0

2704 10. 83611.2 -0644.5  
2705 8.6 83617.2 -0633.4  
2706 9.5 83625.8 -0609.3  
2707 8.7 83629.1 -0641.8  
2708 4.5 83633.7 -0642.8  
2709 9.4 83648.9 -0601.0  
2710 9.8 83709.5 -0623.1  
2711 10. 83714.4 -0653.2  
2712 9.8 83738.3 -0612.7  
2713 9.0 83746.1 -0600.5

2714 7.2 83809.4 -0627.3  
2715 9.5 83838.1 -0640.8  
2716 9.5 83838.5 -0636.5  
2717 8.4 83844.7 -0626.2  
2718 9.0 83848.4 -0611.5  
2719 8.3 83850.6 -0600.5  
2720 9.3 83931.2 -0644.1  
2721 9.5 83944.9 -0616.8  
2722 9.3 83948.3 -0648.3  
2723 8.5 83951.3 -0613.6

2724 9.4 84015.5 -0630.7  
2725 9.8 84023.4 -0616.4  
2726 9.4 84045.0 -0618.3  
2727 6.8 84055.8 -0601.1  
2728 10. 84111.4 -0613.6  
2729 9.0 84112.3 -0647.1  
2730 9.3 84141.2 -0643.5  
2731 8.2 84158.5 -0628.2  
2732 8.5 84201.8 -0614.5  
2733 8.7 84207.9 -0634.4

2734 10. 84216.9 -0603.5  
2735 9.3 84225.0 -0658.0  
2736 9.4 84242.1 -0605.1  
2737 9.7 84250.9 -0632.9  
2738 10. 84257.0 -0643.2  
2739 10. 84329.3 -0630.7  
2740 8.7 84339.6 -0631.4  
2741 9.3 84403.7 -0625.9  
2742 9.6 84423.1 -0631.7  
2743 6.3 84426.4 -0638.5

2744 8.2 84435.3 -0614.3  
2745 10. 84436.4 -0609.0  
2746 9.3 84448.0 -0648.6  
2747 9.8 84501.1 -0636.2  
2748 9.7 84512.5 -0622.3  
2749 9.7 84514.9 -0646.1  
2750 9.7 84518.0 -0639.5  
2751 9.7 84545.4 -0622.6  
2752 8.8 84623.2 -0603.0  
2753 9.9 84634.7 -0606.8

2754 9.0 84642.6 -0603.5  
2755 9.5 84650.4 -0638.1  
2756 9.0 84650.9 -0658.4  
2757 9.2 84651.0 -0626.8  
2758 9.8 84707.3 -0626.6  
2759 8.9 84728.2 -0649.4  
2760 9.8 84736.3 -0645.3  
2761 9.8 84736.5 -0636.0  
2762 9.9 84748.2 -0647.8  
2763 9.9 84802.9 -0633.7

2764 9.7 84816.1 -0634.2  
2765 9.4 84851.7 -0657.3  
2766 9.3 84852.8 -0629.0  
2767 9.5 84905.9 -0622.8  
2768 9.5 84927.6 -0619.2  
2769 9.5 84938.2 -0615.9  
2770 10. 84940.5 -0628.8  
2771 9.8 84959.4 -0618.0  
2772 8.3 85007.8 -0611.4  
2773 9.5 85018.7 -0637.0

2774 8.0 85023.8 -0650.9  
2775 10. 85025.1 -0640.8  
2776 9.0 85026.7 -0612.4  
2777 9.3 85041.7 -0648.4  
2778 8.5 85052.4 -0622.6  
2779 9.5 85143.7 -0645.8  
2780 9.5 85151.4 -0622.8  
2781 8.3 85254.7 -0631.4  
2782 9.5 85314.9 -0609.8  
2783 9.3 85333.0 -0601.1

2784 8.5 85343.5 -0650.9  
2785 9.4 85400.6 -0606.4  
2786 10. 85400.8 -0654.4  
2787 8.7 85409.7 -0616.0  
2788 10. 85418.8 -0655.8  
2789 9.0 85422.3 -0632.1  
2790 9.8 85425.2 -0637.9  
2791 9.5 85427.6 -0608.7  
2792 9.8 85433.5 -0647.5  
2793 9.4 85439.6 -0644.4

2794 9.0 85450.5 -0617.8  
2795 9.2 85451.7 -0611.7  
2796 9.7 85513.3 -0608.9  
2797 9.1 85518.8 -0656.6  
2798 10. 85526.1 -0650.3  
2799 10. 85544.2 -0632.7  
2800 9.9 85551.2 -0653.0  
2801 9.1 85620.5 -0612.2  
2802 10. 85640.4 -0628.9  
2803 9.6 85651.0 -0608.9

2804 9.5 85653.3 -0606.8  
2805 9.8 85659.6 -0629.6  
2806 9.5 85704.6 -0629.3  
2807 9.2 85724.6 -0649.4  
2808 9.3 85742.1 -0647.6  
2809 9.8 85743.7 -0650.7  
2810 9.8 85744.9 -0641.8  
2811 10. 85753.2 -0603.1  
2812 10. 85803.2 -0624.0  
2813 10. 85803.6 -0638.2

2814 9.6 85815.9 -0634.9  
2815 9.5 85828.1 -0615.8  
2816 9.6 85845.6 -0649.1  
2817 8.3 85922.6 -0640.1  
2818 9.9 85924.3 -0655.0  
2819 10. 85939.7 -0604.0  
2820 9.5 85942.6 -0648.9  
2821 9.0 85948.3 -0657.1  
2822 9.5 90024.9 -0636.6  
2823 9.6 90039.7 -0606.1

2824 9.4 90042.2 -0631.8  
2825 8.3 90042.9 -0633.3  
2826 9.3 90112.0 -0645.9  
2827 9.1 90152.8 -0616.8  
2828 10. 90213.2 -0619.2  
2829 10. 90247.6 -0655.2  
2830 9.1 90319.9 -0636.9  
2831 9.8 90321.5 -0654.1  
2832 9.9 90324.9 -0646.6  
2833 9.4 90401.3 -0611.5

2834 9.4 90405.3 -0609.9  
2835 10. 90411.4 -0614.6  
2836 9.5 90417.3 -0659.0  
2837 9.4 90418.4 -0620.6  
2838 10. 90434.7 -0602.1  
2839 8.0 90441.4 -0623.0  
2840 9.0 90453.4 -0620.7  
2841 9.0 90502.2 -0653.1  
2842 8.9 90511.4 -0633.4  
2843 9.0 90513.5 -0612.0

2844 7.7 90515.0 -0620.2  
2845 6.3 90516.3 -0630.9  
2846 10. 90519.7 -0620.1  
2847 10. 90522.1 -0609.4  
2848 9.6 90526.1 -0617.0  
2849 9.4 90543.4 -0603.0  
2850 8.5 90553.8 -0657.3  
2851 10. 90625.9 -0601.6  
2852 9.3 90628.1 -0624.7  
2853 9.6 90628.9 -0603.0

2854 9.1 90638.0 -0644.4  
2855 8.5 90642.0 -0615.7  
2856 9.7 90643.6 -0655.4  
2857 9.1 90726.8 -0611.9  
2858 9.1 90741.4 -0603.0  
2859 9.6 90741.4 -0644.7  
2860 9.0 90746.3 -0625.7  
2861 9.5 90750.1 -0630.6  
2862 8.3 90811.2 -0620.4  
2863 9.3 90825.7 -0635.2

2864 9.7 90839.7 -0644.0  
2865 9.5 90845.5 -0625.7  
2866 9.5 90846.3 -0648.8  
2867 10. 90852.9 -0602.5  
2868 9.4 90900.9 -0602.9  
2869 9.2 90911.2 -0620.4  
2870 9.9 90924.0 -0659.0  
2871 9.4 90926.3 -0642.7  
2872 8.5 90931.5 -0606.7  
2873 9.9 90950.0 -0610.0

2874 9.5 91000.0 -0606.4  
2875 8.7 91026.5 -0651.7  
2876 9.5 91036.4 -0629.1  
2877 9.0 91059.8 -0652.2  
2878 9.6 91101.7 -0627.2  
2879 9.7 91105.1 -0633.5  
2880 9.3 91106.5 -0647.5  
2881 9.8 91109.0 -0631.2  
2882 9.4 91119.2 -0636.3  
2883 9.5 91145.1 -0622.7

2884 10. 91229.3 -0628.1  
2885 9.7 91313.3 -0659.5  
2886 9.8 91314.3 -0652.3  
2887 9.5 91329.8 -0600.9  
2888 9.8 91344.8 -0635.7  
2889 9.5 91346.3 -0603.1  
2890 9.8 91346.5 -0633.3  
2891 8.5 91410.8 -0603.8  
2892 9.7 91441.2 -0638.4  
2893 10. 91454.3 -0644.0

2894 9.6 91514.4 -0618.9  
2895 9.8 91556.5 -0653.5  
2896 9.8 91642.6 -0620.6  
2897 9.8 91646.8 -0655.5  
2898 9.9 91702.9 -0659.7  
2899 8.0 91718.5 -0616.2  
2900 10. 91728.8 -0612.8  
2901 9.3 91737.5 -0613.9  
2902 9.5 91748.7 -0644.5  
2903 9.4 91840.4 -0651.0

2904 9.2 91850.4 -0651.2  
2905 9.0 91851.8 -0603.2  
2906 10. 91902.7 -0634.0  
2907 9.4 91915.3 -0603.1  
2908 9.5 91919.4 -0658.5  
2909 9.5 91942.7 -0644.6  
2910 9.2 91946.3 -0602.5  
2911 10. 91947.6 -0611.2  
2912 9.0 91949.2 -0652.8  
2913 9.0 92011.8 -0601.4

2914 10. 92028.7 -0608.3  
2915 9.3 92034.7 -0632.8  
2916 9.7 92037.1 -0630.4  
2917 8.8 92040.2 -0643.6  
2918 9.8 92102.9 -0613.8  
2919 9.5 92116.5 -0602.0  
2920 9.1 92150.0 -0634.8  
2921 9.3 92152.0 -0655.2  
2922 9.4 92155.2 -0641.6  
2923 8.2 92221.4 -0651.9

2924 10. 92235.0 -0618.5  
2925 9.3 92255.7 -0640.8  
2926 10. 92322.3 -0608.5  
2927 10. 92324.3 -0657.3  
2928 8.5 92345.2 -0602.9  
2929 9.5 92359.9 -0627.7  
2930 9.7 92408.1 -0627.4  
2931 9.1 92420.2 -0647.6  
2932 10. 92421.7 -0654.6  
2933 7.8 92437.4 -0651.7

2934 9.5 92439.9 -0654.7  
2935 9.8 92456.3 -0626.2  
2936 9.6 92523.4 -0650.5  
2937 10. 92543.8 -0656.3  
2938 9.2 92553.5 -0628.5  
2939 6.8 92608.9 -0632.8  
2940 9.0 92634.0 -0639.3  
2941 10. 92648.6 -0632.0  
2942 10. 92649.4 -0620.6  
2943 9.1 92702.0 -0624.4

2944 9.1 92714.8 -0613.0  
2945 8.3 92740.3 -0653.2  
2946 9.4 92754.5 -0629.6  
2947 8.7 92758.0 -0626.4  
2948 10. 92818.3 -0616.8  
2949 10. 92818.7 -0656.3  
2950 9.0 92825.7 -0609.1  
2951 9.5 92833.3 -0613.1  
2952 9.0 92801.7 -0646.4  
2953 9.5 92922.4 -0616.3

2954 10. 92926.2 -0603.3  
2955 9.1 92934.3 -0653.3  
2956 8.3 92939.1 -0623.5  
2957 9.5 93008.5 -0624.6  
2958 9.5 93051.4 -0654.9  
2959 9.1 93051.9 -0657.6  
2960 9.9 93052.2 -0609.1  
2961 9.3 93054.0 -0620.1  
2962 9.7 93120.3 -0637.1  
2963 9.4 93139.8 -0651.4

2964 10. 93145.7 -0612.0  
2965 10. 93147.7 -0657.1  
2966 9.8 93202.9 -0626.3  
2967 9.5 93218.8 -0659.3  
2968 9.1 93221.2 -0645.3  
2969 9.4 93232.1 -0601.8  
2970 9.8 93244.6 -0602.8  
2971 9.0 93247.2 -0607.8  
2972 9.4 93254.9 -0651.9  
2973 9.5 93312.1 -0626.8

2974 7.8 93328.8 -0614.0  
2975 8.2 93400.9 -0658.7  
2976 10. 93412.8 -0659.9  
2977 8.6 93437.0 -0606.2  
2978 9.1 93437.1 -0643.9  
2979 9.2 93449.0 -0618.1  
2980 9.8 93450.9 -0613.0  
2981 10. 93507.4 -0611.1  
2982 10. 93520.4 -0641.1  
2983 9.2 93522.9 -0624.5

2984 9.2 93552.1 -0621.3  
2985 8.3 93611.8 -0610.4  
2986 9.7 93623.9 -0618.1  
2987 9.2 93645.9 -0658.7  
2988 9.5 93710.5 -0648.4  
2989 8.0 93739.6 -0602.4  
2990 9.8 93826.7 -0604.5  
2991 9.5 93830.1 -0607.9  
2992 9.4 93831.5 -0642.9  
2993 9.4 93914.2 -0638.7

2994 9.9 93916.9 -0644.7  
2995 10. 93922.9 -0608.5  
2996 9.1 93928.8 -0616.3  
2997 8.5 93934.1 -0628.0  
2998 9.5 93948.7 -0637.5  
2999 9.1 94013.1 -0648.1  
3000 9.5 94015.5 -0644.1  
3001 10. 94016.7 -0612.1  
3002 9.5 94037.5 -0652.0  
3003 7.2 94059.8 -0634.7

3004 10. 94105.3 -0640.3  
3005 8.1 94120.4 -0639.0  
3006 10. 94126.9 -0609.2  
3007 9.5 94128.4 -0655.3  
3008 9.6 94130.9 -0655.6  
3009 9.0 94223.9 -0610.7  
3010 8.9 94227.0 -0639.5  
3011 9.1 94259.8 -0609.4  
3012 8.9 94313.3 -0600.7  
3013 7.5 94329.4 -0642.4

3014 9.0 94358.3 -0618.3  
3015 9.4 94408.4 -0654.2  
3016 8.3 94508.4 -0655.1  
3017 9.3 94510.8 -0648.5  
3018 9.4 94518.5 -0622.0  
3019 9.9 94535.9 -0606.6  
3020 8.8 94552.0 -0639.7  
3021 9.8 94605.2 -0656.9  
3022 10. 94620.7 -0649.6  
3023 10. 94621.5 -0620.5

-06 3023 9h46m



3024 9.6 94622.1 -0602.6  
 3025 10. 94639.0 -0639.4  
 3026 9.8 94741.4 -0617.7  
 3027 9.0 94746.6 -0647.0  
 3028 9.0 94801.3 -0623.4  
 3029 9.5 94802.9 -0618.0  
 3030 9.8 94849.4 -0612.4  
 3031 9.4 94853.4 -0617.4  
 3032 9.3 94854.7 -0618.9  
 3033 6.8 94855.8 -0657.6

3034 9.5 94903.6 -0644.1  
 3035 9.2 94905.3 -0626.9  
 3036 9.3 94907.2 -0635.9  
 3037 9.7 94941.6 -0634.8  
 3038 9.4 94950.9 -0619.6  
 3039 9.8 94955.8 -0603.7  
 3040 8.9 95003.5 -0641.2  
 3041 9.2 95019.7 -0649.8  
 3042 9.5 95031.7 -0603.0  
 3043 10. 95101.6 -0651.4

3044 9.4 95108.8 -0658.6  
 3045 8.7 95118.4 -0630.1  
 3046 9.7 95124.5 -0617.2  
 3047 9.4 95129.3 -0614.4  
 3048 10. 95151.4 -0637.5  
 3049 9.2 95157.8 -0613.0  
 3050 9.4 95216.7 -0656.0  
 3051 10. 95226.8 -0612.5  
 3052 9.7 95226.9 -0631.5  
 3053 9.4 95245.7 -0611.8

3054 8.3 95259.2 -0600.4  
 3055 8.8 95308.7 -0649.6  
 3056 8.3 95330.4 -0624.5  
 3057 8.8 95335.7 -0600.5  
 3058 9.3 95348.8 -0609.4  
 3059 8.9 95409.0 -0627.2  
 3060 9.0 95512.4 -0623.6  
 3061 9.2 95533.2 -0654.7  
 3062 8.8 95546.3 -0608.9  
 3063 9.9 95557.9 -0616.2

3064 9.6 95631.2 -0613.1  
 3065 9.4 95632.8 -0649.4  
 3066 8.9 95642.7 -0658.1  
 3067 9.3 95704.4 -0617.8  
 3068 7.5 95711.7 -0630.8  
 3069 10. 95713.8 -0613.9  
 3070 10. 95741.0 -0631.1  
 3071 10. 95831.9 -0609.7  
 3072 9.3 95843.3 -0620.7  
 3073 9.4 95906.0 -0644.6

3074 9.3 95933.3 -0637.7  
 3075 9.8 95959.1 -0621.7  
 3076 9.1 100005.5 -0630.2  
 3077 10. 100016.8 -0616.1  
 3078 6.8 100032.1 -0655.3  
 3079 9.5 100109.0 -0613.5  
 3080 9.4 100125.9 -0632.9  
 3081 10. 100134.4 -0625.9  
 3082 9.1 100135.7 -0654.7  
 3083 9.8 100144.1 -0631.8

3084 9.3 100203.4 -0640.4  
 3085 10. 100205.2 -0608.2  
 3086 9.5 100218.3 -0637.3  
 3087 9.8 100224.5 -0644.9  
 3088 10. 100228.2 -0612.6  
 3089 10. 100330.9 -0614.1  
 3090 10. 100350.8 -0618.2  
 3091 9.5 100354.7 -0658.8  
 3092 8.0 100356.3 -0619.9  
 3093 9.2 100401.1 -0607.7

3094 9.3 100401.3 -0631.5  
 3095 10. 100402.7 -0613.2  
 3096 7.2 100403.5 -0636.2  
 3097 9.3 100432.2 -0609.0  
 3098 10. 100437.8 -0618.6  
 3099 9.3 100447.6 -0621.8  
 3100 9.5 100451.8 -0617.9  
 3101 10. 100458.3 -0602.4  
 3102 9.2 100510.0 -0634.4  
 3103 10. 100533.8 -0622.7

3104 10. 100549.8 -0621.1  
 3105 8.0 100607.7 -0616.5  
 3106 9.5 100612.2 -0634.6  
 3107 9.8 100612.4 -0645.5  
 3108 9.8 100616.7 -0619.2  
 3109 7.3 100631.6 -0640.3  
 3110 9.1 100652.7 -0634.4  
 3111 9.4 100659.6 -0659.8  
 3112 10. 100702.3 -0627.2  
 3113 9.5 100708.9 -0629.7

3114 10. 100714.0 -0622.7  
 3115 9.7 100727.7 -0629.7  
 3116 9.0 100731.2 -0630.2  
 3117 8.8 100806.2 -0628.0  
 3118 9.3 100852.7 -0631.3  
 3119 9.7 100915.6 -0653.7  
 3120 9.4 100916.3 -0623.0  
 3121 8.8 101003.1 -0610.0  
 3122 9.3 101027.7 -0638.1  
 3123 9.0 101041.3 -0611.1

3124 9.8 101053.0 -0601.0  
 3125 8.8 101121.4 -0646.7  
 3126 9.8 101157.2 -0626.0  
 3127 9.3 101306.1 -0613.9  
 3128 9.4 101315.2 -0616.8  
 3129 8.8 101319.1 -0616.8  
 3130 9.5 101405.5 -0604.6  
 3131 9.8 101422.4 -0604.2  
 3132 9.5 101445.7 -0623.1  
 3133 9.4 101511.2 -0626.1

3134 8.4 101530.7 -0601.2  
 3135 9.1 101535.1 -0640.6  
 3136 9.3 101603.6 -0630.2  
 3137 9.6 101605.2 -0623.5  
 3138 9.3 101615.3 -0621.0  
 3139 8.7 101628.7 -0631.4  
 3140 7.8 101709.6 -0651.2  
 3141 9.2 101722.0 -0659.2  
 3142 9.8 101727.7 -0629.2  
 3143 10. 101744.3 -0630.7

3144 10. 101754.0 -0658.0  
 3145 9.8 101818.8 -0603.7  
 3146 6.0 101829.1 -0619.5  
 3147 10. 101833.1 -0647.7  
 3148 9.5 101838.2 -0606.1  
 3149 10. 101838.5 -0619.2  
 3150 9.8 101841.1 -0647.0  
 3151 9.3 101848.6 -0654.3  
 3152 9.8 101924.0 -0625.2  
 3153 9.7 101935.3 -0632.0

3154 9.4 101938.1 -0654.4  
 3155 9.1 101954.6 -0654.6  
 3156 9.8 101959.5 -0653.0  
 3157 9.5 102004.7 -0641.9  
 3158 9.9 102008.0 -0628.2  
 3159 9.9 102035.9 -0607.8  
 3160 10. 102036.8 -0616.2  
 3161 9.5 102045.2 -0636.5  
 3162 10. 102048.2 -0635.6  
 3163 9.7 102101.4 -0605.8

3164 10. 102101.7 -0609.7  
 3165 9.6 102143.5 -0607.7  
 3166 9.5 102214.1 -0652.3  
 3167 9.8 102221.6 -0604.3  
 3168 9.7 102222.9 -0631.2  
 3169 9.8 102250.0 -0620.1  
 3170 9.8 102251.5 -0650.0  
 3171 9.2 102340.4 -0652.9  
 3172 8.5 102362.0 -0615.6  
 3173 6.0 102343.5 -0653.8

3174 9.6 102353.1 -0659.2  
 3175 9.8 102354.0 -0624.0  
 3176 9.8 102355.5 -0621.4  
 3177 9.5 102411.3 -0632.0  
 3178 9.2 102450.3 -0626.3  
 3179 9.8 102513.6 -0641.3  
 3180 9.1 102519.1 -0606.8  
 3181 9.1 102523.6 -0608.4  
 3182 9.8 102543.4 -0651.9  
 3183 9.8 102545.0 -0646.7

3184 9.5 102556.0 -0621.8  
 3185 9.2 102601.2 -0628.6  
 3186 9.5 102618.0 -0625.2  
 3187 9.3 102627.4 -0620.9  
 3188 9.4 102632.9 -0625.5  
 3189 9.6 102615.3 -0656.0  
 3190 10. 102821.8 -0638.8  
 3191 9.8 102827.0 -0614.6  
 3192 9.2 102833.9 -0640.6  
 3193 9.6 102900.2 -0635.2

3194 8.3 102920.0 -0608.2  
 3195 9.6 102946.0 -0623.3  
 3196 9.5 102947.5 -0640.4  
 3197 9.8 102959.3 -0630.9  
 3198 9.4 103023.4 -0658.0  
 3199 9.8 103101.4 -0652.2  
 3200 9.4 103103.9 -0619.1  
 3201 8.1 103115.8 -0626.8  
 3202 9.6 103119.0 -0601.0  
 3203 9.7 103125.9 -0637.4

3204 8.9 103151.4 -0649.5  
 3205 9.8 103329.8 -0657.6  
 3206 9.4 103350.1 -0632.0  
 3207 9.8 103406.4 -0653.5  
 3208 9.7 103427.1 -0651.5  
 3209 10. 103427.3 -0620.6  
 3210 9.1 103421.9 -0648.8  
 3211 9.9 103432.1 -0645.9  
 3212 10. 103436.8 -0642.8  
 3213 9.4 103457.0 -0603.4

3214 9.5 103514.8 -0626.2  
 3215 9.4 103528.5 -0643.9  
 3216 9.3 103539.5 -0601.8  
 3217 9.1 103543.9 -0607.0  
 3218 9.6 103607.8 -0646.1  
 3219 10. 103649.8 -0615.2  
 3220 10. 103652.3 -0616.3  
 3221 9.1 103703.3 -0658.8  
 3222 9.8 103705.5 -0625.5  
 3223 9.7 103706.2 -0620.0

3224 9.5 103711.0 -0627.3  
 3225 9.9 103751.4 -0649.1  
 3226 9.7 103815.3 -0634.0  
 3227 8.5 103817.8 -0648.8  
 3228 10. 103851.8 -0622.1  
 3229 9.8 104012.2 -0658.5  
 3230 9.0 104022.0 -0603.3  
 3231 9.8 104025.7 -0628.3  
 3232 8.8 104039.4 -0639.2  
 3233 8.7 104137.4 -0624.8

3234 9.9 104145.4 -0605.4  
 3235 8.8 104215.5 -0600.2  
 3236 9.8 104215.7 -0656.6  
 3237 7.8 104241.8 -0642.9  
 3238 9.8 104311.7 -0658.1  
 3239 8.8 104316.9 -0600.2  
 3240 9.8 104323.3 -0609.8  
 3241 10. 104325.9 -0636.4  
 3242 9.1 104326.2 -0620.5  
 3243 9.8 104347.2 -0655.9

3244 9.8 104405.7 -0624.1  
 3245 9.5 104407.3 -0648.1  
 3246 9.1 104435.2 -0624.5  
 3247 9.5 104436.3 -0625.2  
 3248 9.7 104454.0 -0625.2  
 3249 10. 104454.8 -0649.4  
 3250 9.2 104522.8 -0613.4  
 3251 10. 104526.7 -0653.4  
 3252 9.2 104531.8 -0602.7  
 3253 10. 104537.4 -0629.5

3254 9.5 104541.3 -0602.9  
 3255 9.5 104558.2 -0637.3  
 3256 9.2 104605.6 -0657.6  
 3257 9.2 104618.7 -0656.5  
 3258 10. 104639.3 -0607.4  
 3259 10. 104638.6 -0649.8  
 3260 10. 104649.3 -0636.6  
 3261 9.8 104706.1 -0659.5  
 3262 9.8 104709.9 -0679.2  
 3263 9.4 104800.3 -0600.5

3264 8.4 104802.6 -0649.4  
 3265 8.5 104803.4 -0603.4  
 3266 8.5 104804.8 -0611.5  
 3267 10. 104825.7 -0642.8  
 3268 10. 104804.8 -0603.7  
 3269 10. 104820.7 -0642.2  
 3270 10. 104841.7 -0644.4  
 3271 10. 105007.2 -0643.5  
 3272 10. 105036.2 -0628.5  
 3273 9.4 105045.0 -0633.0

3274 8.7 105111.1 -0616.8  
 3275 10. 105126.1 -0658.9  
 3276 9.4 105152.7 -0638.8  
 3277 9.7 105161.6 -0647.1  
 3278 8.8 105166.5 -0634.1  
 3279 9.8 105208.7 -0642.7  
 3280 9.4 105222.8 -0602.5  
 3281 8.3 105226.0 -0648.0  
 3282 9.3 105244.1 -0611.0  
 3283 9.8 105249.7 -0611.6

3284 9.5 105311.6 -0604.2  
 3285 9.3 105329.2 -0625.2  
 3286 9.8 105333.1 -0622.4  
 3287 9.0 105351.5 -0655.6  
 3288 9.5 105352.6 -0644.2  
 3289 8.9 105416.2 -0612.1  
 3290 9.3 105419.1 -0647.7  
 3291 9.6 105443.6 -0636.3  
 3292 9.7 105500.8 -0629.1  
 3293 9.4 105501.2 -0601.9

3294 9.8 105542.5 -0648.2  
 3295 9.1 105545.5 -0626.6  
 3296 10. 105608.6 -0647.7  
 3297 9.6 105611.2 -0627.2  
 3298 9.6 105613.9 -0632.7  
 3299 9.2 105630.2 -0602.9  
 3300 7.2 105630.3 -0654.1  
 3301 9.2 105646.1 -0636.8  
 3302 9.8 105711.2 -0602.4  
 3303 9.7 105733.9 -0626.1

3304 9.4 105736.0 -0645.9  
 3305 7.7 105846.1 -0613.5  
 3306 9.8 105847.5 -0625.3  
 3307 9.3 105849.5 -0633.8  
 3308 9.8 105935.9 -0643.4  
 3309 9.6 105957.9 -0606.3  
 3310 8.3 110009.7 -0601.6  
 3311 9.4 110053.0 -0649.0  
 3312 9.8 110111.6 -0634.7  
 3313 9.5 110117.5 -0611.1

3314 9.0 110149.6 -0605.5  
 3315 9.8 110159.6 -0601.7  
 3316 9.5 110255.4 -0631.4  
 3317 7.0 110256.1 -0636.0  
 3318 9.8 110307.3 -0652.5  
 3319 9.3 110330.9 -0600.4  
 3320 9.5 110338.9 -0606.6  
 3321 8.8 110406.6 -0600.0  
 3322 9.8 110408.5 -0603.1  
 3323 9.3 110409.6 -0604.7

3324 9.0 110430.5 -0636.8  
 3325 9.0 110456.7 -0650.7  
 3326 8.8 110532.0 -0608.7  
 3327 9.3 110541.3 -0641.7  
 3328 8.9 110542.0 -0628.2  
 3329 9.2 110555.7 -0624.9  
 3330 10. 110608.6 -0637.2  
 3331 9.0 110629.0 -0637.9  
 3332 9.5 110649.7 -0625.2  
 3333 9.1 110700.9 -0644.6

3334 10. 110745.8 -0655.9  
 3335 8.8 110756.4 -0625.2  
 3336 8.9 110801.4 -0613.6  
 3337 10. 110832.0 -0611.4  
 3338 9.3 110843.4 -0642.0  
 3339 9.8 110844.8 -0623.0  
 3340 9.2 110857.9 -0621.0  
 3341 10. 110900.5 -0654.9  
 3342 9.6 110906.5 -0600.8  
 3343 9.3 110931.4 -0638.6

3344 6.5 110937.8 -0620.7  
 3345 9.2 110942.1 -0620.9  
 3346 9.2 111017.3 -0625.4  
 3347 9.8 111047.9 -0643.1  
 3348 9.1 111102.3 -0655.8  
 3349 9.5 111102.8 -0623.5  
 3350 8.7 111105.8 -0656.2  
 3351 10. 111111.1 -0628.8  
 3352 8.4 111113.9 -0607.2  
 3353 10. 111139.6 -0631.9

3354 10. 111141.8 -0654.2  
 3355 8.3 111201.4 -0647.0  
 3356 8.3 111222.9 -0606.3  
 3357 9.7 111237.3 -0654.5  
 3358 9.6 111318.9 -0635.6  
 3359 8.7 111344.9 -0605.6  
 3360 9.8 111358.2 -0655.0  
 3361 10. 111358.5 -0628.8  
 3362 9.5 111406.5 -0604.8  
 3363 9.0 111427.8 -0615.4

3364 10. 111439.8 -0643.5  
 3365 9.7 111440.5 -0646.6  
 3366 9.4 111455.9 -0609.4  
 3367 9.3 111521.9 -0607.0  
 3368 9.4 111524.9 -0639.0  
 3369 9.8 111537.3 -0625.5  
 3370 8.4 111630.0 -0621.0  
 3371 9.7 111631.7 -0651.3  
 3372 9.7 111728.2 -0608.4  
 3373 9.1 111755.5 -0623.3

3374 9.7 111802.7 -0602.8  
 3375 9.3 111821.9 -0627.3  
 3376 10. 111825.8 -0618.3  
 3377 9.1 111839.4 -0624.9  
 3378 9.5 111842.0 -0654.1  
 3379 8.0 111843.1 -0643.1  
 3380 8.2 111927.5 -0659.8  
 3381 9.5 111932.9 -0628.5  
 3382 9.5 111953.0 -0654.7  
 3383 10. 112004.6 -0618.1



|      |     |          |         |
|------|-----|----------|---------|
| 3384 | 9.4 | 112009.9 | -0605.1 |
| 3385 | 9.5 | 112036.7 | -0602.5 |
| 3386 | 9.5 | 112044.4 | -0656.4 |
| 3387 | 8.4 | 112048.5 | -0630.3 |
| 3388 | 9.1 | 112114.7 | -0604.3 |
| 3389 | 10. | 112116.5 | -0647.2 |
| 3390 | 9.8 | 112127.2 | -0625.8 |
| 3391 | 9.4 | 112156.5 | -0631.0 |
| 3392 | 9.3 | 112206.2 | -0639.3 |
| 3393 | 10. | 112213.5 | -0632.0 |
| 3394 | 9.4 | 112223.6 | -0606.2 |
| 3395 | 8.9 | 112240.7 | -0602.2 |
| 3396 | 9.0 | 112324.5 | -0621.1 |
| 3397 | 10. | 112354.5 | -0617.8 |
| 3398 | 9.1 | 112411.0 | -0612.4 |
| 3399 | 9.8 | 112417.4 | -0629.5 |
| 3400 | 9.5 | 112438.2 | -0642.2 |
| 3401 | 8.7 | 112444.9 | -0649.1 |
| 3402 | 9.8 | 112511.5 | -0657.9 |
| 3403 | 9.1 | 112513.0 | -0606.8 |
| 3404 | 9.0 | 112536.1 | -0636.2 |
| 3405 | 10. | 112543.4 | -0658.2 |
| 3406 | 9.3 | 112601.6 | -0625.6 |
| 3407 | 10. | 112608.7 | -0656.0 |
| 3408 | 9.7 | 112624.9 | -0658.9 |
| 3409 | 9.5 | 112636.0 | -0646.4 |
| 3410 | 9.8 | 112645.4 | -0612.2 |
| 3411 | 9.7 | 112658.7 | -0617.9 |
| 3412 | 9.8 | 112710.2 | -0647.7 |
| 3413 | 10. | 112721.6 | -0621.7 |
| 3414 | 9.7 | 112731.1 | -0651.0 |
| 3415 | 9.2 | 112812.2 | -0601.6 |
| 3416 | 9.5 | 112818.1 | -0631.8 |
| 3417 | 9.3 | 112838.8 | -0647.8 |
| 3418 | 9.8 | 112903.0 | -0653.9 |
| 3419 | 9.6 | 112926.2 | -0635.7 |
| 3420 | 9.0 | 112936.7 | -0600.9 |
| 3421 | 9.8 | 112951.0 | -0652.2 |
| 3422 | 7.8 | 113126.6 | -0648.1 |
| 3423 | 9.5 | 113138.1 | -0615.5 |
| 3424 | 9.3 | 113142.0 | -0659.7 |
| 3425 | 9.0 | 113156.7 | -0614.3 |
| 3426 | 9.0 | 113158.2 | -0636.5 |
| 3427 | 9.1 | 113213.5 | -0650.7 |
| 3428 | 9.3 | 113228.6 | -0642.1 |
| 3429 | 9.7 | 113251.0 | -0627.5 |
| 3430 | 9.0 | 113307.7 | -0637.4 |
| 3431 | 9.6 | 113347.1 | -0648.1 |
| 3432 | 9.4 | 113406.8 | -0632.0 |
| 3433 | 8.2 | 113420.0 | -0625.1 |
| 3434 | 8.5 | 113429.6 | -0608.3 |
| 3435 | 9.0 | 113445.9 | -0656.0 |
| 3436 | 9.2 | 113502.3 | -0649.2 |
| 3437 | 9.3 | 113518.0 | -0647.9 |
| 3438 | 9.8 | 113612.2 | -0605.0 |
| 3439 | 9.8 | 113624.5 | -0645.3 |
| 3440 | 9.2 | 113752.1 | -0602.6 |
| 3441 | 9.5 | 113820.9 | -0628.2 |
| 3442 | 9.5 | 113821.7 | -0626.8 |
| 3443 | 8.4 | 113845.9 | -0657.7 |
| 3444 | 9.8 | 113846.1 | -0629.6 |
| 3445 | 9.8 | 113918.6 | -0607.6 |
| 3446 | 9.5 | 114016.8 | -0655.1 |
| 3447 | 9.7 | 114019.4 | -0650.0 |
| 3448 | 9.0 | 114022.0 | -0612.0 |
| 3449 | 9.8 | 114054.5 | -0642.8 |
| 3450 | 9.2 | 114113.4 | -0616.6 |
| 3451 | 9.8 | 114113.8 | -0650.7 |
| 3452 | 9.1 | 114114.9 | -0614.8 |
| 3453 | 9.3 | 114143.0 | -0637.7 |
| 3454 | 9.8 | 114146.9 | -0646.7 |
| 3455 | 6.8 | 114146.9 | -0633.4 |
| 3456 | 7.5 | 114151.4 | -0605.3 |
| 3457 | 9.2 | 114214.9 | -0636.6 |
| 3458 | 8.7 | 114228.7 | -0647.1 |
| 3459 | 9.8 | 114238.0 | -0625.6 |
| 3460 | 8.0 | 114255.0 | -0634.4 |
| 3461 | 9.1 | 114308.8 | -0641.7 |
| 3462 | 9.8 | 114314.7 | -0604.6 |
| 3463 | 9.3 | 114328.7 | -0654.2 |
| 3464 | 9.6 | 114401.4 | -0655.8 |
| 3465 | 9.8 | 114401.5 | -0654.2 |
| 3466 | 9.0 | 114422.5 | -0647.1 |
| 3467 | 8.9 | 114439.1 | -0604.1 |
| 3468 | 9.6 | 114450.3 | -0638.5 |
| 3469 | 9.2 | 114520.3 | -0647.5 |
| 3470 | 10. | 114536.1 | -0620.9 |
| 3471 | 9.4 | 114601.2 | -0644.4 |
| 3472 | 9.6 | 114611.7 | -0602.9 |
| 3473 | 10. | 114625.3 | -0637.5 |
| 3474 | 8.8 | 114647.2 | -0641.3 |
| 3475 | 8.3 | 114650.1 | -0634.8 |
| 3476 | 9.4 | 114651.1 | -0608.2 |
| 3477 | 9.4 | 114755.8 | -0630.7 |
| 3478 | 9.1 | 114756.0 | -0625.5 |
| 3479 | 9.1 | 114850.6 | -0619.7 |
| 3480 | 10. | 114923.5 | -0616.3 |
| 3481 | 9.1 | 114950.1 | -0610.6 |
| 3482 | 9.6 | 114957.2 | -0651.1 |
| 3483 | 10. | 114958.8 | -0620.7 |
| 3484 | 9.8 | 115020.7 | -0608.4 |
| 3485 | 9.0 | 115040.3 | -0609.9 |
| 3486 | 9.1 | 115048.2 | -0626.5 |
| 3487 | 9.0 | 115101.4 | -0649.3 |
| 3488 | 9.3 | 115135.7 | -0648.2 |
| 3489 | 9.2 | 115209.1 | -0609.6 |
| 3490 | 10. | 115217.1 | -0603.0 |
| 3491 | 9.5 | 115220.2 | -0624.1 |
| 3492 | 8.3 | 115229.7 | -0649.8 |
| 3493 | 8.8 | 115324.0 | -0614.8 |
| 3494 | 9.5 | 115404.1 | -0600.6 |
| 3495 | 10. | 115428.0 | -0619.1 |
| 3496 | 9.0 | 115451.5 | -0611.9 |
| 3497 | 8.6 | 115458.6 | -0630.1 |
| 3498 | 9.5 | 115525.3 | -0637.4 |
| 3499 | 6.3 | 115526.7 | -0652.5 |
| 3500 | 10. | 115621.0 | -0654.1 |
| 3501 | 8.9 | 115626.0 | -0607.5 |
| 3502 | 9.5 | 115635.1 | -0647.3 |
| 3503 | 9.4 | 115651.5 | -0608.0 |
| 3504 | 9.6 | 115700.2 | -0602.1 |
| 3505 | 9.1 | 115837.5 | -0630.9 |
| 3506 | 10. | 115932.7 | -0653.1 |
| 3507 | 10. | 115933.5 | -0656.8 |
| 3508 | 9.0 | 115957.0 | -0643.2 |
| 3509 | 8.6 | 120108.6 | -0602.6 |
| 3510 | 9.9 | 120118.1 | -0607.8 |
| 3511 | 9.6 | 120132.2 | -0635.0 |
| 3512 | 9.4 | 120136.8 | -0646.5 |
| 3513 | 9.3 | 120156.0 | -0604.1 |
| 3514 | 9.5 | 120156.3 | -0650.3 |
| 3515 | 9.4 | 120158.6 | -0618.2 |
| 3516 | 9.4 | 120214.6 | -0613.0 |
| 3517 | 8.7 | 120247.9 | -0614.7 |
| 3518 | 6.4 | 120300.8 | -0657.9 |
| 3519 | 9.1 | 120322.0 | -0645.8 |
| 3520 | 9.9 | 120339.3 | -0631.8 |
| 3521 | 9.2 | 120411.5 | -0648.1 |
| 3522 | 9.4 | 120434.6 | -0605.0 |
| 3523 | 9.5 | 120440.2 | -0631.7 |
| 3524 | 8.6 | 120448.2 | -0611.6 |
| 3525 | 9.8 | 120452.1 | -0620.7 |
| 3526 | 9.8 | 120456.3 | -0608.9 |
| 3527 | 10. | 120503.2 | -0648.1 |
| 3528 | 8.8 | 120549.6 | -0654.4 |
| 3529 | 9.9 | 120628.0 | -0624.9 |
| 3530 | 9.9 | 120628.9 | -0629.2 |
| 3531 | 9.2 | 120657.1 | -0657.5 |
| 3532 | 7.4 | 120742.0 | -0627.0 |
| 3533 | 9.5 | 120743.0 | -0628.4 |
| 3534 | 9.9 | 120743.4 | -0638.0 |
| 3535 | 10. | 120756.5 | -0619.3 |
| 3536 | 9.5 | 120757.3 | -0610.8 |
| 3537 | 8.8 | 120839.2 | -0639.7 |
| 3538 | 8.3 | 120855.6 | -0643.5 |
| 3539 | 9.2 | 120910.5 | -0602.1 |
| 3540 | 9.5 | 120914.1 | -0649.1 |
| 3541 | 8.9 | 120935.6 | -0630.4 |
| 3542 | 9.5 | 121011.5 | -0644.9 |
| 3543 | 8.8 | 121016.1 | -0645.8 |
| 3544 | 9.5 | 121034.5 | -0633.5 |
| 3545 | 10. | 121143.0 | -0652.9 |
| 3546 | 9.2 | 121153.4 | -0635.6 |
| 3547 | 8.5 | 121240.6 | -0616.0 |
| 3548 | 8.7 | 121259.0 | -0648.7 |
| 3549 | 10. | 121355.0 | -0658.9 |
| 3550 | 9.3 | 121357.2 | -0627.3 |
| 3551 | 9.4 | 121409.5 | -0640.3 |
| 3552 | 9.1 | 121410.1 | -0634.9 |
| 3553 | 9.4 | 121431.5 | -0654.7 |
| 3554 | 9.7 | 121441.9 | -0604.6 |
| 3555 | 8.8 | 121448.6 | -0616.0 |
| 3556 | 10. | 121456.5 | -0608.6 |
| 3557 | 6.8 | 121541.8 | -0629.6 |
| 3558 | 9.0 | 121555.5 | -0600.6 |
| 3559 | 8.8 | 121556.7 | -0614.4 |
| 3560 | 9.5 | 121615.4 | -0624.9 |
| 3561 | 9.3 | 121617.5 | -0631.0 |
| 3562 | 9.4 | 121631.5 | -0642.2 |
| 3563 | 9.5 | 121716.5 | -0639.1 |
| 3564 | 9.0 | 121741.4 | -0645.3 |
| 3565 | 8.8 | 121808.2 | -0648.9 |
| 3566 | 9.4 | 121810.7 | -0629.0 |
| 3567 | 9.1 | 121819.2 | -0611.2 |
| 3568 | 9.6 | 121826.3 | -0631.0 |
| 3569 | 10. | 121845.6 | -0604.1 |
| 3570 | 8.0 | 121851.4 | -0631.3 |
| 3571 | 8.8 | 121920.9 | -0655.1 |
| 3572 | 9.5 | 121930.0 | -0621.3 |
| 3573 | 9.8 | 122006.4 | -0611.7 |
| 3574 | 9.0 | 122013.4 | -0646.7 |
| 3575 | 9.3 | 122022.7 | -0612.5 |
| 3576 | 9.1 | 122030.9 | -0655.0 |
| 3577 | 8.4 | 122032.4 | -0645.8 |
| 3578 | 8.9 | 122036.7 | -0607.1 |
| 3579 | 9.1 | 122106.8 | -0633.0 |
| 3580 | 9.6 | 122121.1 | -0643.0 |
| 3581 | 9.4 | 122141.9 | -0602.5 |
| 3582 | 9.9 | 122227.0 | -0620.7 |
| 3583 | 8.5 | 122237.9 | -0611.2 |
| 3584 | 9.0 | 122241.8 | -0604.7 |
| 3585 | 9.4 | 122306.6 | -0635.1 |
| 3586 | 9.4 | 122318.0 | -0627.7 |
| 3587 | 9.0 | 122348.8 | -0651.8 |
| 3588 | 9.5 | 122505.3 | -0630.3 |
| 3589 | 8.7 | 122543.7 | -0628.0 |
| 3590 | 9.5 | 122613.2 | -0632.4 |
| 3591 | 9.5 | 122619.5 | -0645.9 |
| 3592 | 10. | 122649.4 | -0620.1 |
| 3593 | 9.4 | 122659.3 | -0624.1 |
| 3594 | 9.5 | 122720.3 | -0617.6 |
| 3595 | 9.7 | 122729.1 | -0614.3 |
| 3596 | 9.3 | 122738.3 | -0656.7 |
| 3597 | 9.5 | 122803.3 | -0624.1 |
| 3598 | 8.0 | 122815.4 | -0638.8 |
| 3599 | 9.5 | 122826.8 | -0656.3 |
| 3600 | 9.2 | 122830.7 | -0604.7 |
| 3601 | 9.5 | 122840.0 | -0615.6 |
| 3602 | 10. | 122902.4 | -0643.5 |
| 3603 | 9.2 | 122907.6 | -0627.8 |
| 3604 | 9.1 | 122920.2 | -0657.1 |
| 3605 | 9.4 | 122925.0 | -0641.6 |
| 3606 | 10. | 122934.9 | -0644.8 |
| 3607 | 9.8 | 122939.9 | -0608.0 |
| 3608 | 9.8 | 122943.1 | -0631.9 |
| 3609 | 9.7 | 123017.8 | -0655.0 |
| 3610 | 9.5 | 123030.0 | -0641.6 |
| 3611 | 9.5 | 123033.0 | -0613.4 |
| 3612 | 9.0 | 123040.5 | -0615.5 |
| 3613 | 9.8 | 123044.9 | -0647.5 |
| 3614 | 9.5 | 123046.8 | -0611.3 |
| 3615 | 9.5 | 123156.1 | -0609.5 |
| 3616 | 9.4 | 123158.1 | -0633.4 |
| 3617 | 8.6 | 123200.7 | -0608.0 |
| 3618 | 9.5 | 123203.1 | -0633.6 |
| 3619 | 9.4 | 123223.3 | -0619.7 |
| 3620 | 8.8 | 123237.5 | -0615.6 |
| 3621 | 10. | 123316.2 | -0617.7 |
| 3622 | 9.0 | 123327.8 | -0623.0 |
| 3623 | 9.5 | 123332.7 | -0658.1 |
| 3624 | 9.0 | 123354.5 | -0635.2 |
| 3625 | 9.2 | 123401.2 | -0648.9 |
| 3626 | 7.0 | 123428.3 | -0642.1 |
| 3627 | 9.2 | 123456.2 | -0648.8 |
| 3628 | 9.1 | 123509.1 | -0625.2 |
| 3629 | 10. | 123515.4 | -0614.0 |
| 3630 | 9.2 | 123520.4 | -0613.6 |
| 3631 | 9.3 | 123524.5 | -0611.6 |
| 3632 | 9.1 | 123532.7 | -0658.3 |
| 3633 | 9.9 | 123533.6 | -0644.6 |
| 3634 | 9.8 | 123626.1 | -0616.0 |
| 3635 | 9.5 | 123632.7 | -0658.2 |
| 3636 | 9.1 | 123633.0 | -0628.5 |
| 3637 | 9.5 | 123736.2 | -0656.6 |
| 3638 | 8.9 | 123738.5 | -0609.3 |
| 3639 | 9.6 | 123801.0 | -0627.2 |
| 3640 | 10. | 123834.8 | -0651.0 |
| 3641 | 9.7 | 123837.2 | -0637.6 |
| 3642 | 9.3 | 123854.8 | -0631.2 |
| 3643 | 9.4 | 123929.2 | -0639.6 |
| 3644 | 7.8 | 123929.9 | -0659.9 |
| 3645 | 9.5 | 123938.0 | -0601.5 |
| 3646 | 9.5 | 123955.0 | -0630.9 |
| 3647 | 10. | 123955.8 | -0648.9 |
| 3648 | 9.8 | 123957.2 | -0651.2 |
| 3649 | 9.3 | 124009.7 | -0620.6 |
| 3650 | 9.2 | 124011.4 | -0622.4 |



-06 3744 13h01m

3744 9.5 130106.9 -0644.0  
3745 9.0 130113.7 -0616.4  
3746 9.5 130118.4 -0600.9  
3747 9.1 130201.0 -0626.3  
3748 9.5 130207.6 -0636.0  
3749 9.4 130211.3 -0638.7  
3750 7.2 130213.5 -0652.7  
3751 10. 130216.9 -0615.0  
3752 9.2 130237.7 -0620.9  
3753 10. 130314.6 -0623.0

3754 9.7 130333.5 -0640.7  
3755 9.8 130336.8 -0650.2  
3756 8.8 130342.3 -0654.3  
3757 9.2 130343.5 -0601.9  
3758 9.2 130406.2 -0637.3  
3759 10. 130409.9 -0603.9  
3760 8.5 130413.3 -0616.6  
3761 10. 130416.4 -0612.0  
3762 9.3 130439.6 -0607.0  
3763 9.5 130450.6 -0629.3

3764 9.5 130500.5 -0604.8  
3765 8.9 130510.3 -0651.7  
3766 9.2 130554.7 -0657.7  
3767 9.2 130554.7 -0647.4  
3768 9.2 130603.3 -0645.8  
3769 8.5 130615.9 -0609.1  
3770 9.2 130643.4 -0602.7  
3771 9.5 130644.1 -0652.3  
3772 9.5 130724.8 -0610.3  
3773 8.9 130828.7 -0657.2

3774 10. 130901.7 -0620.4  
3775 10. 130915.9 -0623.9  
3776 7.4 130916.1 -0610.0  
3777 9.4 130921.2 -0636.1  
3778 9.2 130925.6 -0631.5  
3779 9.5 130944.9 -0609.3  
3780 9.5 130948.8 -0618.5  
3781 10. 131106.1 -0611.9  
3782 10. 131134.0 -0645.2  
3783 9.5 131145.3 -0643.8

3784 8.8 131152.3 -0617.7  
3785 9.7 131224.9 -0658.7  
3786 9.8 131230.4 -0622.3  
3787 9.8 131236.6 -0614.6  
3788 8.8 131300.8 -0643.3  
3789 9.5 131311.0 -0624.1  
3790 9.6 131336.3 -0631.3  
3791 9.4 131339.9 -0604.0  
3792 9.4 131344.4 -0604.5  
3793 9.2 131346.3 -0656.5

3794 9.8 131408.9 -0604.0  
3795 8.8 131416.4 -0659.0  
3796 8.3 131448.2 -0646.8  
3797 9.3 131505.4 -0646.5  
3798 9.9 131521.5 -0641.8  
3799 10. 131530.5 -0613.6  
3800 9.6 131540.7 -0647.7  
3801 10. 131555.7 -0608.9  
3802 9.5 131556.3 -0657.7  
3803 10. 131604.9 -0610.0

3804 9.3 131605.4 -0650.3  
3805 10. 131620.8 -0624.7  
3806 10. 131631.1 -0622.7  
3807 8.0 131715.3 -0605.0  
3808 9.0 131723.4 -0620.2  
3809 9.5 131729.0 -0656.2  
3810 9.1 131730.1 -0624.0  
3811 8.2 131744.8 -0649.4  
3812 10. 131756.7 -0601.6  
3813 9.4 131814.2 -0610.4

3814 9.5 131821.3 -0602.4  
3815 9.2 131839.0 -0600.8  
3816 9.2 131844.5 -0620.5  
3817 9.2 131932.9 -0627.7  
3818 9.9 132002.9 -0605.8  
3819 8.0 132009.6 -0603.6  
3820 9.1 132028.3 -0616.4  
3821 9.0 132045.6 -0654.8  
3822 9.3 132120.1 -0616.5  
3823 9.8 132140.4 -0607.3

3824 9.5 132212.0 -0617.2  
3825 9.1 132217.1 -0649.9  
3826 10. 132247.7 -0652.8  
3827 8.7 132248.6 -0657.1  
3828 10. 132323.0 -0611.4  
3829 9.6 132340.0 -0604.7  
3830 9.7 132408.4 -0615.2  
3831 9.9 132411.6 -0653.4  
3832 8.9 132421.7 -0650.7  
3833 9.3 132442.2 -0629.5

3834 8.5 132445.4 -0641.1  
3835 9.5 132450.1 -0629.9  
3836 9.1 132502.2 -0634.1  
3837 30.0 132525.9 -0626.9  
3838 9.7 132547.4 -0610.9  
3839 7.0 132550.3 -0652.7  
3840 9.1 132615.8 -0632.1  
3841 10. 132651.5 -0602.0  
3842 9.4 132704.1 -0651.2  
3843 8.1 132730.5 -0613.3

3844 9.5 132757.0 -0626.1  
3845 9.4 132803.6 -0610.1  
3846 9.8 132817.6 -0637.1  
3847 9.4 132840.3 -0614.3  
3848 10. 132848.2 -0628.8  
3849 9.4 132855.6 -0613.2  
3850 8.6 132938.9 -0633.7  
3851 9.8 132951.6 -0626.5  
3852 9.2 133029.1 -0642.2  
3853 9.4 133045.5 -0603.3

3854 9.4 133049.2 -0635.5  
3855 8.7 133057.5 -0652.0  
3856 9.5 133130.5 -0614.2  
3857 9.5 133149.1 -0623.6  
3858 9.8 133150.5 -0658.8  
3859 9.5 133208.0 -0658.5  
3860 9.8 133210.5 -0630.1  
3861 9.5 133215.4 -0608.8  
3862 9.8 133228.6 -0638.8  
3863 9.5 133301.4 -0605.7

3864 9.5 133305.5 -0601.9  
3865 9.5 133320.4 -0602.2  
3866 9.8 133320.4 -0639.0  
3867 9.5 133323.1 -0637.0  
3868 8.0 133412.5 -0643.8  
3869 9.4 133416.5 -0652.8  
3870 8.3 133427.4 -0613.6  
3871 9.7 133440.5 -0654.0  
3872 9.7 133510.0 -0657.7  
3873 9.3 133522.6 -0634.3

3874 9.4 133528.3 -0635.0  
3875 8.2 133500.0 -0641.6  
3876 9.1 133607.0 -0638.7  
3877 9.8 133720.5 -0642.8  
3878 6.8 133721.4 -0654.2  
3879 9.7 133726.6 -0605.6  
3880 9.5 133822.9 -0658.7  
3881 9.5 133847.3 -0624.1  
3882 9.9 133933.5 -0642.2  
3883 9.4 133947.9 -0619.2

3884 9.2 133955.4 -0656.1  
3885 9.9 134016.5 -0604.1  
3886 9.9 134036.6 -0621.0  
3887 6.5 134042.9 -0606.8  
3888 9.8 134104.0 -0647.1  
3889 9.7 134137.3 -0625.4  
3890 8.8 134206.9 -0648.3  
3891 9.2 134228.5 -0629.7  
3892 7.5 134255.9 -0657.2  
3893 8.0 134301.5 -0626.8

3894 9.5 134329.8 -0624.1  
3895 9.4 134348.9 -0644.2  
3896 9.0 134353.5 -0632.0  
3897 7.7 134408.8 -0627.0  
3898 9.8 134415.8 -0641.2  
3899 10. 134426.8 -0651.5  
3900 10. 134453.7 -0634.2  
3901 9.2 134504.1 -0632.2  
3902 10. 134521.3 -0622.6  
3903 10. 134824.3 -0658.5

3904 9.0 134834.7 -0635.6  
3905 9.4 134851.8 -0649.0  
3906 8.8 134855.8 -0630.9  
3907 9.2 134908.8 -0635.4  
3908 9.8 134923.4 -0644.3  
3909 9.5 135043.2 -0626.5  
3910 8.3 135047.7 -0609.8  
3911 6.5 135123.0 -0612.9  
3912 9.0 135141.2 -0657.5  
3913 9.1 135242.3 -0603.8

3914 9.5 135248.3 -0625.7  
3915 9.8 135250.2 -0657.4  
3916 8.8 135252.7 -0634.8  
3917 8.0 135317.7 -0602.5  
3918 8.5 135329.1 -0624.8  
3919 10. 135347.7 -0656.4  
3920 10. 135505.7 -0653.0  
3921 7.5 135541.0 -0626.3  
3922 9.9 135543.2 -0658.9  
3923 9.6 135551.7 -0600.3

3924 8.8 135626.7 -0638.8  
3925 8.8 135631.2 -0605.4  
3926 9.5 135652.8 -0654.1  
3927 9.5 135701.5 -0652.5  
3928 9.7 135716.0 -0646.2  
3929 8.2 135722.6 -0611.0  
3930 7.9 135736.0 -0634.9  
3931 9.5 135747.5 -0623.7  
3932 10. 135811.7 -0640.0  
3933 8.8 135830.1 -0652.9

3934 10. 135843.2 -0644.0  
3935 9.5 135915.7 -0611.4  
3936 9.2 135938.2 -0655.3  
3937 9.5 135952.2 -0653.6  
3938 9.2 140004.6 -0615.3  
3939 9.8 140109.2 -0656.5  
3940 9.8 140112.0 -0607.0  
3941 9.3 140134.6 -0607.5  
3942 10. 140136.7 -0638.1  
3943 9.0 140202.3 -0641.5

3944 8.8 140220.3 -0628.4  
3945 9.1 140229.2 -0640.8  
3946 9.7 140240.1 -0611.6  
3947 9.3 140305.7 -0642.0  
3948 9.8 140401.2 -0649.8  
3949 9.8 140413.4 -0640.5  
3950 9.3 140552.5 -0617.2  
3951 9.4 140625.2 -0646.8  
3952 8.0 140639.0 -0622.4  
3953 9.1 140726.7 -0646.3

3954 10. 140733.7 -0659.6  
3955 7.2 140803.5 -0659.1  
3956 10. 140805.5 -0649.7  
3957 8.5 140822.1 -0622.9  
3958 10. 140840.8 -0643.8  
3959 9.2 140850.6 -0613.3  
3960 8.0 140857.4 -0647.7  
3961 9.5 140945.2 -0646.6  
3962 9.5 141014.2 -0642.8  
3963 9.7 141019.1 -0658.4

3964 6.5 141019.6 -0651.3  
3965 7.5 141103.5 -0620.6  
3966 10. 141106.6 -0655.9  
3967 10. 141122.9 -0632.8  
3968 10. 141131.8 -0614.4  
3969 9.8 141152.6 -0658.0  
3970 9.0 141145.6 -0631.6  
3971 10. 141200.6 -0623.7  
3972 6.5 141216.1 -0604.2  
3973 9.3 141218.5 -0611.1

3974 10. 141231.0 -0656.4  
3975 10. 141246.1 -0629.7  
3976 9.6 141256.9 -0627.3  
3977 9.0 141300.8 -0646.9  
3978 9.3 141308.6 -0656.7  
3979 9.5 141328.0 -0615.4  
3980 9.4 141331.5 -0618.2  
3981 9.0 141410.5 -0605.5  
3982 9.5 141421.6 -0651.3  
3983 8.7 141450.6 -0656.7

3984 9.7 141501.2 -0654.0  
3985 10. 141513.7 -0658.0  
3986 9.8 141515.6 -0625.7  
3987 9.7 141557.5 -0648.2  
3988 10. 141559.4 -0634.0  
3989 9.4 141618.2 -0652.7  
3990 8.8 141629.4 -0624.8  
3991 8.8 141652.5 -0604.0  
3992 9.5 141702.5 -0609.0  
3993 8.5 141707.7 -0620.8

3994 10. 141719.8 -0614.5  
3995 9.3 141729.9 -0656.0  
3996 9.5 141751.4 -0657.3  
3997 9.7 141753.4 -0636.4  
3998 9.6 141823.2 -0648.7  
3999 10. 141825.5 -0650.4  
4000 8.5 141841.5 -0640.2  
4001 9.5 141848.0 -0658.8  
4002 9.5 141850.4 -0647.9  
4003 9.5 141859.0 -0628.6

4004 9.1 141900.6 -0612.5  
4005 10. 141905.5 -0640.2  
4006 9.8 141928.8 -0647.9  
4007 9.4 141938.8 -0629.2  
4008 9.4 142049.9 -0615.2  
4009 5.7 142104.1 -0614.5  
4010 9.1 142115.5 -0637.7  
4011 9.1 142153.4 -0622.5  
4012 8.2 142229.1 -0625.5  
4013 9.1 142249.5 -0652.0

-06 4103 14h47m

4014 9.3 142257.4 -0620.4  
4015 9.1 142316.4 -0650.8  
4016 10. 142332.5 -0639.7  
4017 9.6 142334.8 -0626.0  
4018 9.8 142340.6 -0603.9  
4019 10. 142341.0 -0626.1  
4020 9.5 142359.0 -0656.0  
4021 8.4 142439.8 -0653.5  
4022 9.2 142451.8 -0633.9  
4023 8.6 142509.8 -0634.1

4024 9.3 142519.5 -0654.4  
4025 7.8 142541.9 -0617.5  
4026 8.0 142600.3 -0613.3  
4027 9.8 142606.4 -0628.1  
4028 9.9 142613.6 -0610.2  
4029 8.9 142625.3 -0638.9  
4030 10. 142650.0 -0647.9  
4031 9.0 142733.4 -0644.5  
4032 9.6 142746.1 -0622.8  
4033 9.1 142751.7 -0633.7

4034 9.0 142816.1 -0636.3  
4035 9.0 142850.9 -0648.7  
4036 9.5 142937.1 -0643.4  
4037 9.5 143037.1 -0621.0  
4038 9.2 143041.8 -0606.0  
4039 9.2 143051.1 -0619.4  
4040 9.5 143051.3 -0612.6  
4041 7.8 143056.3 -0631.8  
4042 9.8 143107.0 -0629.2  
4043 9.4 143114.3 -0608.2

4044 9.6 143125.6 -0626.3  
4045 9.3 143131.0 -0638.5  
4046 9.1 143140.1 -0654.8  
4047 9.8 143221.8 -0634.6  
4048 8.3 143225.3 -0618.8  
4049 9.0 143233.6 -0653.9  
4050 9.0 143304.1 -0652.1  
4051 9.5 143305.1 -0609.6  
4052 9.7 143325.1 -0653.1  
4053 9.8 143338.1 -0649.6

4054 9.5 143359.1 -0629.0  
4055 8.8 143417.8 -0614.0  
4056 9.6 143517.8 -0621.1  
4057 8.5 143517.8 -0611.0  
4058 9.6 143541.0 -0632.5  
4059 9.6 143544.5 -0608.0  
4060 8.2 143611.7 -0603.9  
4061 9.5 143639.8 -0604.9  
4062 9.5 143700.0 -0652.3  
4063 9.2 143701.3 -0634.9

4064 9.5 143721.0 -0659.0  
4065 9.3 143725.2 -0652.0  
4066 8.9 143731.1 -0616.7  
4067 8.1 143737.0 -0634.4  
4068 7.8 143741.7 -0607.1  
4069 10. 143757.5 -0641.5  
4070 9.0 143803.4 -0627.8  
4071 7.9 143841.1 -0646.1  
4072 9.5 143851.2 -0657.1  
4073 9.8 143932.7 -0652.9

4074 9.5 143950.3 -0630.2  
4075 9.0 144003.3 -0641.0  
4076 9.7 144013.7 -0621.7  
4077 7.8 144100.6 -0629.8  
4078 10. 144112.2 -0658.3  
4079 9.5 144114.2 -0600.3  
4080 9.8 144124.8 -0648.7  
4081 9.8 144210.2 -0645.6  
4082 8.9 144222.9 -0617.6  
4083 8.3 144223.2 -0633.7

4084 8.9 144227.2 -0603.9  
4085 10. 144228.7 -0647.6  
4086 9.7 144236.8 -0626.9  
4087 9.0 144258.2 -0640.0  
4088 9.6 144321.9 -0619.9  
4089 9.8 144338.6 -0650.1  
4090 9.5 144344.2 -0615.6  
4091 9.0 144411.1 -0607.5  
4092 9.8 144422.6 -0620.4  
4093 8.5 144423.0 -0647.9

4094 9.6 144432.1 -0659.5  
4095 9.3 144503.0 -0619.9  
4096 9.6 144508.8 -0630.5  
4097 8.7 144530.6 -0638.1  
4098 8.8 144550.2 -0636.8  
4099 9.7 144550.2 -0627.1  
4100 9.6 144604.1 -0645.1  
4101 8.3 144651.2 -0648.1  
4102 8.0 144731.7 -0641.9  
4103 9.4 144736.6 -0620.6



4104 9.3 144755.6 -0602.4  
 4105 9.5 144827.1 -0646.9  
 4106 9.5 144841.7 -0628.8  
 4107 9.4 144903.6 -0649.3  
 4108 9.5 144907.6 -0620.7  
 4109 9.8 144928.9 -0620.0  
 4110 9.3 144951.2 -0643.9  
 4111 9.4 145003.5 -0609.4  
 4112 9.8 145022.2 -0636.2  
 4113 9.8 145035.3 -0656.7

4114 9.0 145112.1 -0643.5  
 4115 9.1 145139.5 -0657.4  
 4116 9.8 145223.4 -0643.2  
 4117 9.2 145230.0 -0656.0  
 4118 9.6 145251.6 -0635.0  
 4119 9.3 145338.1 -0651.1  
 4120 9.7 145428.8 -0636.5  
 4121 9.7 145449.2 -0652.8  
 4122 9.4 145516.4 -0628.4  
 4123 9.8 145547.1 -0658.4

4124 8.0 145554.6 -0659.8  
 4125 7.7 145627.9 -0619.4  
 4126 9.8 145630.3 -0602.9  
 4127 9.5 145652.1 -0651.8  
 4128 9.5 145702.9 -0629.9  
 4129 9.4 145740.6 -0646.2  
 4130 7.3 145751.0 -0616.8  
 4131 9.3 145759.3 -0600.1  
 4132 9.0 145801.4 -0617.0  
 4133 9.5 145813.1 -0630.4

4134 9.6 145834.2 -0641.3  
 4135 10. 145918.5 -0657.0  
 4136 8.6 145923.3 -0602.7  
 4137 9.4 150004.4 -0610.5  
 4138 9.4 150037.6 -0647.8  
 4139 9.5 150101.0 -0646.0  
 4140 9.6 150108.0 -0615.1  
 4141 8.4 150114.6 -0601.1  
 4142 9.5 150121.3 -0621.2  
 4143 9.1 150121.5 -0651.3

4144 9.8 150124.2 -0614.9  
 4145 9.6 150130.2 -0612.5  
 4146 7.9 150214.6 -0639.7  
 4147 9.3 150258.2 -0659.5  
 4148 9.4 150258.9 -0634.5  
 4149 9.1 150300.7 -0634.0  
 4150 9.8 150350.7 -0618.9  
 4151 9.6 150414.5 -0652.6  
 4152 9.5 150420.1 -0617.5  
 4153 9.5 150428.9 -0631.8

4154 8.7 150432.1 -0614.5  
 4155 9.0 150442.1 -0606.6  
 4156 9.5 150531.0 -0644.6  
 4157 9.5 150538.6 -0603.7  
 4158 9.1 150543.0 -0641.5  
 4159 9.5 150647.5 -0649.8  
 4160 8.2 150659.0 -0655.8  
 4161 9.3 150720.9 -0627.7  
 4162 8.9 150753.4 -0637.3  
 4163 9.5 150759.1 -0609.6

4164 8.0 150822.6 -0611.5  
 4165 9.4 150833.9 -0622.5  
 4166 9.4 150839.6 -0633.8  
 4167 9.1 150849.0 -0641.5  
 4168 9.6 150851.0 -0645.4  
 4169 9.5 150929.9 -0640.2  
 4170 8.3 150949.0 -0657.9  
 4171 9.0 151046.9 -0653.0  
 4172 9.5 151049.0 -0658.8  
 4173 8.8 151117.5 -0640.7

4174 9.5 151147.6 -0619.0  
 4175 9.5 151221.6 -0612.2  
 4176 9.2 151246.5 -0609.7  
 4177 9.2 151254.9 -0652.4  
 4178 9.3 151259.0 -0639.5  
 4179 9.5 151321.4 -0643.5  
 4180 9.4 151323.0 -0625.5  
 4181 7.0 151326.1 -0605.2  
 4182 9.3 151342.9 -0654.6  
 4183 7.0 151352.4 -0617.7

4184 9.6 151352.4 -0623.2  
 4185 9.2 151357.5 -0603.1  
 4186 9.5 151401.8 -0647.0  
 4187 9.1 151405.8 -0639.7  
 4188 9.5 151441.1 -0627.2  
 4189 9.0 151442.8 -0646.8  
 4190 9.5 151510.9 -0624.6  
 4191 9.5 151512.0 -0601.5  
 4192 9.4 151539.1 -0615.8  
 4193 7.3 151543.5 -0604.9

4194 9.5 151621.1 -0656.5  
 4195 9.5 151648.8 -0646.2  
 4196 9.3 151653.2 -0632.3  
 4197 9.7 151725.4 -0627.6  
 4198 9.5 151746.0 -0623.7  
 4199 9.2 151805.5 -0644.2  
 4200 9.4 151810.1 -0627.8  
 4201 9.4 151811.1 -0617.8  
 4202 9.5 151823.0 -0655.3  
 4203 9.6 151840.6 -0647.5

4204 9.0 151859.2 -0638.2  
 4205 9.8 151902.8 -0627.7  
 4206 9.1 151916.7 -0632.9  
 4207 9.6 151918.5 -0626.6  
 4208 9.4 151947.9 -0650.3  
 4209 9.8 152015.4 -0630.1  
 4210 9.3 152021.6 -0648.6  
 4211 9.4 152022.9 -0659.2  
 4212 9.1 152034.5 -0609.7  
 4213 9.6 152048.2 -0600.1

4214 9.5 152109.5 -0614.6  
 4215 8.8 152110.7 -0607.9  
 4216 8.4 152128.9 -0628.3  
 4217 9.5 152204.1 -0659.0  
 4218 9.7 152217.9 -0634.6  
 4219 7.3 152221.5 -0620.8  
 4220 9.8 152221.5 -0609.5  
 4221 8.5 152247.0 -0607.2  
 4222 9.0 152249.2 -0658.8  
 4223 9.5 152305.4 -0609.5

4224 8.3 152407.6 -0639.3  
 4225 9.5 152410.6 -0647.8  
 4226 9.8 152412.5 -0632.5  
 4227 9.0 152419.6 -0646.7  
 4228 9.4 152457.2 -0634.9  
 4229 9.8 152503.1 -0644.0  
 4230 9.6 152528.5 -0632.6  
 4231 9.5 152534.5 -0610.9  
 4232 9.0 152545.5 -0602.0  
 4233 9.6 152551.1 -0641.1

4234 8.9 152555.0 -0642.5  
 4235 9.2 152621.9 -0602.0  
 4236 9.1 152675.8 -0639.2  
 4237 8.9 152644.2 -0623.8  
 4238 9.5 152644.6 -0648.3  
 4239 9.8 152654.6 -0622.7  
 4240 9.7 152705.3 -0639.4  
 4241 9.8 152800.6 -0648.0  
 4242 9.6 152816.8 -0645.1  
 4243 9.2 152822.0 -0643.5

4244 9.5 152825.9 -0602.2  
 4245 10. 152855.5 -0647.0  
 4246 10. 152902.0 -0656.2  
 4247 9.0 152939.2 -0604.1  
 4248 9.5 152917.9 -0607.6  
 4249 9.5 152936.8 -0620.8  
 4250 10. 153017.5 -0641.3  
 4251 9.5 153050.4 -0609.7  
 4252 9.5 153055.0 -0608.6  
 4253 9.3 153108.0 -0629.3

4254 9.4 153111.5 -0645.5  
 4255 9.4 153113.9 -0624.2  
 4256 9.4 153157.9 -0656.4  
 4257 9.5 153240.3 -0649.4  
 4258 8.8 153244.5 -0649.7  
 4259 9.1 153315.5 -0650.5  
 4260 9.5 153340.3 -0618.2  
 4261 9.5 153449.4 -0640.9  
 4262 9.5 153449.5 -0632.3  
 4263 9.8 153457.9 -0612.6

4264 9.5 153519.0 -0659.3  
 4265 9.5 153550.4 -0617.9  
 4266 9.6 153602.0 -0627.5  
 4267 9.5 153607.4 -0610.6  
 4268 9.0 153613.4 -0612.2  
 4269 9.0 153726.5 -0644.0  
 4270 9.5 153730.8 -0603.3  
 4271 10. 153736.5 -0655.6  
 4272 9.7 153801.4 -0651.8  
 4273 9.5 153815.4 -0616.4

4274 10. 153838.0 -0655.9  
 4275 9.5 153838.1 -0628.4  
 4276 9.5 153841.0 -0632.4  
 4277 10. 153846.5 -0639.8  
 4278 9.6 153847.5 -0648.7  
 4279 9.2 153929.4 -0602.8  
 4280 9.3 153933.9 -0655.6  
 4281 9.3 154028.8 -0638.8  
 4282 9.4 154119.1 -0637.0  
 4283 9.3 154154.1 -0622.6

4284 10. 154206.9 -0630.3  
 4285 9.6 154209.4 -0627.4  
 4286 9.5 154226.9 -0656.0  
 4287 9.1 154228.3 -0605.8  
 4288 9.0 154230.0 -0649.0  
 4289 9.8 154232.0 -0629.2  
 4290 9.1 154240.4 -0651.8  
 4291 9.1 154236.8 -0611.3  
 4292 9.5 154443.3 -0606.6  
 4293 9.3 154444.7 -0636.1

4294 9.8 154507.8 -0603.9  
 4295 9.8 154510.3 -0612.4  
 4296 9.9 154533.7 -0610.8  
 4297 9.5 154525.3 -0616.0  
 4298 9.5 154536.5 -0646.6  
 4299 9.5 154536.9 -0623.5  
 4300 9.8 154542.4 -0620.1  
 4301 9.8 154551.8 -0653.7  
 4302 9.2 154552.9 -0642.9  
 4303 9.4 154612.3 -0635.7

4304 9.5 154618.4 -0640.6  
 4305 9.8 154702.7 -0608.8  
 4306 9.2 154721.3 -0653.8  
 4307 9.2 154728.6 -0622.9  
 4308 9.8 154736.9 -0629.4  
 4309 9.4 154743.6 -0625.5  
 4310 9.3 154756.4 -0602.8  
 4311 9.8 154756.8 -0609.9  
 4312 9.0 154758.0 -0650.3  
 4313 9.1 154808.8 -0642.7

4314 9.1 154823.3 -0614.9  
 4315 10. 154914.9 -0652.1  
 4316 8.2 154916.7 -0633.1  
 4317 7.8 154923.4 -0624.0  
 4318 9.3 154949.9 -0649.7  
 4319 9.5 154951.4 -0624.1  
 4320 9.5 154951.7 -0646.6  
 4321 9.6 155000.4 -0627.4  
 4322 9.6 155022.0 -0629.4  
 4323 9.0 155028.9 -0615.2

4324 7.8 155050.8 -0616.9  
 4325 9.5 155057.3 -0611.2  
 4326 9.8 155100.4 -0639.2  
 4327 9.1 155100.2 -0649.4  
 4328 9.7 155142.9 -0656.7  
 4329 9.5 155148.8 -0653.0  
 4330 8.3 155154.9 -0653.0  
 4331 7.7 155205.9 -0636.0  
 4332 8.2 155217.9 -0642.4  
 4333 8.7 155222.7 -0626.1

4334 10. 155308.1 -0630.8  
 4335 10. 155311.4 -0657.6  
 4336 10. 155330.3 -0657.0  
 4337 8.4 155331.0 -0653.6  
 4338 8.9 155340.1 -0628.8  
 4339 9.8 155350.0 -0658.1  
 4340 10. 155407.2 -0644.0  
 4341 10. 155408.2 -0618.0  
 4342 8.7 155416.8 -0603.2  
 4343 9.0 155420.8 -0623.2

4344 9.6 155508.3 -0601.2  
 4345 9.6 155515.3 -0610.8  
 4346 9.4 155518.4 -0602.2  
 4347 9.5 155523.0 -0618.2  
 4348 9.8 155533.9 -0655.3  
 4349 9.8 155548.0 -0627.3  
 4350 9.6 155554.8 -0614.0  
 4351 9.9 155558.4 -0604.1  
 4352 9.5 155670.9 -0653.2  
 4353 9.6 155626.8 -0650.5

4354 9.3 155628.7 -0604.1  
 4355 9.4 155702.9 -0614.7  
 4356 9.0 155708.4 -0626.1  
 4357 9.1 155709.5 -0651.9  
 4358 9.0 155727.4 -0606.8  
 4359 9.5 155747.5 -0604.9  
 4360 8.2 155758.9 -0641.0  
 4361 9.6 155837.1 -0644.9  
 4362 9.1 155827.3 -0615.9  
 4363 9.6 155827.8 -0653.0

4364 9.3 155949.4 -0606.7  
 4365 9.5 155952.2 -0625.4  
 4366 9.8 160017.4 -0647.8  
 4367 9.6 160039.1 -0626.5  
 4368 9.1 160057.8 -0639.7  
 4369 9.5 160109.3 -0635.7  
 4370 8.3 160147.6 -0620.7  
 4371 10. 160148.5 -0639.5  
 4372 9.3 160158.3 -0609.8  
 4373 9.1 160204.8 -0633.5

4374 9.8 160217.4 -0655.4  
 4375 9.2 160316.4 -0605.0  
 4376 10. 160219.9 -0638.6  
 4377 9.0 160415.0 -0623.1  
 4378 9.4 160419.3 -0630.1  
 4379 9.5 160439.8 -0638.0  
 4380 9.5 160440.0 -0610.2  
 4381 10. 160452.9 -0651.0  
 4382 9.4 160502.3 -0627.7  
 4383 9.4 160521.4 -0636.2

4384 9.5 160533.4 -0650.1  
 4385 10. 160546.8 -0631.8  
 4386 8.0 160607.4 -0631.5  
 4387 9.4 160614.3 -0644.5  
 4388 8.9 160703.3 -0607.1  
 4389 9.9 160716.9 -0645.5  
 4390 9.5 160733.3 -0647.1  
 4391 8.0 160724.2 -0659.2  
 4392 9.2 160817.7 -0613.5  
 4393 9.1 160841.8 -0636.8

4394 10. 160858.2 -0646.9  
 4395 9.1 160944.6 -0619.4  
 4396 9.0 161039.3 -0638.0  
 4397 9.6 161050.9 -0643.1  
 4398 9.4 161104.4 -0616.5  
 4399 8.0 161118.6 -0657.5  
 4400 6.9 161123.7 -0630.9  
 4401 9.5 161157.6 -0616.3  
 4402 9.5 161158.0 -0655.7  
 4403 10. 161158.3 -0644.7

4404 8.8 161213.9 -0635.5  
 4405 9.5 161220.3 -0641.0  
 4406 9.8 161237.2 -0626.5  
 4407 9.2 161252.3 -0637.6  
 4408 9.4 161309.8 -0607.5  
 4409 9.0 161315.4 -0615.0  
 4410 10. 161337.3 -0654.5  
 4411 9.6 161404.2 -0653.2  
 4412 8.9 161409.8 -0647.3  
 4413 10. 161421.8 -0658.8

4414 9.3 161432.9 -0602.1  
 4415 9.5 161439.0 -0627.0  
 4416 8.9 161442.5 -0630.8  
 4417 9.8 161448.2 -0613.0  
 4418 9.0 161504.7 -0615.4  
 4419 7.3 161512.3 -0651.8  
 4420 8.9 161548.8 -0645.6  
 4421 10. 161611.2 -0653.7  
 4422 9.7 161625.8 -0603.7  
 4423 9.5 161628.0 -0620.4

4424 8.7 161629.4 -0604.3  
 4425 9.3 161636.5 -0622.7  
 4426 9.5 161734.3 -0651.8  
 4427 9.3 161739.8 -0651.0  
 4428 9.4 161741.7 -0645.3  
 4429 9.5 161805.3 -0626.4  
 4430 9.0 161818.8 -0626.9  
 4431 9.8 161827.2 -0658.1  
 4432 9.7 161853.3 -0653.2  
 4433 9.5 161855.2 -0657.9

4434 10. 161923.0 -0614.1  
 4435 9.2 161944.2 -0646.1  
 4436 9.9 162011.5 -0625.7  
 4437 10. 162023.6 -0630.5  
 4438 10. 162033.2 -0647.2  
 4439 9.4 162104.3 -0617.1  
 4440 9.8 162119.5 -0655.0  
 4441 9.5 162157.0 -0603.5  
 4442 9.6 162218.7 -0620.1  
 4443 9.5 162236.4 -0631.0

4444 9.1 162242.9 -0607.2  
 4445 9.8 162316.7 -0651.6  
 4446 7.9 162401.0 -0642.1  
 4447 10. 162404.6 -0659.0  
 4448 10. 162405.6 -0650.1  
 4449 9.8 162406.4 -0630.7  
 4450 9.0 162439.1 -0652.2  
 4451 9.1 162452.4 -0608.2  
 4452 9.7 162500.1 -0627.9  
 4453 9.3 162506.3 -0617.3

4454 9.4 162507.5 -0658.1  
 4455 9.3 162525.9 -0626.6  
 4456 8.6 162526.7 -0638.3  
 4457 9.6 162530.1 -0615.9  
 4458 9.5 162623.8 -0607.0  
 4459 8.2 162635.3 -0631.1  
 4460 9.8 162703.0 -0640.5  
 4461 9.6 162710.7 -0628.8  
 4462 9.5 162725.9 -0635.0  
 4463 9.6 162804.8 -0627.7



-06 4464 16h28m

4464 8.9 162810.0 -0653.6  
4465 10. 162830.8 -0553.2  
4466 9.5 162853.3 -0611.6  
4467 6.2 163015.7 -0614.2  
4468 9.1 163024.9 -0644.0  
4469 7.5 163038.0 -0651.1  
4470 9.2 163053.0 -0652.9  
4471 9.5 163056.8 -0613.0  
4472 9.7 163100.0 -0657.3  
4473 9.5 163105.0 -0620.5

4474 9.5 163131.3 -0611.8  
4475 9.2 163209.8 -0628.3  
4476 9.8 163228.4 -0639.8  
4477 9.6 163239.0 -0658.8  
4478 9.8 163247.4 -0605.6  
4479 9.8 163300.9 -0630.1  
4480 9.6 163309.0 -0647.8  
4481 9.7 163316.4 -0643.4  
4482 9.0 163356.8 -0626.0  
4483 9.4 163406.5 -0624.7

4484 9.4 163407.6 -0645.0  
4485 8.5 163420.8 -0639.4  
4486 9.2 163428.8 -0623.6  
4487 9.0 163430.8 -0657.5  
4488 9.4 163441.4 -0607.2  
4489 9.2 163443.1 -0607.4  
4490 9.1 163508.7 -0648.1  
4491 9.0 163615.7 -0613.6  
4492 9.5 163658.8 -0658.9  
4493 9.0 163708.5 -0601.8

4494 9.5 163712.7 -0649.5  
4495 9.6 163812.2 -0616.4  
4496 9.6 163832.1 -0656.9  
4497 8.1 163922.8 -0642.4  
4498 9.5 163925.7 -0619.3  
4499 8.4 163940.9 -0604.3  
4500 9.5 164004.2 -0659.5  
4501 9.5 164034.6 -0641.4  
4502 9.4 164054.0 -0634.0  
4503 9.2 164057.6 -0613.1

4504 9.3 164124.8 -0332.1  
4505 9.6 164151.9 -0611.9  
4506 9.0 164246.6 -0638.0  
4507 9.5 164334.4 -0629.6  
4508 9.1 164418.0 -0621.6  
4509 9.4 164426.1 -0635.1  
4510 9.8 164429.9 -0611.6  
4511 9.5 164556.2 -0646.5  
4512 9.5 164603.5 -0647.8  
4513 8.5 164631.3 -0627.9

4514 9.4 164701.2 -0611.5  
4515 9.4 164718.3 -0627.6  
4516 7.0 164720.7 -0624.8  
4517 9.5 164727.9 -0623.9  
4518 9.4 164729.0 -0630.5  
4519 9.2 164742.8 -0605.2  
4520 9.3 164752.4 -0647.0  
4521 9.8 164800.1 -0638.7  
4522 8.9 164810.9 -0658.8  
4523 9.8 164819.4 -0650.0

4524 9.7 164836.0 -0631.8  
4525 9.7 164837.5 -0626.5  
4526 9.8 165005.5 -0630.6  
4527 9.8 165026.2 -0654.8  
4528 9.4 165032.6 -0647.0  
4529 9.4 165104.7 -0630.0  
4530 9.8 165109.6 -0633.1  
4531 9.3 165123.0 -0620.3  
4532 9.4 165128.3 -0631.9  
4533 9.4 165128.8 -0636.0

4534 9.5 165203.7 -0653.6  
4535 9.8 165245.3 -0638.5  
4536 9.9 165248.4 -0643.4  
4537 8.3 165300.0 -0620.8  
4538 7.3 165325.6 -0648.7  
4539 7.2 165347.5 -0630.9  
4540 9.5 165449.7 -0654.5  
4541 9.1 165458.6 -0618.4  
4542 7.2 165511.2 -0608.3  
4543 9.5 165533.2 -0658.1

4544 9.5 165559.0 -0617.3  
4545 9.4 165656.1 -0642.1  
4546 8.8 165733.2 -0654.2  
4547 9.4 165751.0 -0642.0  
4548 9.3 165757.3 -0627.0  
4549 9.5 165848.5 -0631.5  
4550 9.5 165921.0 -0601.8  
4551 9.8 165933.5 -0636.5  
4552 9.2 165950.9 -0614.1  
4553 9.3 170036.3 -0621.9

4554 9.8 170038.0 -0604.8  
4555 8.9 170058.2 -0612.3  
4556 9.7 170104.0 -0640.8  
4557 9.4 170111.3 -0614.6  
4558 9.4 170140.3 -0613.9  
4559 8.9 170148.3 -0617.6  
4560 9.2 170155.0 -0635.7  
4561 9.4 170205.3 -0626.2  
4562 9.3 170213.9 -0601.6  
4563 9.3 170224.9 -0658.8

4564 9.4 170325.6 -0652.7  
4565 8.5 170335.7 -0626.9  
4566 9.4 170403.1 -0640.8  
4567 9.5 170419.9 -0605.6  
4568 9.5 170529.1 -0615.7  
4569 9.4 170539.5 -0639.3  
4570 9.1 170649.8 -0620.2  
4571 8.2 170738.3 -0620.0  
4572 9.8 170756.1 -0606.3  
4573 9.2 170801.5 -0641.4

4574 9.5 170849.6 -0652.3  
4575 5.8 170856.6 -0604.7  
4576 9.2 170856.6 -0647.0  
4577 8.0 170923.5 -0637.7  
4578 9.5 171100.0 -0641.9  
4579 8.9 171133.2 -0626.2  
4580 8.5 171211.6 -0616.4  
4581 8.5 171253.6 -0657.4  
4582 9.0 171307.1 -0601.2  
4583 9.0 171346.0 -0656.5

4584 10. 171351.6 -0629.3  
4585 9.3 171415.5 -0640.0  
4586 9.0 171445.0 -0648.2  
4587 7.8 171455.9 -0610.9  
4588 9.5 171510.4 -0614.2  
4589 7.0 171514.1 -0657.7  
4590 9.3 171645.5 -0650.0  
4591 9.9 171723.6 -0634.1  
4592 7.0 171811.8 -0626.6  
4593 9.4 171813.0 -0602.6

4594 9.6 171853.7 -0659.7  
4595 9.5 171942.6 -0657.9  
4596 9.1 171956.4 -0607.0  
4597 9.0 172006.5 -0603.6  
4598 9.8 172104.2 -0612.1  
4599 9.7 172105.4 -0607.6  
4600 9.1 172110.4 -0628.5  
4601 9.8 172128.9 -0627.2  
4602 8.7 172209.0 -0647.8  
4603 9.5 172215.6 -0653.6

4604 9.4 172234.2 -0608.1  
4605 9.5 172302.9 -0618.3  
4606 9.2 172329.5 -0654.3  
4607 9.5 172330.3 -0611.8  
4608 9.4 172402.8 -0621.9  
4609 8.8 172449.3 -0609.2  
4610 9.4 172536.2 -0613.1  
4611 8.8 172603.9 -0618.3  
4612 9.0 172630.5 -0652.7  
4613 9.5 172636.4 -0616.9

4614 9.1 172717.5 -0653.1  
4615 9.0 172720.3 -0620.4  
4616 10. 172752.9 -0636.0  
4617 9.5 172753.4 -0617.5  
4618 6.8 172755.3 -0601.5  
4619 8.5 172804.3 -0606.2  
4620 8.0 172808.4 -0601.7  
4621 9.5 172855.8 -0616.0  
4622 9.5 172934.6 -0626.2  
4623 9.2 172947.5 -0642.3

4624 8.5 173200.9 -0623.6  
4625 9.1 173214.5 -0651.8  
4626 9.3 173229.3 -0606.4  
4627 9.8 173242.8 -0628.0  
4628 9.8 173244.4 -0615.0  
4629 8.8 173320.4 -0622.2  
4630 9.2 173359.0 -0655.0  
4631 9.5 173410.0 -0657.7  
4632 9.3 173452.3 -0622.9  
4633 9.6 173513.9 -0639.4

4634 9.1 173520.4 -0616.5  
4635 9.4 173542.5 -0638.8  
4636 9.5 173543.8 -0604.4  
4637 9.5 173549.3 -0621.2  
4638 8.8 173609.9 -0611.6  
4639 9.5 173620.1 -0627.8  
4640 9.4 173625.3 -0626.3  
4641 9.1 173628.1 -0627.5  
4642 9.7 173638.3 -0620.4  
4643 9.0 173642.7 -0633.8

4644 9.5 173705.2 -0648.7  
4645 9.5 173830.6 -0634.3  
4646 9.3 173831.7 -0646.4  
4647 8.5 173901.8 -0648.4  
4648 8.0 173912.6 -0609.0  
4649 9.2 173923.4 -0613.5  
4650 9.1 173927.7 -0654.4  
4651 8.7 173949.7 -0630.7  
4652 9.8 174016.1 -0614.5  
4653 9.0 174046.5 -0640.2

4654 9.6 174052.7 -0626.4  
4655 9.6 174054.2 -0638.3  
4656 9.8 174108.4 -0606.8  
4657 9.7 174131.5 -0637.3  
4658 9.8 174136.6 -0634.2  
4659 9.7 174146.5 -0652.7  
4660 9.0 174224.6 -0644.6  
4661 9.5 174225.2 -0639.1  
4662 9.6 174246.5 -0617.5  
4663 9.3 174247.5 -0600.0

4664 8.8 174310.7 -0651.2  
4665 9.8 174318.9 -0622.0  
4666 9.1 174335.7 -0650.8  
4667 8.2 174347.8 -0648.9  
4668 9.7 174352.7 -0600.5  
4669 8.3 174355.4 -0613.1  
4670 9.7 174403.9 -0621.6  
4671 9.1 174419.1 -0621.9  
4672 6.0 174452.7 -0606.2  
4673 9.8 174556.4 -0610.3

4674 9.3 174628.3 -0647.9  
4675 9.5 174700.4 -0605.9  
4676 9.4 174737.8 -0640.2  
4677 9.3 174745.2 -0657.2  
4678 8.0 174820.2 -0638.9  
4679 8.7 174840.7 -0631.6  
4680 9.5 174856.9 -0624.9  
4681 8.8 174910.2 -0639.2  
4682 8.8 174918.0 -0639.8  
4683 10. 175043.9 -0619.9

4684 10. 175057.1 -0618.5  
4685 9.0 175057.1 -0613.4  
4686 9.7 175104.2 -0610.3  
4687 9.5 175109.6 -0644.6  
4688 8.0 175114.7 -0637.5  
4689 8.3 175129.2 -0650.2  
4690 8.2 175135.9 -0606.1  
4691 9.5 175201.3 -0645.2  
4692 8.8 175207.5 -0657.9  
4693 8.1 175235.4 -0636.0

4694 8.8 175315.8 -0605.5  
4695 9.0 175317.4 -0606.1  
4696 9.8 175327.8 -0610.8  
4697 9.1 175450.4 -0619.1  
4698 8.5 175510.1 -0654.2  
4699 9.5 175545.6 -0658.4  
4700 8.3 175614.4 -0623.6  
4701 9.2 175624.7 -0655.4  
4702 9.3 175637.9 -0603.1  
4703 9.8 175646.8 -0621.4

4704 9.8 175700.2 -0637.3  
4705 9.5 175711.2 -0654.5  
4706 8.3 175711.6 -0621.2  
4707 9.4 175720.4 -0602.0  
4708 8.9 175832.7 -0643.7  
4709 9.0 175847.1 -0643.1  
4710 9.5 175903.1 -0614.3  
4711 9.4 175911.0 -0629.0  
4712 9.3 175913.6 -0632.1  
4713 9.5 175932.1 -0639.0

4714 9.5 175939.3 -0606.5  
4715 9.4 175942.3 -0600.5  
4716 9.5 180020.4 -0648.2  
4717 8.4 180049.4 -0640.6  
4718 9.2 180116.5 -0628.4  
4719 9.5 180131.3 -0608.4  
4720 9.3 180257.6 -0651.4  
4721 9.7 180304.1 -0610.9  
4722 8.7 180350.4 -0603.5  
4723 9.2 180410.1 -0617.3

4724 9.5 180410.9 -0603.1  
4725 8.3 180443.8 -0605.2  
4726 9.1 180525.5 -0648.6  
4727 9.4 180615.8 -0612.5  
4728 9.5 180655.2 -0633.0  
4729 8.7 180716.1 -0649.4  
4730 9.3 180724.9 -0651.3  
4731 9.0 180743.8 -0600.5  
4732 9.1 180819.6 -0650.2  
4733 9.4 180843.9 -0608.3

-06 4823 18h30m

4734 10. 180935.7 -0612.8  
4735 9.1 180953.2 -0614.0  
4736 9.3 181022.1 -0616.0  
4737 8.5 181046.9 -0609.6  
4738 8.9 181053.5 -0645.2  
4739 9.1 181054.6 -0647.3  
4740 9.0 181146.7 -0624.4  
4741 9.1 181155.1 -0617.3  
4742 9.3 181231.7 -0632.2  
4743 9.3 181246.5 -0641.3

4744 9.1 181300.6 -0651.5  
4745 9.1 181421.8 -0605.5  
4746 9.1 181429.9 -0624.3  
4747 9.5 181505.5 -0646.6  
4748 9.5 181531.9 -0627.3  
4749 9.5 181533.2 -0628.7  
4750 9.8 181543.9 -0608.0  
4751 7.8 181547.8 -0619.1  
4752 9.0 181632.0 -0654.6  
4753 8.8 181635.9 -0611.3

4754 9.1 181642.9 -0602.0  
4755 7.0 181656.0 -0640.3  
4756 9.2 181701.9 -0625.8  
4757 9.7 181737.9 -0630.1  
4758 8.8 181742.9 -0633.1  
4759 9.6 181750.3 -0624.3  
4760 9.3 181824.0 -0652.0  
4761 8.9 181825.0 -0642.4  
4762 8.2 181903.0 -0630.2  
4763 8.2 181909.8 -0618.8

4764 8.7 181909.9 -0635.1  
4765 9.0 181936.4 -0621.5  
4766 9.5 181940.5 -0639.8  
4767 8.9 182011.4 -0610.7  
4768 9.2 182015.8 -0602.2  
4769 8.3 182019.9 -0614.3  
4770 9.5 182043.5 -0644.9  
4771 9.8 182055.4 -0604.3  
4772 9.5 182127.7 -0619.5  
4773 9.5 182158.3 -0617.3

4774 9.5 182203.4 -0628.5  
4775 9.7 182231.5 -0635.1  
4776 9.8 182249.9 -0611.6  
4777 9.5 182301.1 -0616.5  
4778 9.5 182315.3 -0648.9  
4779 8.3 182401.0 -0642.2  
4780 9.4 182401.3 -0647.8  
4781 9.8 182407.7 -0632.0  
4782 9.8 182412.1 -0630.2  
4783 8.0 182412.4 -0612.6

4784 9.2 182418.7 -0631.1  
4785 9.7 182429.4 -0634.1  
4786 9.4 182437.0 -0644.5  
4787 9.4 182448.2 -0620.0  
4788 9.5 182515.3 -0642.5  
4789 8.6 182533.7 -0608.8  
4790 9.5 182537.2 -0609.5  
4791 6.5 182537.5 -0600.2  
4792 9.9 182548.0 -0626.5  
4793 9.8 182557.7 -0602.6

4794 9.5 182609.6 -0644.6  
4795 9.3 182614.6 -0624.8  
4796 9.3 182624.7 -0642.2  
4797 9.6 182635.2 -0635.7  
4798 9.5 182711.3 -0637.5  
4799 9.5 182729.2 -0638.1  
4800 9.1 182733.8 -0652.6  
4801 9.2 182734.6 -0627.9  
4802 9.8 182750.7 -0627.7  
4803 9.8 182808.7 -0625.2

4804 10. 182819.3 -0643.5  
4805 7.0 182819.3 -0651.1  
4806 9.8 182820.5 -0619.9  
4807 9.8 182831.7 -0627.9  
4808 9.8 182847.7 -0601.6  
4809 8.3 182855.2 -0632.0  
4810 9.3 182923.8 -0640.5  
4811 9.0 182926.7 -0643.4  
4812 8.8 182936.0 -0612.8  
4813 9.8 182936.2 -0623.1

4814 9.5 182943.5 -0617.6  
4815 9.7 182958.7 -0629.6  
4816 8.2 183002.3 -0655.0  
4817 8.6 183011.2 -0654.2  
4818 8.8 183015.8 -0634.1  
4819 10. 183019.3 -0643.5  
4820 9.0 183026.2 -0619.8  
4821 9.4 183028.7 -0610.0  
4822 9.1 183049.7 -0604.4  
4823 8.5 183051.0 -0606.8



-06 4824 18h31m

4824 9.8 183102.4 -0623.6  
4825 9.3 183113.7 -0624.0  
4826 9.5 183139.3 -0639.6  
4827 9.8 183221.7 -0644.8  
4828 10. 183307.5 -0615.7  
4829 10. 183309.7 -0654.8  
4830 9.7 183313.6 -0614.5  
4831 10. 183317.6 -0653.4  
4832 9.5 183320.6 -0619.4  
4833 10. 183320.9 -0647.6  
  
4834 9.9 183322.0 -0654.2  
4835 9.3 183344.8 -0642.6  
4836 9.3 183347.0 -0611.1  
4837 9.4 183359.8 -0644.2  
4838 9.8 183403.3 -0600.7  
4839 9.7 183418.8 -0611.0  
4840 9.3 183425.2 -0603.6  
4841 9.6 183429.1 -0612.3  
4842 9.6 183432.7 -0645.0  
4843 9.0 183434.7 -0656.7  
  
4844 9.5 183441.3 -0608.5  
4845 10. 183445.8 -0644.4  
4846 9.5 183447.3 -0658.1  
4847 9.5 183447.3 -0637.5  
4848 9.5 183450.4 -0624.6  
4849 9.5 183504.3 -0637.1  
4850 9.5 183517.2 -0629.5  
4851 9.2 183518.8 -0659.0  
4852 8.7 183521.9 -0658.3  
4853 9.2 183530.1 -0609.6  
  
4854 9.5 183539.3 -0638.2  
4855 9.3 183548.8 -0626.2  
4856 9.5 183552.7 -0623.7  
4857 9.3 183602.1 -0644.3  
4858 9.2 183603.0 -0616.8  
4859 6.0 183603.1 -0657.1  
4860 9.2 183608.5 -0612.0  
4861 9.9 183622.3 -0644.9  
4862 9.8 183626.7 -0614.5  
4863 9.8 183630.7 -0603.1  
  
4864 9.7 183631.6 -0632.9  
4865 9.6 183637.9 -0621.6  
4866 9.6 183643.2 -0658.5  
4867 9.6 183644.1 -0649.4  
4868 9.5 183647.2 -0646.3  
4869 7.0 183652.9 -0640.2  
4870 9.4 183655.7 -0625.4  
4871 8.8 183656.6 -0646.9  
4872 9.0 183703.1 -0628.7  
4873 9.3 183711.7 -0619.8  
  
4874 10. 183725.2 -0632.5  
4875 9.6 183728.8 -0627.7  
4876 9.7 183737.6 -0639.9  
4877 9.5 183737.9 -0646.0  
4878 9.2 183745.4 -0604.3  
4879 8.8 183748.4 -0612.8  
4880 10. 183749.7 -0640.2  
4881 9.5 183754.1 -0625.2  
4882 8.9 183757.0 -0626.0  
4883 9.6 183808.6 -0659.0  
  
4884 9.8 183812.7 -0616.4  
4885 8.2 183816.0 -0623.9  
4886 8.7 183816.4 -0627.5  
4887 9.2 183820.2 -0607.1  
4888 9.0 183825.2 -0617.0  
4889 9.5 183828.2 -0610.2  
4890 9.8 183841.8 -0628.1  
4891 9.5 183847.2 -0612.9  
4892 9.7 183849.3 -0625.0  
4893 7.8 183857.8 -0650.4  
  
4894 9.3 183906.8 -0611.7  
4895 9.3 183913.9 -0630.3  
4896 9.4 183914.9 -0622.9  
4897 7.0 183923.9 -0602.8  
4898 9.8 183932.7 -0617.6  
4899 9.8 183933.7 -0613.8  
4900 10. 183939.8 -0645.0  
4901 10. 183940.6 -0649.6  
4902 9.9 183942.4 -0654.1  
4903 9.3 183947.6 -0627.6  
  
4904 9.7 183949.4 -0649.2  
4905 9.1 183954.1 -0647.3  
4906 9.3 183956.7 -0623.5  
4907 9.7 183957.1 -0643.7  
4908 9.8 184027.2 -0601.8  
4909 9.8 184033.9 -0613.3  
4910 8.8 184046.6 -0637.0  
4911 9.8 184050.2 -0621.6  
4912 9.2 184053.0 -0609.4  
4913 7.2 184054.2 -0609.6

4914 9.9 184100.2 -0643.6  
4915 9.4 184102.6 -0637.0  
4916 8.7 184105.4 -0630.4  
4917 9.1 184120.3 -0658.9  
4918 9.5 184133.8 -0648.0  
4919 9.2 184134.7 -0619.4  
4920 9.1 184145.8 -0648.4  
4921 9.2 184155.3 -0650.7  
4922 6.8 184155.3 -0604.1  
4923 8.5 184156.5 -0606.0  
  
4924 9.1 184216.3 -0639.5  
4925 9.0 184217.3 -0634.6  
4926 9.0 184220.2 -0608.2  
4927 9.6 184232.3 -0659.4  
4928 9.4 184254.4 -0657.1  
4929 8.8 184321.2 -0626.7  
4930 9.5 184322.6 -0642.9  
4931 9.3 184329.3 -0651.8  
4932 9.2 184329.6 -0631.4  
4933 9.2 184330.6 -0620.4  
  
4934 9.6 184340.6 -0611.9  
4935 9.6 184346.3 -0607.7  
4936 9.5 184351.8 -0627.6  
4937 9.5 184400.8 -0653.5  
4938 9.2 184412.9 -0604.8  
4939 9.2 184424.3 -0658.4  
4940 9.3 184438.3 -0633.7  
4941 7.5 184500.4 -0600.5  
4942 9.0 184511.1 -0626.8  
4943 8.8 184515.4 -0618.3  
  
4944 9.0 184529.5 -0626.4  
4945 9.1 184534.2 -0637.7  
4946 8.8 184535.3 -0644.0  
4947 9.8 184615.4 -0643.2  
4948 9.8 184617.1 -0615.0  
4949 8.9 184620.3 -0617.4  
4950 9.8 184631.5 -0630.0  
4951 10. 184635.8 -0611.1  
4952 8.9 184636.8 -0639.2  
4953 8.0 184641.5 -0608.2  
  
4954 9.5 184644.8 -0631.2  
4955 9.8 184651.9 -0650.9  
4956 9.3 184656.7 -0615.4  
4957 9.8 184657.8 -0643.7  
4958 10. 184720.6 -0659.8  
4959 9.2 184731.8 -0619.9  
4960 9.5 184739.3 -0632.9  
4961 9.5 184741.3 -0602.9  
4962 9.8 184749.3 -0629.9  
4963 9.8 184750.5 -0619.4  
  
4964 8.5 184755.6 -0649.5  
4965 9.4 184756.2 -0608.9  
4966 9.2 184810.8 -0631.7  
4967 9.4 184822.0 -0630.2  
4968 9.5 184835.4 -0643.9  
4969 9.1 184837.6 -0614.3  
4970 9.6 184843.3 -0602.5  
4971 9.0 184844.1 -0607.7  
4972 9.3 184846.2 -0602.5  
4973 9.4 184849.0 -0643.7  
  
4974 9.7 184905.8 -0644.8  
4975 10. 184907.0 -0646.1  
4976 5.0 184918.0 -0601.8  
4977 9.8 184924.0 -0607.5  
4978 9.8 184925.1 -0621.3  
4979 9.5 184926.4 -0629.4  
4980 9.5 184932.3 -0640.7  
4981 8.8 184945.5 -0629.0  
4982 10. 184950.4 -0639.2  
4983 9.3 184952.1 -0650.4  
  
4984 9.4 185011.8 -0626.2  
4985 9.0 185020.5 -0626.0  
4986 9.0 185022.8 -0611.4  
4987 9.5 185059.6 -0659.7  
4988 9.7 185107.0 -0650.6  
4989 9.0 185113.0 -0657.8  
4990 9.2 185129.2 -0651.5  
4991 9.8 185129.9 -0634.0  
4992 10. 185141.8 -0642.5  
4993 9.1 185151.6 -0616.2  
  
4994 9.8 185210.9 -0602.1  
4995 9.5 185216.0 -0647.8  
4996 9.8 185216.5 -0658.3  
4997 9.8 185217.4 -0615.0  
4998 9.4 185218.5 -0658.3  
4999 9.3 185245.1 -0634.4  
5000 10. 185252.7 -0634.5  
5001 9.6 185254.5 -0629.7  
5002 9.1 185301.1 -0614.7  
5003 9.4 185315.1 -0610.9

5004 8.5 185316.5 -0647.6  
5005 7.3 185340.9 -0623.4  
5006 9.1 185355.9 -0652.1  
5007 7.7 185402.2 -0635.0  
5008 9.4 185405.9 -0649.3  
5009 7.3 185408.4 -0623.7  
5010 9.6 185413.7 -0612.0  
5011 9.4 185419.5 -0600.7  
5012 9.0 185424.1 -0654.8  
5013 8.5 185429.4 -0637.6  
  
5014 9.6 185429.9 -0607.6  
5015 9.3 185441.8 -0634.1  
5016 8.9 185447.0 -0632.4  
5017 9.1 185454.4 -0640.3  
5018 9.4 185509.9 -0656.0  
5019 9.8 185524.9 -0622.2  
5020 8.2 185532.6 -0602.3  
5021 9.6 185534.0 -0659.3  
5022 9.5 185540.7 -0652.8  
5023 9.5 185541.9 -0627.4  
  
5024 9.8 185555.8 -0602.3  
5025 9.0 185615.5 -0616.4  
5026 9.8 185617.2 -0644.2  
5027 9.5 185618.0 -0607.4  
5028 9.6 185618.4 -0640.2  
5029 9.4 185655.5 -0659.5  
5030 9.2 185700.8 -0613.0  
5031 9.9 185705.8 -0641.5  
5032 9.3 185723.2 -0637.5  
5033 8.8 185733.0 -0623.0  
  
5034 9.0 185836.2 -0617.3  
5035 9.5 185838.5 -0635.5  
5036 10. 185908.3 -0659.8  
5037 9.7 185911.7 -0657.6  
5038 9.1 185921.1 -0600.8  
5039 9.3 185922.9 -0606.4  
5040 8.5 185948.2 -0656.0  
5041 9.8 190001.5 -0639.8  
5042 9.5 190019.0 -0609.6  
5043 9.8 190040.5 -0642.5  
  
5044 9.3 190111.9 -0616.0  
5045 9.1 190115.2 -0628.7  
5046 8.5 190129.2 -0617.0  
5047 9.5 190208.4 -0612.8  
5048 9.5 190209.8 -0611.5  
5049 8.8 190278.6 -0603.2  
5050 9.8 190234.0 -0632.5  
5051 9.3 190251.0 -0624.8  
5052 9.0 190258.2 -0626.1  
5053 9.6 190309.8 -0646.9  
  
5054 6.8 190310.0 -0650.7  
5055 8.8 190319.1 -0636.3  
5056 9.3 190319.4 -0639.9  
5057 9.5 190334.5 -0659.1  
5058 9.5 190337.0 -0646.2  
5059 9.0 190344.0 -0617.2  
5060 8.9 190404.1 -0639.4  
5061 9.5 190410.2 -0621.3  
5062 9.3 190425.0 -0626.0  
5063 8.4 190453.3 -0641.8  
  
5064 9.5 190453.5 -0614.8  
5065 9.1 190512.9 -0601.0  
5066 9.5 190521.1 -0632.7  
5067 9.1 190521.1 -0642.9  
5068 9.3 190545.5 -0619.5  
5069 9.8 190547.8 -0604.4  
5070 9.6 190559.0 -0659.4  
5071 9.3 190604.5 -0626.0  
5072 8.8 190608.1 -0608.3  
5073 9.6 190615.3 -0629.0  
  
5074 9.8 190633.0 -0624.9  
5075 9.4 190634.1 -0609.1  
5076 9.2 190643.6 -0656.2  
5077 6.5 190736.5 -0617.3  
5078 9.3 190750.0 -0632.7  
5079 9.4 190758.5 -0644.6  
5080 9.1 190801.3 -0632.5  
5081 9.8 190827.5 -0602.0  
5082 9.3 190844.5 -0633.5  
5083 9.8 190911.0 -0644.8  
  
5084 9.8 190917.0 -0647.1  
5085 9.5 190937.5 -0659.5  
5086 9.0 190957.0 -0613.6  
5087 9.5 191003.6 -0611.1  
5088 9.7 191014.0 -0633.5  
5089 9.7 191015.0 -0644.3  
5090 9.5 191041.5 -0624.2  
5091 9.0 191042.6 -0639.7  
5092 7.8 191046.2 -0657.0  
5093 9.4 191046.2 -0655.9

5094 9.9 191101.0 -0607.7  
5095 10. 191102.8 -0613.5  
5096 7.8 191103.1 -0601.6  
5097 9.1 191110.0 -0617.9  
5098 9.4 191111.3 -0629.0  
5099 9.2 191154.0 -0627.1  
5100 9.8 191201.1 -0657.7  
5101 9.6 191204.5 -0657.9  
5102 9.3 191215.0 -0650.7  
5103 7.0 191216.0 -0653.4  
  
5104 9.8 191220.5 -0655.4  
5105 9.5 191243.1 -0639.6  
5106 9.1 191246.6 -0649.2  
5107 8.6 191246.8 -0619.1  
5108 9.9 191247.0 -0618.5  
5109 9.0 191300.6 -0609.5  
5110 9.8 191308.0 -0635.3  
5111 9.5 191322.9 -0634.4  
5112 9.4 191330.8 -0640.8  
5113 9.9 191333.6 -0619.9  
  
5114 9.8 191409.3 -0617.6  
5115 9.6 191409.5 -0652.5  
5116 9.8 191424.6 -0657.2  
5117 8.0 191426.0 -0618.8  
5118 9.5 191433.3 -0621.2  
5119 9.5 191437.0 -0624.2  
5120 9.5 191437.5 -0634.7  
5121 9.8 191450.6 -0639.5  
5122 9.5 191511.7 -0606.5  
5123 9.1 191516.6 -0659.5  
  
5124 9.5 191518.5 -0621.0  
5125 9.3 191530.1 -0651.5  
5126 9.4 191339.6 -0650.6  
5127 9.5 191556.1 -0610.5  
5128 9.5 191557.1 -0638.5  
5129 9.4 191557.6 -0635.2  
5130 9.8 191558.0 -0623.2  
5131 9.4 191602.1 -0635.2  
5132 9.5 191636.1 -0643.6  
5133 9.5 191631.5 -0603.9  
  
5134 9.7 191644.5 -0608.2  
5135 9.6 191710.4 -0613.7  
5136 9.8 191712.9 -0654.5  
5137 10. 191710.6 -0628.0  
5138 9.5 191713.6 -0645.1  
5139 9.8 191727.4 -0659.8  
5140 9.1 19174.2 -0653.9  
5141 9.4 191751.6 -0630.0  
5142 9.0 191758.6 -0645.2  
5143 9.5 191758.6 -0654.8  
  
5144 10. 191810.1 -0631.4  
5145 9.7 191839.1 -0627.2  
5146 9.5 191846.8 -0630.7  
5147 8.7 191851.9 -0654.6  
5148 9.7 191903.4 -0659.9  
5149 9.3 191928.3 -0644.4  
5150 9.5 191932.4 -0601.5  
5151 7.7 191937.0 -0601.2  
5152 9.7 191959.1 -0634.5  
5153 9.8 192020.9 -0657.5  
  
5154 9.1 192037.0 -0626.2  
5155 9.5 192057.9 -0631.9  
5156 9.5 192101.3 -0613.1  
5157 9.5 192111.8 -0625.4  
5158 8.3 192112.9 -0627.8  
5159 9.2 192123.8 -0619.2  
5160 9.4 192129.5 -0635.7  
5161 9.5 192136.1 -0646.4  
5162 9.5 192136.9 -0620.3  
5163 9.5 192152.8 -0632.0  
  
5164 9.1 192207.9 -0619.2  
5165 9.0 192231.4 -0651.4  
5166 9.0 192232.8 -0649.6  
5167 9.8 192237.4 -0608.8  
5168 9.9 192257.1 -0623.4  
5169 9.5 192258.0 -0633.9  
5170 7.0 192307.4 -0627.1  
5171 9.4 192324.6 -0627.1  
5172 9.0 192359.3 -0642.3  
5173 9.5 192401.8 -0656.6  
  
5174 9.5 192406.9 -0640.1  
5175 9.5 192426.2 -0626.7  
5176 9.5 192442.7 -0636.4  
5177 9.0 192459.9 -0607.8  
5178 9.5 192522.4 -0626.8  
5179 9.0 192539.3 -0656.1  
5180 9.2 192543.7 -0620.2  
5181 9.7 192546.9 -0628.8  
5182 10. 192615.8 -0634.0  
5183 9.4 192632.0 -0612.3

-06 5183 19h26m



-06 5184 19h26m

5184 9.4 192635.9 -0648.5  
5185 9.9 192657.9 -0644.9  
5186 9.3 192702.9 -0652.0  
5187 9.3 192704.9 -0646.0  
5188 9.3 192707.0 -0632.6  
5189 9.4 192709.3 -0658.1  
5190 9.5 192723.0 -0605.2  
5191 10. 192728.3 -0659.8  
5192 9.1 192739.2 -0610.4  
5193 9.2 192748.1 -0600.5

5194 9.1 192754.5 -0603.6  
5195 9.0 192755.1 -0628.2  
5196 9.3 192808.2 -0615.3  
5197 9.8 192826.5 -0630.1  
5198 9.6 192827.7 -0626.6  
5199 9.5 192831.2 -0636.1  
5200 9.3 192833.5 -0620.4  
5201 8.0 192841.7 -0617.1  
5202 9.8 192849.2 -0639.8  
5203 9.5 192852.1 -0653.5

5204 9.5 192911.4 -0651.7  
5205 9.8 192921.0 -0639.9  
5206 9.3 192926.2 -0627.4  
5207 9.4 192929.3 -0645.1  
5208 9.5 192936.7 -0636.8  
5209 9.3 192945.5 -0604.5  
5210 9.0 192958.9 -0618.7  
5211 9.0 193000.0 -0606.0  
5212 9.4 193005.1 -0652.6  
5213 8.0 193005.4 -0627.9

5214 9.4 193032.3 -0650.6  
5215 9.6 193047.9 -0623.2  
5216 9.4 193057.0 -0615.8  
5217 9.0 193111.6 -0603.8  
5218 9.8 193137.9 -0644.8  
5219 9.7 193141.0 -0624.7  
5220 9.7 193148.2 -0622.1  
5221 8.0 193153.4 -0623.1  
5222 8.2 193209.6 -0628.8  
5223 8.7 193218.3 -0626.0

5224 9.3 193227.3 -0643.9  
5225 9.6 193228.2 -0638.1  
5226 9.7 193232.5 -0610.8  
5227 9.5 193251.3 -0658.5  
5228 9.5 193253.4 -0618.0  
5229 9.5 193326.5 -0631.3  
5230 9.1 193329.6 -0632.7  
5231 9.4 193333.0 -0616.2  
5232 9.8 193336.6 -0623.5  
5233 9.2 193336.8 -0604.1

5234 10. 193340.4 -0646.1  
5235 9.3 193357.6 -0630.3  
5236 9.7 193411.9 -0633.5  
5237 7.9 193433.5 -0624.8  
5238 9.5 193436.3 -0630.2  
5239 9.5 193446.0 -0630.0  
5240 9.8 193459.9 -0641.5  
5241 8.2 193500.9 -0648.8  
5242 8.8 193528.6 -0627.6  
5243 9.3 193546.1 -0604.6

5244 9.9 193608.4 -0655.9  
5245 9.9 193610.6 -0653.9  
5246 9.5 193615.3 -0657.2  
5247 10. 193643.5 -0631.2  
5248 9.1 193656.4 -0653.0  
5249 9.3 193703.0 -0611.7  
5250 9.2 193704.4 -0648.2  
5251 9.7 193712.6 -0647.1  
5252 10. 193733.5 -0659.8  
5253 9.3 193736.3 -0629.6

5254 9.1 193739.0 -0654.7  
5255 9.5 193814.4 -0653.8  
5256 10. 193827.7 -0646.7  
5257 9.8 193856.0 -0615.7  
5258 9.5 193904.5 -0645.4  
5259 9.4 193906.5 -0639.0  
5260 9.1 193916.2 -0604.0  
5261 9.4 193919.8 -0640.1  
5262 9.4 193929.7 -0610.8  
5263 7.8 193935.2 -0641.7

5264 9.5 193951.6 -0636.8  
5265 9.4 194007.0 -0632.5  
5266 9.3 194121.4 -0659.4  
5267 9.5 194124.5 -0639.9  
5268 9.5 194126.9 -0659.8  
5269 9.0 194130.0 -0623.5  
5270 9.5 194156.0 -0631.1  
5271 9.4 194212.7 -0628.8  
5272 9.3 194219.8 -0603.8  
5273 9.2 194249.9 -0651.9

5274 9.4 194254.2 -0601.8  
5275 9.0 194256.8 -0609.3  
5276 9.3 194259.7 -0630.9  
5277 9.6 194336.3 -0634.8  
5278 9.6 194337.2 -0656.6  
5279 9.8 194352.3 -0639.8  
5280 9.5 194353.4 -0626.0  
5281 9.9 194358.7 -0659.5  
5282 9.4 194407.6 -0628.0  
5283 9.5 194419.3 -0606.9

5284 8.8 194419.6 -0642.9  
5285 9.1 194444.2 -0651.8  
5286 8.8 194501.2 -0616.4  
5287 9.5 194503.5 -0650.5  
5288 9.5 194506.2 -0615.1  
5289 9.0 194508.0 -0658.7  
5290 8.8 194510.1 -0636.9  
5291 9.4 194513.4 -0655.8  
5292 9.8 194515.7 -0615.3  
5293 9.8 194517.7 -0604.2

5294 8.3 194537.6 -0622.4  
5295 9.0 194540.1 -0622.6  
5296 9.8 194556.0 -0645.7  
5297 9.1 194605.8 -0610.3  
5298 9.5 194611.4 -0606.8  
5299 9.5 194633.4 -0632.5  
5300 8.5 194646.5 -0645.3  
5301 9.4 194648.9 -0608.6  
5302 9.5 194701.0 -0658.4  
5303 9.6 194704.6 -0623.1

5304 9.5 194717.5 -0647.5  
5305 9.2 194725.8 -0628.2  
5306 9.4 194727.8 -0653.4  
5307 9.2 194739.6 -0636.6  
5308 9.8 194754.1 -0636.6  
5309 9.8 194837.6 -0624.8  
5310 9.2 194856.7 -0635.2  
5311 9.6 194900.9 -0608.2  
5312 9.1 194931.7 -0621.9  
5313 8.9 194948.0 -0653.2

5314 10. 194948.6 -0605.0  
5315 9.5 194949.6 -0623.2  
5316 9.7 194956.7 -0630.5  
5317 9.4 195005.8 -0612.9  
5318 9.6 195012.0 -0616.0  
5319 7.5 195012.3 -0649.9  
5320 8.2 195029.1 -0644.3  
5321 9.3 195038.2 -0632.8  
5322 9.3 195057.4 -0611.4  
5323 9.8 195124.3 -0602.5

5324 9.1 195136.5 -0635.6  
5325 9.5 195139.6 -0643.1  
5326 9.0 195150.0 -0648.4  
5327 9.0 195206.7 -0620.5  
5328 9.5 195213.8 -0629.6  
5329 9.5 195216.3 -0612.4  
5330 9.6 195217.5 -0653.1  
5331 8.9 195222.5 -0603.6  
5332 9.4 195242.9 -0605.1  
5333 9.6 195255.6 -0631.1

5334 9.5 195304.1 -0649.7  
5335 9.4 195321.6 -0656.1  
5336 9.5 195329.5 -0650.8  
5337 9.5 195340.3 -0611.4  
5338 9.7 195341.5 -0633.6  
5339 8.2 195351.1 -0646.4  
5340 9.4 195404.0 -0601.1  
5341 9.1 195405.5 -0651.3  
5342 8.7 195411.6 -0637.9  
5343 9.1 195416.6 -0643.0

5344 9.5 195441.1 -0655.0  
5345 9.3 195456.0 -0646.0  
5346 9.1 195514.5 -0650.5  
5347 9.0 195520.1 -0641.3  
5348 8.8 195531.9 -0611.3  
5349 9.3 195604.4 -0607.0  
5350 9.1 195624.8 -0618.1  
5351 9.0 195630.2 -0625.1  
5352 9.6 195640.1 -0647.3  
5353 9.5 195649.7 -0624.1

5354 9.5 195653.7 -0645.5  
5355 9.4 195707.5 -0630.3  
5356 9.5 195710.4 -0607.1  
5357 9.5 195711.2 -0623.0  
5358 9.4 195721.7 -0625.4  
5359 9.1 195728.3 -0603.8  
5360 8.5 195734.1 -0659.7  
5361 8.7 195736.6 -0612.5  
5362 9.2 195742.2 -0600.8  
5363 9.8 195752.6 -0643.7

5364 9.4 195755.4 -0618.4  
5365 9.5 195757.7 -0629.6  
5366 9.0 195758.0 -0619.0  
5367 9.3 195815.2 -0647.1  
5368 9.5 195823.4 -0631.5  
5369 9.5 195827.6 -0603.1  
5370 9.4 195851.7 -0637.1  
5371 9.5 195859.4 -0629.5  
5372 9.5 195914.6 -0655.3  
5373 9.5 195928.7 -0634.7

5374 9.0 195929.9 -0645.5  
5375 9.6 195935.3 -0620.1  
5376 9.0 195945.1 -0644.3  
5377 9.5 195945.2 -0610.6  
5378 9.5 195945.9 -0604.2  
5379 9.5 195957.7 -0634.9  
5380 9.3 200030.0 -0610.6  
5381 9.4 200054.1 -0656.9  
5382 9.8 200111.8 -0602.8  
5383 9.5 200114.5 -0628.4

5384 9.3 200131.6 -0658.9  
5385 9.5 200147.7 -0656.0  
5386 9.1 200149.4 -0621.4  
5387 9.8 200212.7 -0611.3  
5388 9.4 200215.6 -0647.5  
5389 9.5 200237.1 -0650.6  
5390 9.2 200236.8 -0603.9  
5391 8.0 200245.7 -0635.2  
5392 9.8 200302.9 -0609.9  
5393 9.7 200309.3 -0616.2

5394 6.8 200322.2 -0630.6  
5395 9.5 200339.3 -0622.0  
5396 9.5 200340.1 -0657.7  
5397 8.5 200351.3 -0634.3  
5398 9.5 200355.8 -0648.9  
5399 9.0 200358.8 -0633.7  
5400 9.5 200418.4 -0615.6  
5401 9.8 200433.5 -0635.0  
5402 9.5 200446.9 -0617.6  
5403 6.8 200453.7 -0647.6

5404 9.8 200458.3 -0618.4  
5405 9.5 200501.4 -0616.2  
5406 9.5 200503.2 -0608.2  
5407 9.0 200510.3 -0616.3  
5408 9.1 200531.0 -0612.2  
5409 9.5 200554.6 -0656.6  
5410 9.1 200631.6 -0604.9  
5411 7.5 200640.4 -0628.6  
5412 9.0 200641.5 -0628.3  
5413 9.5 200646.4 -0610.5

5414 9.5 200653.3 -0620.5  
5415 9.8 200656.8 -0616.5  
5416 9.5 200703.7 -0638.1  
5417 9.4 200716.3 -0624.0  
5418 9.8 200719.7 -0605.4  
5419 9.1 200727.3 -0635.5  
5420 9.2 200731.7 -0644.6  
5421 8.5 200732.2 -0642.6  
5422 9.7 200737.4 -0604.5  
5423 9.7 200748.3 -0600.2

5424 9.8 200756.2 -0657.2  
5425 10. 200847.4 -0629.5  
5426 9.8 200850.6 -0619.1  
5427 9.0 200911.2 -0657.4  
5428 9.5 200917.7 -0628.4  
5429 9.8 200918.8 -0616.1  
5430 9.8 200920.4 -0611.5  
5431 8.7 200932.5 -0600.1  
5432 9.7 200932.5 -0627.8  
5433 8.0 200952.2 -0651.2

5434 9.0 201001.6 -0648.0  
5435 9.8 201006.3 -0600.9  
5436 9.8 201012.6 -0643.5  
5437 9.6 201013.4 -0651.0  
5438 9.5 201013.7 -0635.5  
5439 9.7 201013.8 -0639.5  
5440 7.8 201029.6 -0645.8  
5441 9.7 201051.8 -0633.1  
5442 9.5 201107.3 -0629.0  
5443 9.6 201108.4 -0640.8

5444 9.5 201110.5 -0630.3  
5445 9.6 201112.9 -0624.8  
5446 9.5 201113.7 -0635.0  
5447 9.6 201124.6 -0621.2  
5448 8.8 201130.9 -0617.4  
5449 9.5 201206.8 -0601.0  
5450 8.7 201236.2 -0607.6  
5451 6.3 201242.1 -0648.7  
5452 9.5 201251.5 -0651.0  
5453 9.1 201256.5 -0603.1

-06 5543 20h31m

5454 9.3 201256.5 -0610.5  
5455 7.3 201324.7 -0648.4  
5456 9.5 201328.0 -0613.6  
5457 9.2 201344.8 -0602.5  
5458 8.7 201415.7 -0608.2  
5459 10. 201417.0 -0607.6  
5460 9.4 201430.6 -0623.1  
5461 9.8 201457.2 -0619.0  
5462 8.2 201518.5 -0608.1  
5463 9.1 201528.6 -0624.6

5464 9.4 201531.5 -0633.0  
5465 9.2 201612.8 -0634.3  
5466 9.5 201623.3 -0612.3  
5467 9.5 201657.9 -0611.5  
5468 9.8 201701.0 -0652.9  
5469 9.6 201706.3 -0657.5  
5470 9.1 201711.7 -0614.4  
5471 9.0 201723.6 -0656.8  
5472 9.6 201726.8 -0606.9  
5473 9.8 201747.7 -0650.9

5474 9.6 201752.9 -0630.4  
5475 9.3 201755.8 -0633.5  
5476 9.8 201808.3 -0656.1  
5477 9.1 201825.3 -0653.2  
5478 8.7 201828.1 -0620.9  
5479 8.0 201839.7 -0637.5  
5480 10. 201845.6 -0620.7  
5481 9.3 201846.5 -0610.0  
5482 9.5 201913.3 -0612.0  
5483 10. 201923.3 -0607.2

5484 9.8 201942.4 -0602.6  
5485 9.1 201946.0 -0610.0  
5486 9.6 201947.3 -0603.1  
5487 7.3 202004.8 -0607.5  
5488 8.6 202012.4 -0600.0  
5489 9.8 202018.0 -0618.8  
5490 9.5 202031.6 -0627.6  
5491 9.8 202038.0 -0631.4  
5492 9.0 202051.3 -0601.5  
5493 9.0 202052.3 -0606.7

5494 9.8 202101.1 -0611.3  
5495 9.4 202103.2 -0650.5  
5496 9.4 202131.7 -0647.7  
5497 9.5 202133.9 -0609.2  
5498 9.4 202223.9 -0600.7  
5499 9.9 202227.2 -0650.2  
5500 9.8 202228.8 -0601.7  
5501 9.6 202246.0 -0659.6  
5502 9.8 202246.2 -0635.0  
5503 9.0 202256.8 -0612.7

5504 8.4 202257.5 -0617.9  
5505 9.0 202259.7 -0621.7  
5506 9.8 202329.0 -0651.7  
5507 9.8 202334.9 -0625.7  
5508 9.9 202343.8 -0605.6  
5509 9.8 202402.3 -0659.1  
5510 9.5 202405.8 -0657.5  
5511 8.0 202415.9 -0605.4  
5512 9.0 202433.7 -0647.7  
5513 9.6 202444.1 -0627.7

5514 9.5 202444.6 -0624.2  
5515 9.6 202508.8 -0644.6  
5516 9.2 202512.5 -0625.7  
5517 9.0 202535.5 -0628.2  
5518 9.9 202535.8 -0602.7  
5519 9.6 202539.6 -0606.5  
5520 9.8 202539.6 -0639.0  
5521 7.3 202542.7 -0642.4  
5522 10. 202548.0 -0600.8  
5523 8.6 202651.2 -0620.4

5524 10. 202658.1 -0635.4  
5525 8.7 202658.3 -0646.3  
5526 9.8 202703.4 -0656.7  
5527 8.5 202741.6 -0647.0  
5528 8.0 202742.2 -0601.0  
5529 9.2 202801.4 -0608.8  
5530 9.4 202841.7 -0620.5  
5531 9.8 202904.3 -0613.9  
5532 9.8 202937.8 -0638.0  
5533 9.3 202951.9 -0655.5

5534 9.7 202957.7 -0627.1  
5535 9.4 203014.2 -0651.4  
5536 9.3 203018.9 -0635.6  
5537 9.8 203022.9 -0602.5  
5538 9.0 203034.0 -0625.3  
5539 9.8 203047.5 -0622.1  
5540 9.6 203053.4 -0657.1  
5541 9.7 203059.3 -0630.5  
5542 9.3 203120.3 -0635.1  
5543 10. 203124.9 -0604.5



-06 5544 20h31m

5544 9.8 203126.1 -0611.6  
5545 8.6 203128.1 -0639.6  
5546 8.2 203135.3 -0641.6  
5547 8.6 203155.9 -0659.5  
5548 9.6 203214.7 -0629.4  
5549 9.7 203218.3 -0629.0  
5550 8.8 203229.6 -0621.6  
5551 9.5 203231.8 -0648.7  
5552 9.0 203232.4 -0618.1  
5553 9.8 203237.8 -0627.8

5554 9.5 203239.3 -0648.7  
5555 9.5 203257.3 -0638.0  
5556 9.6 203312.8 -0622.1  
5557 9.5 203337.4 -0652.7  
5558 7.7 203342.7 -0630.9  
5559 9.8 203400.5 -0601.0  
5560 9.4 203416.1 -0623.4  
5561 9.5 203415.3 -0621.8  
5562 9.8 203501.4 -0655.0  
5563 9.5 203508.4 -0620.0

5564 8.8 203516.4 -0653.6  
5565 9.2 203533.5 -0601.3  
5566 8.6 203541.3 -0644.5  
5567 8.2 203611.4 -0628.4  
5568 7.5 203618.5 -0606.9  
5569 9.8 203636.2 -0616.3  
5570 9.1 203644.9 -0619.8  
5571 9.5 203715.9 -0653.0  
5572 9.8 203717.4 -0653.6  
5573 8.2 203733.9 -0604.7

5574 9.5 203745.5 -0612.7  
5575 9.3 203748.4 -0626.2  
5576 9.5 203750.9 -0624.8  
5577 9.8 203800.8 -0603.1  
5578 8.3 203818.3 -0649.3  
5579 8.8 203859.7 -0630.5  
5580 9.8 203919.7 -0630.1  
5581 9.8 203924.0 -0609.8  
5582 9.5 203927.1 -0654.6  
5583 9.5 203937.4 -0613.8

5584 9.4 203949.5 -0658.4  
5585 10. 203956.0 -0643.8  
5586 8.9 204002.7 -0634.1  
5587 8.7 204026.9 -0644.4  
5588 8.3 204028.4 -0633.0  
5589 9.1 204102.0 -0628.3  
5590 9.4 204117.9 -0617.3  
5591 9.5 204119.0 -0644.2  
5592 9.9 204121.8 -0655.9  
5593 10. 204126.0 -0609.8

5594 9.5 204139.5 -0609.2  
5595 10. 204153.4 -0613.8  
5596 9.5 204155.4 -0630.2  
5597 9.5 204212.4 -0657.1  
5598 9.3 204223.0 -0607.2  
5599 10. 204251.8 -0608.6  
5600 8.5 204255.4 -0625.0  
5601 9.8 204255.6 -0601.0  
5602 9.8 204336.7 -0658.6  
5603 9.1 204339.5 -0608.2

5604 6.5 204344.8 -0609.7  
5605 8.2 204420.2 -0628.8  
5606 6.0 204429.3 -0602.8  
5607 9.4 204452.5 -0622.5  
5608 9.5 204456.1 -0627.9  
5609 9.8 204456.7 -0600.2  
5610 9.5 204457.8 -0602.9  
5611 9.5 204502.6 -0624.7  
5612 9.6 204519.3 -0608.4  
5613 9.2 204531.0 -0617.2

5614 9.3 204536.0 -0615.2  
5615 8.9 204551.6 -0647.2  
5616 9.5 204614.7 -0657.0  
5617 9.5 204622.8 -0656.5  
5618 9.8 204623.1 -0633.7  
5619 8.2 204655.6 -0600.8  
5620 9.3 204657.0 -0618.5  
5621 9.5 204657.7 -0650.1  
5622 9.5 204657.7 -0620.0  
5623 9.7 204709.3 -0647.2

5624 9.2 204722.4 -0601.5  
5625 9.5 204732.7 -0657.0  
5626 9.2 204738.5 -0618.3  
5627 9.1 204745.5 -0635.0  
5628 10. 204801.9 -0607.2  
5629 9.6 204815.1 -0650.5  
5630 9.2 204852.7 -0600.9  
5631 9.8 204854.8 -0633.3  
5632 9.6 204913.0 -0620.8  
5633 9.5 204913.1 -0632.5

5634 9.1 204923.2 -0645.0  
5635 9.8 204950.1 -0612.1  
5636 9.7 205014.7 -0600.3  
5637 8.6 205024.2 -0644.1  
5638 9.1 205050.1 -0607.4  
5639 9.6 205110.9 -0635.4  
5640 9.2 205117.5 -0623.5  
5641 8.8 205133.2 -0648.6  
5642 9.1 205152.3 -0630.4  
5643 9.1 205200.7 -0647.9

5644 9.0 205223.7 -0647.3  
5645 9.1 205226.6 -0614.6  
5646 8.8 205227.9 -0606.2  
5647 9.5 205241.9 -0611.5  
5648 9.1 205244.6 -0622.0  
5649 9.2 205250.2 -0620.5  
5650 6.5 205253.1 -0602.4  
5651 9.4 205207.4 -0605.3  
5652 9.3 205309.2 -0601.3  
5653 9.8 205358.9 -0633.4

5654 9.5 205359.0 -0626.1  
5655 9.8 205438.2 -0648.5  
5656 9.8 205456.3 -0629.3  
5657 9.0 205502.1 -0603.7  
5658 9.4 205529.7 -0647.6  
5659 8.7 205532.7 -0644.0  
5660 9.5 205555.7 -0600.9  
5661 8.5 205559.2 -0648.7  
5662 9.5 205619.6 -0611.7  
5663 9.5 205620.7 -0642.5

5664 6.0 205624.0 -0623.4  
5665 9.6 205701.9 -0620.4  
5666 9.4 205735.3 -0632.2  
5667 9.1 205742.0 -0643.2  
5668 9.5 205750.2 -0651.2  
5669 9.5 205757.7 -0605.7  
5670 8.5 205758.1 -0615.7  
5671 9.3 205810.2 -0643.6  
5672 9.0 205827.8 -0643.5  
5673 9.0 205836.3 -0650.7

5674 8.3 205838.2 -0607.6  
5675 9.8 205842.7 -0645.6  
5676 8.9 205847.8 -0620.4  
5677 9.8 205848.0 -0636.4  
5678 9.3 205900.0 -0608.3  
5679 9.3 205900.2 -0617.6  
5680 9.6 205925.7 -0606.5  
5681 9.5 205928.1 -0613.0  
5682 10. 205942.1 -0613.0  
5683 7.8 210002.7 -0609.0

5684 9.3 210012.6 -0627.9  
5685 9.4 210043.7 -0619.6  
5686 9.5 210103.6 -0618.5  
5687 9.4 210106.3 -0645.3  
5688 9.3 210112.7 -0617.8  
5689 7.8 210114.9 -0654.8  
5690 7.0 210118.6 -0609.9  
5691 9.4 210154.4 -0657.6  
5692 9.8 210157.4 -0658.0  
5693 9.4 210219.3 -0605.0

5694 9.0 210221.8 -0640.5  
5695 9.5 210234.8 -0649.7  
5696 9.6 210235.3 -0616.5  
5697 9.4 210256.2 -0611.1  
5698 9.1 210257.9 -0619.3  
5699 8.7 210300.8 -0621.3  
5700 9.7 210309.3 -0649.8  
5701 9.6 210309.4 -0606.6  
5702 9.9 210325.5 -0606.9  
5703 9.9 210334.8 -0627.9

5704 9.6 210405.9 -0605.4  
5705 8.3 210418.6 -0633.4  
5706 7.8 210418.8 -0624.1  
5707 9.1 210501.9 -0649.8  
5708 9.5 210503.6 -0607.8  
5709 9.4 210537.8 -0640.5  
5710 9.8 210543.9 -0650.3  
5711 9.4 210547.9 -0601.9  
5712 7.5 210550.2 -0620.6  
5713 9.6 210602.7 -0645.7

5714 9.4 210609.1 -0604.0  
5715 9.2 210627.8 -0624.0  
5716 9.8 210629.4 -0655.3  
5717 9.5 210640.8 -0637.9  
5718 9.7 210645.9 -0608.8  
5719 9.2 210655.4 -0633.6  
5720 7.0 210724.9 -0609.7  
5721 9.4 210734.5 -0603.5  
5722 8.2 210744.3 -0636.2  
5723 9.8 210747.2 -0623.4

5724 9.4 210747.9 -0646.7  
5725 8.6 210751.4 -0603.9  
5726 10. 210933.0 -0600.5  
5727 9.9 210943.4 -0613.6  
5728 10. 210950.4 -0608.3  
5729 9.5 210956.5 -0606.2  
5730 7.5 210958.9 -0623.3  
5731 8.9 211029.4 -0644.9  
5732 9.7 211138.0 -0604.8  
5733 8.0 211202.5 -0605.9

5734 9.5 211203.0 -0640.7  
5735 9.0 211209.3 -0637.9  
5736 9.9 211219.7 -0600.5  
5737 9.9 211224.0 -0612.3  
5738 10. 211238.0 -0631.1  
5739 10. 211243.0 -0603.7  
5740 9.2 211246.4 -0656.7  
5741 9.5 211251.9 -0624.6  
5742 9.5 211355.2 -0609.6  
5743 7.0 211458.5 -0615.0

5744 9.8 211518.0 -0639.2  
5745 8.3 211519.3 -0651.2  
5746 9.7 211525.9 -0620.2  
5747 9.9 211600.6 -0602.7  
5748 9.9 211618.9 -0623.0  
5749 9.4 211636.5 -0609.8  
5750 7.3 211704.0 -0612.0  
5751 9.7 211707.5 -0643.5  
5752 9.5 211721.0 -0606.9  
5753 9.7 211727.8 -0632.7

5754 9.0 211728.7 -0619.4  
5755 9.9 211827.5 -0613.3  
5756 9.8 211836.2 -0652.3  
5757 8.0 211856.6 -0627.8  
5758 10. 211901.1 -0615.8  
5759 9.0 211913.2 -0646.5  
5760 8.5 212015.6 -0601.4  
5761 8.8 212023.5 -0615.4  
5762 9.5 212048.1 -0615.9  
5763 9.8 212052.0 -0639.4

5764 9.3 212102.5 -0639.4  
5765 9.6 212204.4 -0630.2  
5766 8.5 212223.9 -0602.0  
5767 9.1 212234.1 -0607.1  
5768 9.5 212248.0 -0629.8  
5769 9.7 212315.4 -0621.8  
5770 3.5 212356.1 -0612.6  
5771 9.7 212409.1 -0620.6  
5772 9.2 212421.5 -0649.7  
5773 9.8 212436.6 -0647.0

5774 9.5 212448.5 -0623.8  
5775 8.5 212450.9 -0656.4  
5776 9.5 212512.1 -0652.5  
5777 9.5 212515.0 -0626.3  
5778 10. 212526.2 -0602.1  
5779 9.1 212530.5 -0637.3  
5780 9.3 212551.7 -0603.8  
5781 8.2 212607.9 -0603.6  
5782 9.0 212616.6 -0607.5  
5783 9.9 212632.6 -0644.8

5784 9.9 212638.0 -0639.8  
5785 9.4 212750.5 -0622.3  
5786 9.8 212755.6 -0615.5  
5787 9.6 212755.8 -0621.6  
5788 9.4 212848.2 -0624.4  
5789 9.3 212849.1 -0628.9  
5790 8.2 212908.6 -0639.1  
5791 10. 212919.6 -0632.3  
5792 9.4 212920.4 -0655.8  
5793 9.8 213002.7 -0606.9

5794 9.8 213022.1 -0648.0  
5795 9.6 213047.2 -0618.7  
5796 9.6 213053.2 -0610.7  
5797 9.7 213124.2 -0626.8  
5798 9.5 213203.4 -0632.0  
5799 9.1 213220.0 -0602.8  
5800 9.9 213423.0 -0629.6  
5801 8.9 213426.2 -0624.0  
5802 9.4 213427.2 -0640.2  
5803 9.5 213428.4 -0626.9

5804 8.5 213443.9 -0617.9  
5805 9.7 213514.7 -0605.0  
5806 9.4 213531.9 -0607.8  
5807 9.5 213547.3 -0659.6  
5808 9.4 213547.6 -0644.4  
5809 9.8 213552.7 -0611.4  
5810 9.5 213618.7 -0647.4  
5811 10. 213648.7 -0652.0  
5812 8.7 213656.2 -0609.8  
5813 9.2 213712.6 -0631.7

-06 5903 21h56m

5814 9.5 213731.5 -0656.0  
5815 9.5 213734.2 -0607.5  
5816 9.1 213744.2 -0609.6  
5817 9.5 213812.2 -0624.4  
5818 9.3 213817.1 -0638.6  
5819 8.8 213829.3 -0657.7  
5820 10. 213831.6 -0633.0  
5821 9.6 213836.7 -0610.2  
5822 8.5 213904.0 -0646.6  
5823 9.0 213904.0 -0645.0

5824 9.4 213906.5 -0600.3  
5825 9.4 213917.5 -0636.8  
5826 9.8 213948.7 -0615.3  
5827 6.2 213959.6 -0635.0  
5828 9.5 214009.6 -0628.9  
5829 9.5 214018.6 -0628.6  
5830 9.1 214022.2 -0647.8  
5831 10. 214031.8 -0642.6  
5832 10. 214038.3 -0629.1  
5833 9.5 214056.0 -0647.3

5834 7.8 214056.4 -0655.3  
5835 9.6 214059.5 -0601.4  
5836 9.6 214104.7 -0632.8  
5837 6.8 214126.4 -0604.4  
5838 9.4 214134.3 -0652.2  
5839 9.6 214139.7 -0627.7  
5840 9.1 214143.5 -0654.2  
5841 9.5 214156.0 -0642.0  
5842 9.2 214223.4 -0658.6  
5843 9.5 214225.3 -0616.9

5844 9.4 214226.7 -0635.6  
5845 9.5 214304.2 -0622.3  
5846 9.8 214308.6 -0658.3  
5847 9.6 214311.7 -0618.0  
5848 9.5 214349.5 -0601.5  
5849 9.4 214359.2 -0624.5  
5850 8.5 214501.3 -0602.8  
5851 9.4 214510.2 -0623.6  
5852 9.8 214512.5 -0627.1  
5853 9.5 214530.3 -0613.6

5854 9.6 214534.7 -0614.8  
5855 9.5 214538.2 -0629.8  
5856 9.6 214601.4 -0634.5  
5857 10. 214620.3 -0651.6  
5858 9.8 214622.4 -0657.9  
5859 7.2 214635.1 -0602.3  
5860 9.6 214649.7 -0654.1  
5861 9.5 214656.9 -0620.0  
5862 9.5 214707.3 -0608.2  
5863 9.5 214725.9 -0642.9

5864 9.8 214758.9 -0650.1  
5865 9.3 214816.8 -0636.0  
5866 9.7 214824.1 -0649.0  
5867 7.3 214828.3 -0630.5  
5868 9.5 214829.9 -0649.5  
5869 9.0 214834.8 -0622.7  
5870 8.8 214848.9 -0608.6  
5871 9.4 214851.8 -0627.9  
5872 9.5 214907.1 -0625.9  
5873 9.4 214910.8 -0628.7

5874 9.4 214918.6 -0644.3  
5875 9.6 214918.9 -0645.9  
5876 9.5 214942.9 -0649.0  
5877 9.2 214953.8 -0637.7  
5878 6.5 215036.9 -0606.5  
5879 8.7 215047.4 -0650.6  
5880 9.5 215057.4 -0618.9  
5881 8.6 215142.1 -0610.4  
5882 9.6 215145.2 -0627.9  
5883 9.7 215153.4 -0628.3

5884 8.0 215202.0 -0658.0  
5885 9.5 215205.2 -0656.0  
5886 9.5 215225.9 -0616.4  
5887 9.3 215226.7 -0616.6  
5888 8.9 215227.9 -0652.7  
5889 9.5 215239.6 -0633.8  
5890 9.2 215262.9 -0621.6  
5891 9.5 215264.4 -0614.0  
5892 9.5 215351.9 -0612.9  
5893 8.0 215359.0 -0654.6

5894 9.7 215419.2 -0621.1  
5895 4.6 215419.4 -0616.0  
5896 9.3 215425.2 -0627.5  
5897 9.3 215429.2 -0626.2  
5898 9.4 215436.1 -0659.1  
5899 10. 215507.9 -0659.9  
5900 9.8 215553.5 -0646.7  
5901 7.5 215553.9 -0623.6  
5902 8.0 215554.9 -0635.2  
5903 9.3 215649.5 -0646.0



-06 5904 21h57m

5904 8.8 215704.5 -0645.8  
5905 9.3 215724.2 -0632.8  
5906 9.9 215750.9 -0608.6  
5907 9.9 215816.6 -0616.7  
5908 7.5 215839.0 -0603.5  
5909 9.9 215858.0 -0610.1  
5910 9.0 215909.48 -0610.1  
5911 9.4 215930.0 -0610.1  
5912 7.8 220005.8 -0610.1  
5913 9.5 220011.8 -0609.1

5914 8.2 220018.3 -0610.5  
5915 9.6 220059.8 -0625.7  
5916 9.8 220123.5 -0650.8  
5917 9.5 220136.4 -0631.9  
5918 8.7 220136.7 -0618.7  
5919 9.2 220149.1 -0652.8  
5920 9.5 220156.0 -0633.5  
5921 9.2 220210.6 -0600.2  
5922 10.2 220222.2 -0603.2  
5923 10.1 220249.0 -0602.9

5924 9.6 220301.8 -0631.7  
5925 9.0 220337.1 -0635.8  
5926 10.1 220351.3 -0659.2  
5927 10.1 220400.0 -0656.2  
5928 8.5 220420.4 -0615.0  
5929 9.5 220437.3 -0616.1  
5930 9.7 220440.2 -0629.6  
5931 9.5 220456.3 -0646.6  
5932 9.6 220501.7 -0630.7  
5933 9.6 220510.6 -0647.9

5934 9.5 220515.1 -0652.6  
5935 9.9 220538.2 -0626.1  
5936 9.3 220609.6 -0622.9  
5937 9.4 220624.3 -0610.7  
5938 7.7 220638.9 -0628.1  
5939 9.5 220642.5 -0646.2  
5940 8.5 220645.3 -0616.9  
5941 10.1 220647.8 -0602.5  
5942 9.1 220654.7 -0609.6  
5943 9.4 220659.1 -0610.1

5944 8.2 220711.5 -0626.9  
5945 9.4 220712.4 -0622.3  
5946 9.5 220733.8 -0602.6  
5947 8.1 220737.9 -0628.9  
5948 9.6 220742.2 -0602.7  
5949 10.1 220749.8 -0611.1  
5950 9.1 220805.4 -0625.1  
5951 9.4 220812.9 -0624.1  
5952 9.8 220824.7 -0606.6  
5953 9.8 220840.2 -0626.7

5954 9.1 220902.2 -0652.0  
5955 9.5 220905.8 -0609.1  
5956 9.5 220912.6 -0651.1  
5957 9.5 220915.1 -0610.9  
5958 9.7 220921.4 -0609.3  
5959 9.5 220921.5 -0606.8  
5960 5.5 220923.3 -0606.6  
5961 9.8 220944.8 -0613.9  
5962 9.9 220950.9 -0612.7  
5963 9.5 221035.8 -0604.5

5964 8.2 221040.4 -0633.9  
5965 9.3 221040.7 -0606.9  
5966 9.5 221045.0 -0617.9  
5967 9.5 221045.6 -0629.6  
5968 9.5 221124.3 -0615.2  
5969 9.1 221139.1 -0656.7  
5970 9.5 221209.6 -0618.9  
5971 9.2 221344.0 -0612.1  
5972 7.5 221348.8 -0657.9  
5973 9.3 221411.9 -0633.5

5974 8.0 221411.6 -0654.5  
5975 9.5 221412.9 -0612.1  
5976 9.5 221445.5 -0619.7  
5977 9.4 221514.6 -0659.1  
5978 9.8 221518.9 -0621.7  
5979 9.3 221525.6 -0635.6  
5980 9.4 221526.3 -0619.9  
5981 10.1 221559.9 -0609.8  
5982 9.8 221629.4 -0609.5  
5983 9.1 221632.2 -0601.7

5984 8.9 221644.3 -0656.9  
5985 8.5 221651.7 -0645.9  
5986 9.7 221659.0 -0625.7  
5987 9.7 221712.3 -0648.4  
5988 9.1 221724.4 -0620.1  
5989 9.1 221809.0 -0628.7  
5990 9.7 221811.8 -0605.8  
5991 9.5 221817.8 -0619.9  
5992 9.7 221900.8 -0611.3  
5993 9.2 221908.3 -0602.1

5994 9.0 221932.8 -0614.1  
5995 9.0 221947.4 -0646.2  
5996 8.0 222017.4 -0638.6  
5997 8.6 222025.4 -0640.5  
5998 9.8 222036.1 -0650.4  
5999 10.1 222046.0 -0642.0  
6000 9.5 222115.5 -0629.9  
6001 9.5 222134.9 -0652.5  
6002 9.1 222151.9 -0642.2  
6003 9.6 222209.3 -0628.6

6004 9.5 222215.7 -0634.4  
6005 9.6 222217.3 -0604.2  
6006 9.4 222223.8 -0648.4  
6007 9.5 222234.3 -0602.8  
6008 9.7 222253.7 -0619.9  
6009 9.9 222305.2 -0634.2  
6010 9.6 222326.6 -0625.2  
6011 9.5 222350.3 -0613.7  
6012 9.5 222357.9 -0657.8  
6013 9.5 222452.4 -0635.5

6014 9.8 222456.5 -0657.8  
6015 9.5 222501.6 -0609.1  
6016 9.5 222501.9 -0642.6  
6017 10.1 222540.8 -0627.4  
6018 9.7 222611.9 -0628.1  
6019 9.7 222654.1 -0602.4  
6020 9.6 222655.2 -0607.6  
6021 9.0 222706.7 -0627.5  
6022 9.4 222716.6 -0653.5  
6023 9.8 222725.0 -0625.0

6024 9.5 222808.5 -0631.3  
6025 10.1 222809.4 -0628.7  
6026 9.1 222839.0 -0626.1  
6027 9.3 222844.6 -0622.4  
6028 8.8 222846.1 -0621.0  
6029 10.1 222852.6 -0656.2  
6030 7.5 222916.5 -0628.3  
6031 9.6 222921.3 -0616.3  
6032 9.5 222931.8 -0622.7  
6033 9.2 222939.2 -0607.6

6034 7.8 222944.1 -0649.1  
6035 9.4 222958.9 -0655.7  
6036 9.1 223020.6 -0649.5  
6037 9.7 223059.5 -0619.3  
6038 9.1 223102.5 -0638.2  
6039 9.5 223102.7 -0648.0  
6040 9.5 223120.9 -0626.2  
6041 9.5 223122.1 -0626.5  
6042 9.8 223129.2 -0601.2  
6043 9.6 223142.7 -0606.4

6044 9.5 223200.2 -0642.7  
6045 10.1 223227.5 -0624.0  
6046 9.3 223258.6 -0625.1  
6047 9.5 223324.3 -0627.4  
6048 9.5 223327.0 -0619.1  
6049 9.3 223335.0 -0624.1  
6050 10.3 223334.0 -0646.0  
6051 8.9 223351.9 -0624.9  
6052 8.7 223354.3 -0655.4  
6053 10.1 223418.1 -0626.0

6054 9.7 223424.7 -0613.3  
6055 9.4 223437.8 -0608.5  
6056 9.3 223443.3 -0609.6  
6057 9.8 223457.7 -0655.5  
6058 9.4 223509.2 -0616.1  
6059 9.7 223515.3 -0659.9  
6060 9.1 223521.5 -0658.1  
6061 9.5 223522.6 -0637.6  
6062 10.1 223546.5 -0634.2  
6063 9.1 223607.2 -0602.0

6064 9.1 223619.3 -0612.3  
6065 10.1 223647.9 -0648.2  
6066 10.1 223629.9 -0613.9  
6067 9.1 223634.8 -0611.4  
6068 8.8 223646.7 -0642.0  
6069 9.5 223649.8 -0653.4  
6070 9.5 223650.8 -0608.5  
6071 9.1 223652.8 -0610.2  
6072 9.5 223653.3 -0650.5  
6073 9.5 223650.8 -0617.7

6074 8.5 223655.4 -0627.9  
6075 8.7 223656.2 -0603.6  
6076 9.0 223710.5 -0621.5  
6077 9.5 223718.3 -0604.3  
6078 9.2 223731.9 -0620.4  
6079 8.6 223742.9 -0621.8  
6080 9.5 223746.8 -0602.3  
6081 9.5 223745.1 -0625.6  
6082 10.1 223749.9 -0627.6  
6083 9.6 223759.1 -0628.5

6084 9.5 224527.5 -0659.8  
6085 9.0 224540.4 -0606.6  
6086 9.0 224553.9 -0606.9  
6087 7.0 224555.8 -0645.3  
6088 8.7 224605.4 -0652.7  
6089 9.7 224631.1 -0632.9  
6090 9.0 224637.2 -0616.2  
6091 9.5 224637.3 -0639.0  
6092 10.1 224656.9 -0600.6  
6093 9.8 224657.8 -0607.7

6094 9.5 224726.7 -0637.3  
6095 10.1 224745.4 -0622.2  
6096 7.7 224749.5 -0627.7  
6097 9.4 224754.9 -0620.5  
6098 9.0 224759.4 -0621.1  
6099 10.1 224825.2 -0606.9  
6100 3.8 224849.0 -0600.9  
6101 9.7 224907.3 -0658.9  
6102 10.1 224924.3 -0610.9  
6103 9.6 224942.6 -0606.2

6104 10.1 224958.5 -0646.4  
6105 10.1 224959.0 -0633.8  
6106 10.1 225004.6 -0646.7  
6107 9.4 225018.7 -0638.9  
6108 9.0 225021.4 -0618.8  
6109 10.1 225022.3 -0603.0  
6110 8.5 225038.2 -0627.7  
6111 10.1 225101.7 -0658.0  
6112 8.8 225104.7 -0626.8  
6113 9.3 225106.7 -0640.0

6114 9.5 225107.5 -0641.3  
6115 9.5 225211.8 -0615.2  
6116 8.9 225215.1 -0634.6  
6117 9.6 225234.3 -0653.0  
6118 9.4 225238.2 -0651.4  
6119 9.5 225244.3 -0610.2  
6120 9.0 225315.2 -0620.3  
6121 8.8 225331.1 -0628.2  
6122 10.1 225342.6 -0652.1  
6123 9.5 225345.3 -0651.8

6124 10.1 225348.8 -0623.8  
6125 8.5 225359.8 -0618.5  
6126 9.1 225414.2 -0606.3  
6127 8.6 225422.7 -0644.5  
6128 10.1 225453.5 -0636.0  
6129 9.0 225507.1 -0630.5  
6130 9.7 225508.9 -0652.9  
6131 9.5 225518.7 -0652.4  
6132 9.5 225529.4 -0649.8  
6133 9.2 225531.6 -0637.2

6134 9.4 225538.8 -0631.2  
6135 10.1 225544.6 -0628.4  
6136 10.1 225553.6 -0609.2  
6137 9.8 225613.8 -0625.4  
6138 9.1 225621.8 -0613.4  
6139 8.7 225641.8 -0633.3  
6140 8.8 225657.0 -0657.7  
6141 9.2 225707.8 -0616.9  
6142 9.0 225741.3 -0601.9  
6143 10.1 225802.7 -0643.6

6144 10.1 225828.8 -0659.3  
6145 9.8 225933.4 -0631.2  
6146 9.5 230009.4 -0628.4  
6147 8.7 230020.5 -0629.0  
6148 9.1 230030.0 -0600.2  
6149 10.1 230037.6 -0647.7  
6150 10.1 230056.7 -0649.0  
6151 9.9 230109.3 -0615.0  
6152 8.5 230131.4 -0607.7  
6153 9.2 230142.9 -0640.0

6154 9.7 230216.6 -0607.8  
6155 9.6 230217.4 -0622.0  
6156 10.1 230301.4 -0618.3  
6157 7.0 230308.7 -0644.7  
6158 10.1 230332.7 -0635.3  
6159 10.1 230333.2 -0617.5  
6160 10.1 230340.6 -0617.8  
6161 10.1 230406.9 -0615.8  
6162 10.1 230428.7 -0636.2  
6163 9.5 230429.1 -0613.3

6164 9.5 230433.5 -0651.6  
6165 9.5 230527.0 -0615.8  
6166 10.1 230551.9 -0659.8  
6167 9.1 230553.8 -0638.8  
6168 9.7 230601.3 -0647.3  
6169 9.7 230642.9 -0645.8  
6170 5.0 230648.5 -0649.8  
6171 9.0 230705.1 -0654.4  
6172 10.1 230712.6 -0605.7  
6173 9.1 230724.5 -0610.0

-06 6263 23h34m

6174 8.2 230742.1 -0654.7  
6175 9.7 230753.5 -0619.8  
6176 10.1 230759.9 -0645.1  
6177 9.0 230811.3 -0629.2  
6178 9.0 230909.0 -0645.9  
6179 9.4 230910.0 -0630.1  
6180 10.1 230921.8 -0623.6  
6181 9.4 230936.5 -0620.5  
6182 9.3 230942.7 -0655.3  
6183 9.2 230952.7 -0654.2

6184 8.8 231016.5 -0621.3  
6185 8.9 231026.5 -0618.2  
6186 9.1 231053.5 -0611.2  
6187 8.9 231114.6 -0625.4  
6188 9.4 231156.4 -0637.8  
6189 10.1 231209.9 -0648.7  
6190 10.1 231221.8 -0610.3  
6191 6.5 231312.0 -0641.7  
6192 10.1 231344.0 -0641.1  
6193 8.1 231345.2 -0659.0

6194 9.1 231353.1 -0644.9  
6195 10.1 231412.1 -0628.4  
6196 10.1 231417.0 -0637.5  
6197 9.3 231442.1 -0629.7  
6198 9.6 231527.0 -0639.7  
6199 10.1 231559.7 -0606.4  
6200 9.5 231610.6 -0625.7  
6201 9.1 231642.1 -0632.5  
6202 9.3 231711.1 -0612.3  
6203 9.3 231714.4 -0648.2

6204 8.9 231731.5 -0600.4  
6205 9.9 231749.3 -0620.5  
6206 9.1 231805.2 -0648.5  
6207 9.4 231808.1 -0629.8  
6208 9.5 231815.6 -0600.9  
6209 9.8 231823.6 -0659.8  
6210 10.1 231828.0 -0601.7  
6211 9.5 231835.3 -0655.0  
6212 10.1 231850.1 -0645.6  
6213 8.2 231910.3 -0601.6

6214 9.3 231941.2 -0623.4  
6215 9.3 231950.1 -0620.3  
6216 9.3 232027.1 -0617.0  
6217 9.5 232033.1 -0630.3  
6218 8.5 232047.6 -0637.1  
6219 10.1 232052.1 -0605.6  
6220 7.0 232118.2 -0611.1  
6221 9.9 232123.3 -0630.6  
6222 9.1 232211.7 -0611.1  
6223 9.5 232220.7 -0619.8

6224 9.5 232230.6 -0605.3  
6225 9.1 232244.2 -0606.2  
6226 9.8 232272.2 -0607.8  
6227 10.1 232349.8 -0652.3  
6228 9.9 232340.5 -0643.6  
6229 8.6 232508.2 -0656.4  
6230 9.6 232527.8 -0628.6  
6231 9.5 232552.2 -0607.5  
6232 9.6 232625.5 -0643.3  
6233 9.3 232632.0 -0641.9

6234 9.2 232642.2 -0617.5  
6235 10.1 232702.6 -0643.7  
6236 9.7 232718.3 -0610.8  
6237 10.1 232727.2 -0648.4  
6238 10.1 232751.0 -0613.0  
6239 8.8 232818.4 -0632.9  
6240 9.0 232820.4 -0626.2  
6241 9.8 232822.3 -0620.6  
6242 9.1 232826.8 -0648.8  
6243 9.2 232852.4 -0625.5

6244 10.1 232920.9 -0657.8  
6245 9.8 232932.0 -0636.0  
6246 10.1 232948.6 -0612.5  
6247 9.1 233002.3 -0605.9  
6248 8.2 233023.6 -0646.8  
6249 9.3 233029.2 -0605.0  
6250 9.5 233050.7 -0648.3  
6251 8.9 233105.4 -0647.6  
6252 9.3 233147.1 -0645.0  
6253 8.9 233156.8 -0615.6

6254 8.8 233204.3 -0624.9  
6255 10.1 233217.7 -0648.2  
6256 7.3 233223.4 -0620.6  
6257 9.1 233240.3 -0608.7  
6258 9.5 233253.2 -0628.3  
6259 9.8 233303.3 -0601.8  
6260 9.7 233400.9 -0634.4  
6261 8.9 233414.3 -0618.6  
6262 7.8 233424.2 -0646.9  
6263 9.3 233456.9 -0610.5



-06 6264 23h35m

6264 9.8 233503.6 -0629.8  
6265 9.8 233526.8 -0658.3  
6266 9.7 233558.8 -0651.3  
6267 9.7 233604.0 -0620.9  
6268 9.1 233623.3 -0646.2  
6269 8.8 233625.5 -0614.0  
6270 9.5 233627.6 -0630.4  
6271 9.1 233633.1 -0600.5  
6272 9.7 233651.9 -0657.3  
6273 9.0 233658.0 -0635.2

6274 9.5 233709.5 -0655.3  
6275 9.1 233710.2 -0641.2  
6276 8.7 233712.4 -0655.9  
6277 9.5 233738.3 -0603.4  
6278 9.8 233743.8 -0648.2  
6279 10. 233800.7 -0637.7  
6280 9.3 233804.4 -0603.4  
6281 10. 233824.5 -0622.4  
6282 9.1 233826.2 -0444.2  
6283 9.8 233855.3 -0647.8

6284 9.2 233900.6 -0631.8  
6285 9.5 233911.5 -0623.6  
6286 8.5 233916.9 -0615.6  
6287 10. 233935.5 -0623.3  
6288 10. 233943.8 -0648.9  
6289 9.0 233951.7 -0609.1  
6290 9.5 233956.4 -0652.8  
6291 7.8 234010.8 -0638.0  
6292 10. 234020.9 -0657.4  
6293 8.2 234025.4 -0602.8

6294 9.5 234107.2 -0636.4  
6295 9.5 234111.5 -0616.6  
6296 9.0 234116.5 -0613.5  
6297 8.0 234205.8 -0621.5  
6298 9.7 234205.8 -0639.3  
6299 9.8 234255.0 -0625.0  
6300 10. 234258.5 -0608.7  
6301 9.7 234326.8 -0640.6  
6302 9.3 234335.4 -0626.2  
6303 8.7 234419.1 -0629.2

6304 9.2 234421.3 -0618.9  
6305 9.1 234435.6 -0624.5  
6306 9.1 234443.7 -0626.2  
6307 9.4 234455.5 -0604.1  
6308 9.2 234510.4 -0648.2  
6309 9.0 234522.1 -0608.4  
6310 9.8 234559.1 -0614.0  
6311 9.5 234626.6 -0611.3  
6312 9.5 234640.1 -0616.5  
6313 8.9 234655.1 -0631.9

6314 9.3 234750.0 -0603.0  
6315 10. 234757.2 -0627.9  
6316 10. 234757.8 -0637.8  
6317 10. 234808.4 -0610.4  
6318 9.6 234816.6 -0656.7  
6319 9.5 234821.9 -0621.3  
6320 9.3 234823.4 -0621.6  
6321 9.5 234839.1 -0613.0  
6322 8.7 234900.9 -0647.3  
6323 9.8 234922.1 -0609.0

6324 8.0 234943.0 -0616.0  
6325 9.2 234948.1 -0657.2  
6326 9.4 234956.0 -0654.6  
6327 9.5 235000.1 -0619.6  
6328 9.4 235001.6 -0621.6  
6329 7.7 235021.7 -0615.7  
6330 9.5 235035.1 -0610.0  
6331 9.1 235058.5 -0647.8  
6332 9.8 235130.0 -0646.9  
6333 9.6 235137.0 -0648.5

6334 9.4 235141.8 -0600.9  
6335 7.0 235213.9 -0641.8  
6336 10. 235219.6 -0656.4  
6337 8.5 235234.7 -0618.1  
6338 9.6 235247.0 -0639.6  
6339 9.9 235248.0 -0645.6  
6340 9.7 235316.5 -0648.9  
6341 8.0 235336.5 -0638.2  
6342 8.0 235341.0 -0640.6  
6343 9.5 235412.9 -0628.4

6344 9.1 235423.8 -0619.0  
6345 5.0 235430.6 -0649.2  
6346 8.3 235434.1 -0601.3  
6347 9.7 235434.3 -0619.9  
6348 8.7 235458.6 -0652.0  
6349 10. 235546.8 -0613.1  
6350 10. 235548.5 -0635.2  
6351 9.0 235551.3 -0616.2  
6352 10. 235619.0 -0639.5  
6353 9.8 235629.3 -0601.2

6354 9.9 235631.8 -0600.6  
6355 10. 235640.4 -0603.7  
6356 9.2 235732.4 -0623.3  
6357 5.2 235754.3 -0630.9  
6358 9.8 235757.4 -0625.7  
6359 9.4 235836.3 -0630.9  
6360 9.4 235844.4 -0618.7  
6361 9.3 235852.9 -0615.8  
6362 10. 235854.8 -0639.0  
6363 9.3 235919.4 -0633.3

6364 10. 235925.3 -0636.4  
6365 10. 235927.6 -0608.6  
1 9.9 00030.0 -0714.8  
2 9.8 00039.9 -0754.9  
3 7.8 00105.4 -0735.8  
4 9.9 00107.7 -0715.7  
5 9.5 00118.5 -0720.2  
6 10. 00119.9 -0716.4  
7 10. 00207.4 -0716.0  
8 9.9 00219.2 -0720.9

9 8.2 00223.4 -0738.8  
10 9.8 00227.1 -0758.3  
11 9.1 00257.0 -0750.1  
12 9.7 00303.2 -0723.0  
13 9.9 00337.4 -0714.8  
14 10. 00402.5 -0741.3  
15 9.6 00428.2 -0759.0  
16 8.4 00440.8 -0753.6  
17 9.0 00521.3 -0750.3  
18 8.5 00529.0 -0743.0

19 9.9 00643.8 -0744.7  
20 9.1 00648.2 -0752.5  
21 10. 00712.5 -0727.3  
22 9.1 00733.2 -0710.1  
23 9.3 00808.2 -0753.8  
24 10. 00815.2 -0716.0  
25 10. 00823.1 -0713.0  
26 9.1 00828.7 -0744.5  
27 10. 00846.2 -0730.8  
28 10. 00856.2 -0725.7

29 8.5 00857.5 -0750.0  
30 9.4 00909.9 -0700.4  
31 9.5 00924.2 -0710.2  
32 8.6 00928.6 -0759.8  
33 9.2 01030.2 -0722.7  
34 9.5 01046.0 -0753.1  
35 9.3 01049.7 -0722.0  
36 9.8 01133.0 -0713.0  
37 9.8 01133.9 -0725.8  
38 10. 01204.5 -0722.0

39 10. 01315.7 -0752.0  
40 9.8 01322.2 -0713.8  
41 9.5 01433.0 -0740.4  
42 9.8 01449.1 -0754.3  
43 9.0 01510.8 -0726.9  
44 9.1 01511.6 -0707.9  
45 9.7 01532.1 -0721.0  
46 9.2 01525.3 -0716.8  
47 8.5 01536.4 -0710.3  
48 7.6 01537.0 -0715.9

49 10. 01607.2 -0714.7  
50 9.4 01608.7 -0759.7  
51 9.6 01740.3 -0725.1  
52 9.8 01743.3 -0722.4  
53 10. 01759.4 -0740.6  
54 9.6 01811.5 -0713.3  
55 9.4 01845.2 -0721.2  
56 9.5 01855.3 -0731.9  
57 9.1 01943.4 -0724.5  
58 10. 01952.9 -0706.4

59 10. 02020.3 -0734.1  
60 9.5 02103.7 -0748.8  
61 10. 02122.1 -0717.5  
62 10. 02132.8 -0742.1  
63 8.7 02159.2 -0718.9  
64 9.0 02214.6 -0737.9  
65 9.4 02216.1 -0741.4  
66 10. 02218.7 -0704.6  
67 8.9 02300.4 -0703.9  
68 9.3 02308.0 -0720.2

69 9.7 02310.2 -0717.7  
70 10. 02321.2 -0710.8  
71 9.8 02400.0 -0726.8  
72 9.0 02425.7 -0737.8  
73 8.5 02434.4 -0707.2  
74 9.9 02456.8 -0751.9  
75 8.9 02511.9 -0700.9  
76 9.5 02539.6 -0746.4  
77 9.1 02556.6 -0711.8  
78 9.9 02608.2 -0744.3

79 9.1 02635.0 -0701.9  
80 8.5 02639.4 -0753.4  
81 9.5 02645.3 -0700.1  
82 7.7 02705.3 -0718.1  
83 9.7 02727.5 -0706.5  
84 8.8 02743.3 -0746.1  
85 9.1 02758.5 -0711.4  
86 9.7 02820.2 -0730.7  
87 9.9 02843.0 -0704.3  
88 9.1 02844.2 -0736.8

89 9.5 02908.7 -0735.5  
90 8.3 02933.6 -0721.4  
91 9.7 03000.5 -0730.4  
92 10. 03035.7 -0728.1  
93 10. 03039.2 -0708.5  
94 9.1 03105.8 -0737.5  
95 9.8 03151.4 -0745.9  
96 9.5 03230.5 -0749.0  
97 9.5 03238.7 -0753.6  
98 9.7 03242.3 -0740.5

99 9.7 03310.1 -0716.7  
100 9.6 03319.6 -0722.4  
101 9.5 03328.1 -0700.0  
102 8.4 03333.9 -0754.7  
103 9.6 03414.2 -0714.4  
104 9.7 03426.0 -0711.3  
105 9.4 03440.1 -0758.6  
106 8.5 03449.6 -0702.5  
107 8.7 03516.4 -0739.6  
108 10. 03556.8 -0718.0

109 7.8 03557.4 -0707.8  
110 9.0 03610.8 -0712.2  
111 9.5 03616.9 -0737.1  
112 9.1 03650.2 -0716.8  
113 9.7 03652.3 -0723.4  
114 9.1 03653.5 -0741.7  
115 9.8 03731.4 -0724.0  
116 9.8 03753.6 -0753.9  
117 8.3 03854.8 -0721.3  
118 8.6 03905.4 -0728.9

119 9.1 03920.9 -0721.3  
120 9.1 03921.7 -0728.2  
121 9.3 03923.7 -0708.1  
122 9.1 03954.8 -0721.5  
123 9.5 04016.1 -0751.8  
124 9.2 04023.5 -0756.7  
125 9.9 04049.8 -0758.4  
126 9.5 04121.0 -0719.7  
127 9.5 04122.9 -0728.2  
128 9.7 04315.8 -0710.7

129 9.1 04356.6 -0743.8  
130 8.6 04434.9 -0754.7  
131 9.8 04439.6 -0711.2  
132 9.4 04505.4 -0725.7  
133 9.4 04520.1 -0745.8  
134 9.8 04534.2 -0746.5  
135 10. 04615.2 -0746.2  
136 10. 04720.5 -0717.8  
137 9.5 04736.0 -0758.4  
138 8.6 04756.1 -0707.4

139 10. 04801.7 -0746.7  
140 9.8 04803.1 -0736.8  
141 10. 04803.7 -0747.6  
142 9.0 04808.6 -0711.8  
143 9.5 04810.8 -0752.8  
144 10. 04812.4 -0714.6  
145 9.9 04854.4 -0732.0  
146 8.1 04906.6 -0730.2  
147 9.0 04909.8 -0722.8  
148 9.6 04940.0 -0743.6

149 9.0 04958.3 -0708.0  
150 9. 05024.5 -0730.1  
151 9.7 05045.9 -0757.8  
152 9.8 05100.8 -0728.4  
153 9.1 05111.1 -0745.9  
154 9.7 05125.3 -0759.2  
155 9.8 05133.9 -0726.6  
156 9.6 05147.4 -0744.5  
157 9.4 05244.3 -0708.5  
158 9.4 05251.1 -0738.2

159 7.3 05414.5 -0734.5  
160 9.5 05429.3 -0705.8  
161 9.8 05442.5 -0734.7  
162 9.5 05445.5 -0715.0  
163 9.4 05446.3 -0711.3  
164 9.4 05451.7 -0751.9  
165 8.7 05505.0 -0728.8  
166 9.6 05551.6 -0759.1  
167 9.1 05601.5 -0719.3  
168 10. 05643.2 -0700.3

169 9.2 05658.1 -0714.9  
170 10. 05718.7 -0747.8  
171 9.6 05815.1 -0746.5  
172 10. 05820.5 -0751.7  
173 8.9 05828.8 -0728.8  
174 9.2 05913.1 -0720.6  
175 9.0 10019.2 -0702.2  
176 10. 10043.7 -0755.0  
177 10. 10049.5 -0756.6  
178 9.3 10052.1 -0734.8

179 10. 10107.4 -0703.8  
180 10. 10115.5 -0755.2  
181 9.3 10153.8 -0751.7  
182 9.4 10154.5 -0701.1  
183 9.1 10213.5 -0728.3  
184 10. 10223.6 -0755.8  
185 8.8 10242.9 -0750.2  
186 9.7 10246.8 -0753.7  
187 8.9 10253.6 -0734.3  
188 10. 10301.7 -0733.0

189 9.7 10302.4 -0719.4  
190 8.8 10337.0 -0726.0  
191 9.5 10341.3 -0741.7  
192 8.5 10350.2 -0756.5  
193 9.0 10401.8 -0745.9  
194 9.8 10410.6 -0725.2  
195 9.8 10455.1 -0725.4  
196 6.5 10530.2 -0733.0  
197 9.4 10634.9 -0748.4  
198 9.1 10715.7 -0730.7

199 9.2 10749.0 -0720.3  
200 9.7 10821.5 -0721.1  
201 9.2 10841.9 -0752.1  
202 8.9 10849.8 -0718.9  
203 9.8 10852.5 -0732.0  
204 8.7 10859.9 -0755.1  
205 9.5 10926.2 -0720.2  
206 9.5 10928.7 -0737.0  
207 9.4 11013.3 -0756.8  
208 9.5 11114.1 -0726.4

209 8.5 11136.4 -0703.5  
210 9.8 11139.0 -0754.6  
211 9.0 11209.7 -0721.8  
212 8.9 11343.9 -0742.9  
213 9.5 11351.0 -0752.5  
214 9.3 11351.7 -0713.4  
215 8.9 11351.9 -0705.5  
216 9.7 11407.2 -0729.1  
217 9.0 11408.8 -0749.5  
218 9.8 11420.7 -0722.2

219 9.4 11439.2 -0758.0  
220 9.3 11453.3 -0756.0  
221 9.2 11500.5 -0751.4  
222 9.0 11632.4 -0736.0  
223 6.0 11703.5 -0740.4  
224 7.8 11732.0 -0744.7  
225 9.0 11756.4 -0755.0  
226 9.3 11757.6 -0733.9  
227 8.9 11758.0 -0714.0  
228 9.5 11840.8 -0700.8

229 8.0 11850.2 -0724.6  
230 9.7 11920.4 -0706.0  
231 9.8 11937.7 -0758.7  
232 8.7 11943.5 -0705.8  
233 9.9 11955.1 -0752.5  
234 9.7 12017.7 -0759.2  
235 9.5 12021.0 -0710.7  
236 9.5 12048.7 -0751.0  
237 9.0 12105.5 -0733.8  
238 10. 12147.5 -0759.3

239 8.1 12149.5 -0735.9  
240 8.7 12221.4 -0721.2  
241 9.2 12237.9 -0726.3  
242 9.1 12238.8 -0724.7  
243 9.3 12247.5 -0744.8  
244 9.1 12250.1 -0716.6  
245 9.8 12303.4 -0735.9  
246 7.8 12355.0 -0746.6  
247 10. 12357.1 -0747.5  
248 9.7 12404.8 -0737.0

249 9.7 12443.1 -0751.3  
250 7.6 12444.4 -0728.3  
251 10. 12530.7 -0739.6  
252 10. 12535.3 -0746.7  
253 10. 12537.0 -0714.0  
254 9.0 12607.5 -0756.0  
255 9.8 12617.5 -0714.4  
256 6.1 12652.2 -0745.7  
257 8.5 12659.4 -0701.0  
258 9.8 12720.3 -0716.6

-07 258 1h27m



-07 259 1h27m

259 9.1 12736.9 -0733.1  
260 9.5 12739.3 -0753.0  
261 9.5 12807.2 -0720.0  
262 9.3 12834.6 -0741.2  
263 9.6 12843.5 -0735.6  
264 9.5 12853.0 -0734.5  
265 8.7 12853.1 -0708.3  
266 9.8 12909.2 -0741.0  
267 10. 13010.4 -0704.5  
268 7.8 13017.9 -0729.7  
  
269 8.5 13053.8 -0723.6  
270 8.7 13056.1 -0739.0  
271 9.8 13117.5 -0714.8  
272 9.0 13146.1 -0706.2  
273 9.5 13220.3 -0720.9  
274 10. 13241.4 -0714.2  
275 9.0 13259.8 -0721.6  
276 8.2 13332.2 -0720.6  
277 9.2 13344.4 -0727.6  
278 9.5 13349.4 -0756.8  
  
279 9.3 13350.1 -0748.2  
280 8.9 13410.0 -0731.9  
281 9.2 13429.1 -0703.1  
282 8.2 13508.5 -0729.0  
283 8.7 13606.9 -0749.1  
284 8.4 13607.7 -0748.2  
285 9.3 13617.9 -0726.7  
286 10. 13654.1 -0750.6  
287 7.0 13728.3 -0730.0  
288 8.3 13728.4 -0723.7  
  
289 9.6 13812.3 -0755.8  
290 9.5 13832.9 -0726.3  
291 8.7 13849.4 -0710.3  
292 10. 13925.6 -0745.8  
293 9.4 13926.2 -0758.7  
294 9.4 14002.5 -0754.7  
295 9.4 14007.8 -0735.5  
296 9.0 14022.4 -0725.0  
297 10. 14101.1 -0733.1  
298 9.8 14109.9 -0747.1  
  
299 9.5 14133.1 -0755.4  
300 9.1 14133.7 -0724.9  
301 9.5 14142.7 -0712.1  
302 9.6 14155.2 -0759.1  
303 9.1 14156.4 -0750.4  
304 9.3 14200.8 -0745.5  
305 9.4 14227.7 -0702.7  
306 8.5 14245.6 -0726.1  
307 7.4 14258.5 -0725.2  
308 9.7 14334.8 -0725.7  
  
309 8.7 14337.6 -0751.4  
310 6.8 14423.2 -0735.2  
311 9.8 14459.8 -0709.2  
312 9.5 14512.9 -0717.9  
313 10. 14514.7 -0730.0  
314 9.5 14528.5 -0748.5  
315 9.5 14553.1 -0700.3  
316 9.5 14605.4 -0712.8  
317 9.6 14653.6 -0725.8  
318 8.3 14728.0 -0744.1  
  
319 7.9 14732.4 -0718.6  
320 9.8 14740.0 -0714.0  
321 9.8 14743.1 -0747.9  
322 9.5 14822.8 -0700.4  
323 9.0 14835.6 -0710.4  
324 9.4 14918.0 -0750.0  
325 9.5 14927.6 -0726.8  
326 9.5 14928.5 -0729.2  
327 9.2 14945.9 -0740.7  
328 9.0 14952.6 -0726.6  
  
329 9.8 15010.3 -0734.7  
330 7.7 15016.2 -0731.9  
331 9.8 15038.1 -0706.0  
332 9.4 15039.1 -0729.8  
333 9.0 15108.1 -0750.2  
334 7.0 15113.5 -0746.8  
335 10. 15119.9 -0739.1  
336 9.3 15141.8 -0732.5  
337 8.3 15217.8 -0704.8  
338 9.1 15237.6 -0749.4  
  
339 8.3 15241.5 -0743.2  
340 9.4 15242.8 -0735.1  
341 9.8 15314.9 -0736.2  
342 10. 15356.9 -0719.0  
343 8.3 15412.4 -0714.7  
344 9.6 15415.7 -0754.0  
345 9.6 15458.6 -0757.8  
346 9.8 15518.4 -0754.3  
347 8.5 15529.7 -0722.4  
348 9.8 15631.5 -0742.7

349 9.8 15650.2 -0746.4  
350 8.7 15659.0 -0734.9  
351 8.7 15659.2 -0714.5  
352 9.0 15706.9 -0708.6  
353 9.8 15738.4 -0711.1  
354 9.8 15748.3 -0706.4  
355 9.2 15821.1 -0740.5  
356 8.8 15844.7 -0751.7  
357 9.4 15845.7 -0747.0  
358 10. 15932.6 -0717.5  
  
359 9.2 15957.0 -0736.2  
360 10. 15957.1 -0740.2  
361 8.6 20000.4 -0754.6  
362 9.4 20001.3 -0700.8  
363 8.8 20014.9 -0703.2  
364 9.8 20111.6 -0745.0  
365 8.5 20112.5 -0709.2  
366 6.8 20120.2 -0721.8  
367 9.8 20154.7 -0721.6  
368 9.9 20207.4 -0731.1  
  
369 9.8 20213.5 -0735.6  
370 10. 20217.3 -0755.2  
371 9.4 20309.0 -0707.8  
372 8.5 20311.1 -0741.2  
373 9.9 20316.9 -0707.3  
374 9.8 20323.3 -0750.3  
375 9.8 20425.0 -0735.6  
376 9.8 20526.5 -0748.0  
377 9.9 20544.2 -0743.1  
378 10. 20545.0 -0745.2  
  
379 9.4 20545.0 -0704.2  
380 9.5 20630.9 -0728.6  
381 8.5 20641.0 -0703.3  
382 8.8 20651.7 -0756.2  
383 9.4 20653.6 -0714.5  
384 9.1 20657.5 -0730.6  
385 10. 20711.4 -0700.2  
386 9.8 20729.9 -0700.2  
387 8.2 20742.4 -0719.7  
388 9.6 20748.5 -0727.2  
  
389 8.5 20809.4 -0747.8  
390 9.4 20838.2 -0738.5  
391 9.9 20910.0 -0759.6  
392 7.5 20944.3 -0715.2  
393 5.5 20945.1 -0705.2  
394 9.5 21033.6 -0736.5  
395 9.2 21042.1 -0758.1  
396 9.5 21054.9 -0710.3  
397 8.5 21111.7 -0717.0  
398 9.7 21120.6 -0713.4  
  
399 9.1 21131.6 -0711.2  
400 8.8 21154.1 -0731.4  
401 10. 21158.5 -0701.0  
402 9.1 21210.3 -0744.1  
403 9.4 21212.9 -0750.2  
404 9.6 21245.4 -0722.7  
405 9.5 21307.8 -0717.7  
406 9.1 21308.5 -0714.6  
407 8.0 21318.6 -0702.5  
408 9.1 21333.8 -0757.7  
  
409 10. 21402.6 -0713.3  
410 9.0 21430.1 -0732.6  
411 8.5 21433.8 -0718.5  
412 9.6 21434.0 -0708.5  
413 9.5 21538.5 -0728.4  
414 9.1 21542.4 -0716.1  
415 9.8 21549.7 -0749.5  
416 10. 21551.6 -0708.8  
417 9.8 21616.7 -0716.8  
418 9.5 21649.1 -0704.5  
  
419 8.7 21701.2 -0726.7  
420 9.5 21701.5 -0705.8  
421 9.5 21712.3 -0741.3  
422 9.8 21714.3 -0733.8  
423 9.0 21715.0 -0722.9  
424 9.5 21730.4 -0759.2  
425 9.3 21753.7 -0731.3  
426 10. 21817.6 -0741.6  
427 10. 21842.0 -0715.0  
428 9.5 21846.5 -0737.4  
  
429 8.5 21928.6 -0738.2  
430 9.7 21932.5 -0759.5  
431 8.5 21935.2 -0705.2  
432 6.8 22027.0 -0734.6  
433 9.8 22032.9 -0714.7  
434 9.7 22033.6 -0736.4  
435 9.0 22048.6 -0751.2  
436 9.3 22125.7 -0742.6  
437 9.1 22132.8 -0748.0  
438 9.8 22157.3 -0710.0

439 9.5 22204.0 -0752.2  
440 9.0 22212.3 -0743.0  
441 9.4 22220.8 -0743.4  
442 9.7 22237.0 -0717.8  
443 9.7 22317.3 -0744.1  
444 9.1 22400.6 -0732.8  
445 9.4 22419.5 -0726.2  
446 9.5 22420.3 -0728.3  
447 8.3 22508.9 -0748.4  
448 9.0 22519.4 -0723.2  
  
449 9.0 22601.1 -0730.7  
450 9.8 22612.2 -0736.0  
451 9.5 22709.0 -0701.6  
452 9.4 22734.9 -0755.7  
453 9.5 22749.2 -0733.6  
454 9.3 22756.5 -0723.1  
455 10. 22756.8 -0705.8  
456 9.5 22835.7 -0719.3  
457 9.8 22853.7 -0716.3  
458 9.3 22942.7 -0729.1  
  
459 9.1 23024.8 -0716.0  
460 9.4 23033.5 -0717.5  
461 9.7 23039.7 -0714.4  
462 9.8 23049.6 -0749.0  
463 9.5 23108.9 -0741.2  
464 9.4 23132.2 -0735.8  
465 9.9 23156.4 -0704.9  
466 9.3 23159.0 -0716.6  
467 9.5 23231.4 -0700.3  
468 9.4 23330.2 -0729.8  
  
469 9.3 23332.7 -0735.7  
470 9.9 23429.8 -0728.8  
471 9.5 23505.4 -0757.1  
472 9.0 23508.2 -0748.5  
473 8.2 23541.4 -0706.4  
474 7.6 23555.8 -0715.7  
475 9.5 23610.0 -0744.3  
476 9.4 23611.5 -0748.7  
477 9.7 23636.4 -0759.4  
478 9.2 23636.9 -0727.8  
  
479 8.5 23642.1 -0748.8  
480 9.8 23648.9 -0709.0  
481 8.1 23658.1 -0701.8  
482 9.5 23731.0 -0721.3  
483 9.5 23827.2 -0726.6  
484 9.2 23834.8 -0756.2  
485 9.4 23840.4 -0713.3  
486 9.0 23853.7 -0725.8  
487 9.1 23857.5 -0758.1  
488 9.7 23923.8 -0758.0  
  
489 7.9 23924.6 -0718.7  
490 8.7 23933.9 -0736.3  
491 9.2 23935.7 -0726.5  
492 9.8 23943.8 -0706.0  
493 9.1 23952.1 -0705.1  
494 9.5 24014.6 -0716.7  
495 9.4 24020.9 -0735.8  
496 10. 24033.1 -0758.8  
497 10. 24132.5 -0749.0  
498 10. 24135.6 -0747.9  
  
499 9.6 24155.3 -0759.2  
500 9.5 24204.4 -0733.7  
501 9.3 24205.4 -0746.4  
502 8.9 24216.8 -0745.0  
503 9.7 24244.8 -0756.5  
504 9.5 24301.1 -0743.0  
505 7.5 24310.9 -0724.5  
506 8.5 24311.2 -0722.0  
507 9.6 24348.2 -0720.8  
508 9.1 24349.0 -0702.8  
  
509 9.0 24408.6 -0749.8  
510 8.7 24428.6 -0713.8  
511 9.9 24500.8 -0714.4  
512 9.1 24545.6 -0756.5  
513 9.3 24609.0 -0715.6  
514 9.8 24659.5 -0702.5  
515 9.1 24711.6 -0739.8  
516 9. 24750.7 -0733.1  
517 9.5 24753.8 -0735.6  
518 8.8 24816.3 -0725.0  
  
519 8.8 24832.3 -0713.0  
520 9.5 24918.7 -0756.6  
521 9.2 24925.0 -0748.6  
522 9.3 24935.3 -0714.2  
523 9.6 25005.9 -0755.4  
524 10. 25047.3 -0720.0  
525 10. 25055.6 -0759.5  
526 9.1 25056.5 -0740.4  
527 9.4 25110.3 -0718.4  
528 9.4 25115.5 -0739.8

529 9.5 25128.7 -0708.0  
530 9.2 25149.5 -0720.3  
531 9.2 25150.8 -0723.9  
532 8.7 25222.7 -0711.7  
533 6.7 25228.2 -0745.5  
534 8.3 25329.2 -0708.9  
535 10. 25354.1 -0719.0  
536 9.5 25418.7 -0707.7  
537 6.3 25459.2 -0703.4  
538 9.2 25510.9 -0746.3  
  
539 9.7 25522.1 -0759.7  
540 9.1 25527.6 -0734.9  
541 9.3 25617.0 -0751.6  
542 8.7 25619.8 -0742.5  
543 8.9 25715.0 -0725.8  
544 10. 25757.3 -0722.9  
545 9.9 25805.7 -0701.3  
546 8.0 25930.6 -0712.3  
547 9.0 25953.9 -0748.1  
548 9.3 30003.7 -0752.6  
  
549 9.9 30021.4 -0708.6  
550 10. 30025.5 -0720.8  
551 9.4 30156.3 -0737.1  
552 9.2 30216.1 -0754.3  
553 9.8 30244.4 -0727.2  
554 9.1 30250.4 -0743.0  
555 9.8 30300.6 -0755.7  
556 8.8 30331.3 -0736.6  
557 8.0 30333.5 -0704.4  
558 8.5 30339.3 -0707.2  
  
559 9.4 30344.9 -0715.1  
560 9.1 30438.5 -0751.6  
561 8.7 30449.4 -0720.9  
562 9.2 30458.3 -0703.4  
563 8.9 30531.6 -0725.0  
564 9.5 30624.4 -0709.7  
565 9.4 30628.3 -0701.0  
566 9.4 30629.8 -0701.6  
567 9.8 30633.6 -0759.9  
568 10. 30643.7 -0727.0  
  
569 7.2 30646.1 -0711.8  
570 9.4 30647.6 -0749.1  
571 8.2 30720.0 -0743.1  
572 10. 30724.3 -0735.0  
573 9.9 30725.1 -0750.6  
574 7.3 30733.3 -0714.9  
575 9.1 30745.8 -0733.9  
576 9.3 30831.5 -0714.1  
577 9.1 30930.2 -0752.0  
578 9.3 31053.3 -0728.9  
  
579 9.6 31129.8 -0748.7  
580 9.2 31149.1 -0732.8  
581 9.5 31203.2 -0726.2  
582 9.1 31225.4 -0746.0  
583 9.0 31311.6 -0757.5  
584 9.6 31326.7 -0747.1  
585 9.2 31416.1 -0716.5  
586 9.8 31450.2 -0721.3  
587 9.4 31508.5 -0739.8  
588 9.1 31527.0 -0739.0  
  
589 9.2 31549.4 -0735.7  
590 8.5 31629.5 -0746.0  
591 9.0 31640.2 -0743.1  
592 9.4 31700.7 -0755.9  
593 8.7 31702.1 -0713.2  
594 9.1 31717.3 -0752.4  
595 9.8 31733.6 -0713.7  
596 8.0 31803.8 -0714.7  
597 9.1 31824.1 -0712.3  
598 8.6 31850.6 -0738.1  
  
599 9.8 31903.0 -0706.0  
600 9.6 31957.4 -0758.5  
601 8.9 32021.9 -0728.9  
602 9.1 32036.6 -0735.3  
603 8.2 32111.0 -0701.6  
604 9.2 32114.1 -0718.2  
605 9.8 32222.4 -0738.4  
606 6.2 32232.9 -0718.3  
607 8.6 32251.2 -0729.4  
608 9.3 32259.6 -0755.0  
  
609 9.8 32301.3 -0708.9  
610 8.9 32301.6 -0712.4  
611 9.5 32321.5 -0746.8  
612 10. 32330.3 -0754.6  
613 9.4 32331.9 -0717.9  
614 9.3 32337.6 -0712.8  
615 9.5 32422.0 -0741.8  
616 9.4 32433.7 -0715.9  
617 8.8 32456.3 -0718.8  
618 7.3 32511.0 -0734.7

-07 618 3h25m



-07 619 3h25m

619 9.2 32512.3 -0734.7  
620 9.9 32521.7 -0728.2  
621 9.8 32531.8 -0735.8  
622 8.7 32547.6 -0749.9  
623 9.3 32612.1 -0745.8  
624 7.7 32633.5 -0754.1  
625 8.2 32636.3 -0755.3  
626 9.7 32709.7 -0713.8  
627 7.8 32709.9 -0700.1  
628 9.4 32712.4 -0738.3  
  
629 8.5 32734.7 -0751.8  
630 9.4 32740.7 -0739.5  
631 8.7 32832.4 -0708.8  
632 9.4 32842.7 -0749.7  
633 9.1 32901.0 -0738.6  
634 9.3 32908.7 -0726.5  
635 9.8 32918.2 -0707.2  
636 9.3 32928.2 -0713.3  
637 9.1 32934.5 -0705.8  
638 9.1 32940.9 -0736.5  
  
639 9.8 32956.1 -0722.9  
640 9.5 33028.7 -0728.1  
641 9.2 33034.9 -0728.3  
642 9.0 33049.7 -0727.4  
643 9.3 33055.7 -0727.6  
644 7.7 33106.1 -0757.6  
645 9.6 33110.4 -0717.5  
646 9.8 33117.3 -0731.3  
647 6.0 33125.5 -0751.6  
648 9.3 33130.1 -0714.3  
  
649 9.4 33139.4 -0702.3  
650 9.5 33205.8 -0705.2  
651 9.5 33207.1 -0718.6  
652 9.5 33219.8 -0758.1  
653 9.1 33224.1 -0731.4  
654 7.0 33241.1 -0715.1  
655 9.0 33354.7 -0710.2  
656 9.3 33423.7 -0701.1  
657 9.6 33441.8 -0727.3  
658 8.5 33502.6 -0742.5  
  
659 9.8 33512.3 -0729.5  
660 9.8 33515.4 -0740.1  
661 9.5 33518.9 -0719.3  
662 9.4 33524.9 -0717.3  
663 9.1 33604.5 -0757.7  
664 9.5 33643.2 -0724.5  
665 9.5 33652.7 -0719.8  
666 9.5 33706.8 -0723.5  
667 10. 33710.6 -0723.4  
668 9.4 33721.3 -0722.6  
  
669 9.5 33739.8 -0750.1  
670 9.6 33745.9 -0718.5  
671 9.6 33747.6 -0721.0  
672 9.3 33810.7 -0741.5  
673 10. 33817.0 -0733.7  
674 9.1 33818.2 -0741.7  
675 9.8 33852.5 -0755.7  
676 9.1 33918.4 -0725.1  
677 9.5 33924.0 -0709.9  
678 9.5 33925.8 -0711.7  
  
679 9.6 33941.8 -0748.4  
680 9.5 34001.0 -0753.5  
681 8.0 34044.5 -0728.5  
682 8.4 34108.9 -0702.5  
683 9.5 34125.4 -0737.5  
684 8.0 34133.9 -0715.8  
685 7.0 34142.8 -0727.5  
686 9.7 34159.6 -0759.7  
687 7.7 34247.3 -0758.0  
688 8.5 34325.7 -0721.4  
  
689 9.5 34337.5 -0730.8  
690 9.8 34356.5 -0732.3  
691 9.7 34406.2 -0712.0  
692 9.6 34408.6 -0703.2  
693 9.1 34444.0 -0706.5  
694 10. 34530.9 -0738.7  
695 6.6 34602.5 -0703.7  
696 9.7 34607.3 -0754.9  
697 9.3 34607.7 -0723.6  
698 9.0 34718.4 -0715.0  
  
699 9.2 34731.0 -0716.6  
700 9.5 34747.8 -0715.8  
701 9.6 34755.3 -0732.8  
702 9.9 34800.9 -0732.9  
703 9.2 34808.2 -0701.0  
704 9.7 34809.0 -0749.3  
705 9.4 34841.1 -0720.2  
706 8.3 34850.3 -0742.5  
707 8.7 34907.7 -0722.0  
708 8.7 34942.0 -0713.4

709 8.2 35005.1 -0735.0  
710 8.5 35033.9 -0725.1  
711 9.2 35037.3 -0740.1  
712 8.7 35051.2 -0732.5  
713 8.5 35106.4 -0721.6  
714 9.5 35151.2 -0706.0  
715 9.5 35208.4 -0745.0  
716 9.9 35227.2 -0714.8  
717 9.4 35255.2 -0758.1  
718 9.8 35304.3 -0719.4  
  
719 9.5 35318.1 -0754.0  
720 9.6 35339.2 -0746.1  
721 10. 35354.6 -0750.8  
722 9.3 35455.2 -0708.5  
723 9.4 35513.3 -0743.8  
724 8.6 35518.4 -0724.8  
725 10. 35526.6 -0702.4  
726 9.5 35533.8 -0709.7  
727 9.8 35534.3 -0706.4  
728 8.2 35615.6 -0719.1  
  
729 9.2 35641.9 -0722.5  
730 9.1 35655.9 -0745.9  
731 8.4 35716.1 -0755.8  
732 9.2 35717.2 -0704.8  
733 9.7 35725.7 -0724.1  
734 8.5 35732.3 -0709.1  
735 9.5 35801.9 -0719.9  
736 9.7 35802.5 -0759.8  
737 8.5 35807.6 -0750.2  
738 8.0 35827.9 -0759.9  
  
739 9.0 35830.0 -0724.8  
740 9.4 35836.7 -0721.5  
741 9.5 35838.0 -0705.9  
742 9.4 35905.5 -0756.1  
743 10. 35905.9 -0741.0  
744 9.2 35937.4 -0740.0  
745 10. 40021.8 -0738.0  
746 8.6 40023.2 -0720.8  
747 9.1 40031.2 -0727.5  
748 10. 40046.5 -0701.3  
  
749 9.7 40108.3 -0756.5  
750 9.7 40117.9 -0750.5  
751 9.9 40121.8 -0703.9  
752 9.0 40127.5 -0751.8  
753 9.5 40152.2 -0757.5  
754 9.0 40218.4 -0743.7  
755 10. 40223.5 -0750.3  
756 9.5 40243.8 -0720.7  
757 9.1 40312.2 -0714.4  
758 6.1 40318.5 -0718.2  
  
759 9.4 40330.0 -0721.6  
760 9.6 40347.7 -0757.9  
761 9.0 40348.6 -0734.7  
762 9.5 40421.4 -0707.2  
763 9.0 40429.1 -0720.9  
764 4.4 40446.8 -0712.7  
765 9.0 40455.8 -0700.7  
766 9.8 40458.3 -0704.7  
767 9.8 40516.1 -0716.0  
768 8.9 40536.5 -0712.4  
  
769 9.8 40600.7 -0700.4  
770 9.4 40621.2 -0700.2  
771 9.5 40652.5 -0756.8  
772 9.8 40710.2 -0733.8  
773 8.5 40720.6 -0720.3  
774 9.2 40735.4 -0742.9  
775 9.1 40742.2 -0735.3  
776 8.9 40746.2 -0733.0  
777 9.5 40748.3 -0700.5  
778 9.3 40754.2 -0731.7  
  
779 9.0 40815.5 -0735.7  
780 4.7 40832.6 -0753.8  
781 9.1 40838.6 -0754.2  
782 9.8 40901.5 -0732.7  
783 9.8 40901.6 -0740.3  
784 9.3 40915.5 -0713.1  
785 8.1 40928.9 -0705.2  
786 9.5 40935.9 -0740.0  
787 9.4 40936.3 -0739.0  
788 9.2 41010.9 -0745.5  
  
789 9.5 41032.4 -0738.8  
790 9.8 41041.2 -0756.1  
791 9.2 41104.7 -0709.1  
792 8.2 41201.4 -0746.8  
793 10. 41216.9 -0704.0  
794 9.5 41238.4 -0705.1  
795 9.2 41304.9 -0722.4  
796 10. 41315.1 -0725.0  
797 9.3 41322.5 -0745.0  
798 6.3 41341.4 -0756.2

799 9.1 41348.2 -0754.4  
800 9.0 41348.5 -0722.9  
801 9.1 41431.7 -0738.0  
802 9.7 41512.4 -0707.5  
803 8.9 41530.2 -0753.1  
804 9.2 41549.3 -0732.0  
805 9.8 41606.2 -0754.4  
806 9.4 41631.3 -0734.1  
807 9.1 41709.1 -0718.8  
808 10. 41742.8 -0722.5  
  
809 9.3 41811.7 -0724.3  
810 10. 41841.1 -0722.2  
811 9.5 41901.0 -0711.3  
812 9.5 41927.5 -0741.4  
813 7.5 41942.7 -0712.1  
814 8.8 41950.6 -0753.3  
815 9.9 42008.5 -0708.0  
816 9.6 42028.1 -0741.9  
817 9.5 42111.0 -0738.0  
818 9.5 42120.1 -0714.8  
  
819 9.8 42129.6 -0745.4  
820 8.2 42130.2 -0752.7  
821 9.6 42132.5 -0758.6  
822 9.5 42141.4 -0711.3  
823 9.0 42151.2 -0724.8  
824 9.9 42154.5 -0704.6  
825 9.0 42222.4 -0732.1  
826 9.0 42301.0 -0739.6  
827 9.3 42337.2 -0725.0  
828 9.0 42341.4 -0700.7  
  
829 8.3 42343.3 -0733.5  
830 9.6 42402.1 -0745.4  
831 9.4 42432.2 -0757.6  
832 9.0 42432.5 -0720.5  
833 9.5 42533.4 -0733.6  
834 9.1 42550.3 -0704.7  
835 9.8 42552.4 -0749.5  
836 9.2 42610.0 -0742.4  
837 7.2 42628.6 -0717.9  
838 5.8 42650.9 -0702.4  
  
839 9.8 42700.4 -0713.0  
840 9.3 42705.5 -0741.4  
841 6.5 42711.2 -0738.5  
842 9.8 42721.2 -0727.8  
843 10. 42725.3 -0757.7  
844 9.5 42751.1 -0711.8  
845 8.3 42754.1 -0717.5  
846 9.8 42757.6 -0724.4  
847 9.0 42804.8 -0735.9  
848 10. 42848.4 -0713.9  
  
849 9.4 42901.0 -0722.1  
850 9.6 42925.7 -0754.5  
851 9.5 42930.1 -0755.0  
852 9.6 42935.8 -0755.1  
853 9.8 42941.3 -0721.6  
854 9.1 43007.2 -0756.1  
855 9.7 43025.2 -0736.5  
856 10. 43047.7 -0704.1  
857 9.5 43052.0 -0754.0  
858 9.8 43107.5 -0719.5  
  
859 9.5 43109.7 -0743.6  
860 10. 43126.9 -0704.1  
861 8.7 43138.8 -0748.6  
862 9.3 43146.0 -0711.0  
863 9.0 43152.6 -0714.6  
864 8.7 43153.7 -0741.1  
865 10. 43217.5 -0743.8  
866 9.7 43217.9 -0725.4  
867 9.1 43229.6 -0711.8  
868 9.6 43243.0 -0706.2  
  
869 8.5 43254.7 -0729.8  
870 9.5 43300.8 -0734.7  
871 9.6 43302.6 -0754.4  
872 10. 43306.1 -0722.5  
873 9.4 43309.1 -0715.4  
874 9.4 43347.7 -0712.6  
875 9.0 43354.7 -0733.8  
876 7.5 43400.9 -0731.5  
877 9.5 43508.5 -0741.4  
878 9.8 43532.8 -0721.8  
  
879 9.8 43533.7 -0711.1  
880 9.3 43550.4 -0736.4  
881 9.5 43554.8 -0755.8  
882 8.5 43566.0 -0741.0  
883 9.0 43609.1 -0725.2  
884 9.0 43612.1 -0700.8  
885 10. 43622.2 -0758.8  
886 8.9 43649.5 -0718.9  
887 9.8 43706.0 -0740.7  
888 9.0 43736.3 -0741.0

889 9.3 43742.5 -0743.0  
890 9.7 43815.9 -0727.1  
891 9.5 43821.6 -0743.9  
892 9.1 43848.7 -0751.1  
893 8.0 43857.5 -0715.6  
894 9.6 43923.0 -0751.5  
895 9.5 43925.7 -0702.2  
896 9.4 43954.1 -0746.0  
897 9.8 44100.5 -0704.6  
898 9.8 44103.2 -0759.5  
  
899 8.3 44106.9 -0715.8  
900 9.7 44108.0 -0714.1  
901 9.5 44113.2 -0712.8  
902 8.9 44117.4 -0729.8  
903 8.5 44134.2 -0754.6  
904 10. 44153.1 -0727.7  
905 8.0 44154.7 -0722.0  
906 9.0 44215.5 -0732.0  
907 9.0 44217.6 -0737.8  
908 9.8 44247.2 -0745.4  
  
909 9.6 44303.6 -0742.5  
910 9.9 44304.4 -0731.7  
911 9.1 44334.8 -0711.1  
912 9.5 44402.0 -0712.1  
913 9.5 44413.9 -0745.2  
914 9.5 44432.3 -0755.1  
915 8.8 44455.0 -0704.5  
916 10. 44514.9 -0733.9  
917 7.5 44521.4 -0757.2  
918 9.8 44538.3 -0704.1  
  
919 3.3 44545.2 -0754.1  
920 3.5 44606.9 -0756.1  
921 9.5 44703.7 -0720.4  
922 9.5 44712.8 -0751.4  
923 9.3 44713.9 -0756.5  
924 9.3 44726.1 -0740.1  
925 9.5 44750.7 -0755.2  
926 9.5 44756.1 -0706.7  
927 9.8 44758.6 -0741.7  
928 10. 44806.8 -0712.2  
  
929 9.0 44814.2 -0742.1  
930 9.8 44838.4 -0756.1  
931 9.5 44842.9 -0727.2  
932 9.5 44852.0 -0731.3  
933 9.1 44853.9 -0728.9  
934 9.1 44854.1 -0709.1  
935 9.1 44895.7 -0744.5  
936 8.7 44922.6 -0715.3  
937 9.8 45000.4 -0732.8  
938 9.0 45009.6 -0705.5  
  
939 9.8 45116.3 -0745.0  
940 9.8 45126.6 -0755.5  
941 9.1 45207.2 -0717.2  
942 9.5 45247.3 -0741.9  
943 9.5 45254.7 -0733.5  
944 9.5 45319.4 -0718.0  
945 9.7 45344.3 -0710.5  
946 9.5 45377.7 -0754.1  
947 9.0 45343.8 -0744.9  
948 4.9 45425.2 -0723.3  
  
949 9.0 45438.3 -0722.9  
950 9.4 45439.7 -0718.3  
951 8.6 45447.6 -0735.7  
952 9.5 45447.6 -0755.2  
953 9.3 45450.5 -0725.4  
954 9.4 45453.5 -0719.1  
955 9.1 45457.5 -0720.5  
956 9.5 45457.9 -0703.0  
957 9.2 45462.5 -0715.0  
958 9.6 45555.2 -0721.7  
  
959 9.5 45610.0 -0705.8  
960 9.8 45612.1 -0710.9  
961 8.5 45614.4 -0730.3  
962 9.6 45641.1 -0711.2  
963 9.5 45733.2 -0731.8  
964 9.2 45737.9 -0720.6  
965 9.5 45748.6 -0712.0  
966 9.5 45749.9 -0741.7  
967 9.8 45813.1 -0740.5  
968 9.8 45821.7 -0714.9  
  
969 9.5 45830.3 -0716.4  
970 8.4 45844.8 -0700.3  
971 9.4 45851.0 -0735.8  
972 9.0 45862.3 -0703.2  
973 8.5 45906.0 -0724.9  
974 8.5 45923.3 -0755.9  
975 9.5 45928.4 -0705.0  
976 9.3 45944.4 -0705.0  
977 9.5 45952.8 -0701.4  
978 9.5 45955.0 -0725.3

-07 978 4h59m

C-2



-07 979 5h00m

979 10. 50013.4 -0706.3  
980 10. 50034.8 -0702.3  
981 9.5 50034.9 -0730.9  
982 9.5 50044.2 -0743.4  
983 9.5 50045.9 -0730.9  
984 9.5 50052.9 -0727.8  
985 7.5 50155.7 -0721.9  
986 9.0 50203.3 -0755.9  
987 9.2 50228.9 -0749.1  
988 10. 50234.5 -0749.4  
  
989 8.7 50300.7 -0715.2  
990 9.5 50313.8 -0740.1  
991 9.0 50318.1 -0711.1  
992 9.4 50321.4 -0721.2  
993 8.2 50321.9 -0746.5  
994 10. 50343.4 -0720.0  
995 9.5 50347.9 -0720.1  
996 9.5 50400.5 -0728.1  
997 8.5 50437.1 -0759.8  
998 9.5 50457.6 -0736.0  
  
999 9.5 50458.6 -0731.0  
1000 9.5 50521.5 -0704.3  
1001 9.5 50536.5 -0707.9  
1002 9.7 50542.9 -0727.1  
1003 9.5 50604.4 -0703.4  
1004 9.5 50622.7 -0714.6  
1005 9.0 50630.0 -0730.7  
1006 9.0 50632.6 -0711.0  
1007 9.3 50642.7 -0716.8  
1008 10. 50720.2 -0739.6  
  
1009 8.0 50727.0 -0727.4  
1010 8.5 50728.0 -0751.7  
1011 9.5 50737.2 -0737.4  
1012 7.0 50739.7 -0715.1  
1013 8.5 50754.5 -0752.0  
1014 9.2 50759.7 -0715.4  
1015 9.5 50803.4 -0745.7  
1016 8.7 50834.5 -0706.5  
1017 9.4 50839.6 -0712.0  
1018 8.5 50905.6 -0735.9  
  
1019 9.4 50921.0 -0706.0  
1020 9.0 50927.0 -0729.2  
1021 8.0 50933.3 -0722.1  
1022 9.0 50940.4 -0747.5  
1023 9.4 50952.1 -0756.0  
1024 8.0 50954.5 -0706.5  
1025 9.4 51000.7 -0737.5  
1026 9.5 51010.3 -0758.8  
1027 9.5 51022.4 -0730.6  
1028 4.0 51024.4 -0700.2  
  
1029 9.5 51038.1 -0733.7  
1030 8.5 51045.3 -0744.4  
1031 9.5 51053.8 -0718.1  
1032 9.5 51121.3 -0744.3  
1033 8.0 51139.5 -0753.7  
1034 9.5 51143.7 -0704.1  
1035 9.6 51217.8 -0703.4  
1036 8.0 51220.0 -0730.4  
1037 9.5 51224.0 -0754.2  
1038 9.5 51224.8 -0756.7  
  
1039 9.5 51240.2 -0740.8  
1040 9.1 51243.4 -0749.7  
1041 8.4 51248.5 -0704.6  
1042 8.5 51249.2 -0716.2  
1043 8.5 51310.7 -0715.3  
1044 9.0 51311.4 -0722.4  
1045 9.5 51321.3 -0735.8  
1046 9.1 51322.0 -0750.0  
1047 9.0 51327.6 -0711.3  
1048 9.5 51355.9 -0727.0  
  
1049 8.0 51414.2 -0737.6  
1050 9.4 51419.4 -0701.9  
1051 8.7 51445.4 -0748.4  
1052 8.5 51508.1 -0736.1  
1053 9.5 51512.0 -0750.2  
1054 8.0 51535.3 -0744.6  
1055 10. 51601.0 -0749.7  
1056 9.5 51610.2 -0759.7  
1057 9.5 51612.6 -0709.8  
1058 9.2 51616.8 -0722.3  
  
1059 9.5 51623.0 -0712.5  
1060 9.5 51634.5 -0752.7  
1061 8.5 51636.4 -0702.3  
1062 9.7 51648.6 -0731.1  
1063 4.6 51652.9 -0736.4  
1064 9.3 51658.3 -0756.8  
1065 9.2 51731.4 -0701.4  
1066 10. 51735.0 -0759.4  
1067 9.5 51738.0 -0728.6  
1068 9.0 51743.5 -0750.5

1069 9.4 51809.3 -0744.6  
1070 9.2 51817.0 -0728.5  
1071 8.0 51819.4 -0749.9  
1072 10. 51846.0 -0730.3  
1073 10. 51848.1 -0736.1  
1074 9.5 51849.4 -0746.8  
1075 8.5 51857.5 -0705.7  
1076 9.0 51922.9 -0724.9  
1077 9.5 51924.0 -0752.6  
1078 9.2 51926.8 -0708.5  
  
1079 9.1 51959.3 -0756.3  
1080 9.5 52005.0 -0724.5  
1081 9.0 52027.6 -0703.5  
1082 9.5 52030.8 -0714.7  
1083 9.0 52035.0 -0700.8  
1084 8.7 52048.1 -0729.4  
1085 9.5 52049.0 -0747.0  
1086 9.0 52058.5 -0747.5  
1087 9.5 52120.5 -0746.3  
1088 8.6 52138.1 -0751.2  
  
1089 8.5 52205.6 -0754.3  
1090 9.5 52208.6 -0703.4  
1091 9.0 52220.4 -0741.8  
1092 6.8 52225.0 -0723.5  
1093 9.0 52241.4 -0741.4  
1094 9.6 52243.9 -0721.6  
1095 9.5 52249.0 -0713.0  
1096 9.0 52249.5 -0745.8  
1097 9.5 52300.9 -0721.2  
1098 9.5 52311.2 -0713.0  
  
1099 6.0 52320.2 -0733.8  
1100 9.5 52324.0 -0706.5  
1101 9.3 52350.0 -0726.2  
1102 9.8 52429.8 -0758.0  
1103 7.5 52439.7 -0710.0  
1104 9.5 52451.2 -0735.9  
1105 8.8 52451.8 -0749.8  
1106 5.0 52455.0 -0724.9  
1107 9.0 52458.7 -0756.3  
1108 9.4 52501.0 -0722.0  
  
1109 9.5 52512.2 -0751.9  
1110 9.5 52526.9 -0719.8  
1111 9.5 52532.5 -0747.9  
1112 9.5 52534.9 -0718.9  
1113 9.5 52539.7 -0739.1  
1114 9.0 52544.5 -0714.8  
1115 8.5 52616.4 -0711.7  
1116 9.5 52645.2 -0715.9  
1117 9.4 52647.1 -0710.1  
1118 9.6 52648.8 -0712.0  
  
1119 6.8 52700.0 -0701.8  
1120 9.5 52704.0 -0751.0  
1121 9.5 52715.1 -0719.3  
1122 9.0 52724.1 -0721.6  
1123 9.5 52738.3 -0731.0  
1124 6.8 52744.9 -0717.9  
1125 9.4 52754.7 -0747.7  
1126 9.7 52802.7 -0740.3  
1127 10. 52808.7 -0716.5  
1128 9.8 52817.1 -0714.9  
  
1129 10. 52834.6 -0700.6  
1130 9.0 52839.6 -0730.0  
1131 7.0 52906.1 -0730.0  
1132 8.5 52944.7 -0711.2  
1133 9.3 52945.1 -0758.7  
1134 9.0 52945.6 -0727.3  
1135 9.5 52957.7 -0709.4  
1136 9.5 52905.2 -0733.6  
1137 9.3 53017.8 -0716.6  
1138 9.3 53056.1 -0729.5  
  
1139 9.0 53107.6 -0750.4  
1140 9.5 53128.5 -0749.5  
1141 8.5 53133.1 -0729.0  
1142 5.0 53151.9 -0718.3  
1143 9.5 53221.4 -0741.5  
1144 9.3 53222.1 -0728.6  
1145 9.5 53232.1 -0738.4  
1146 9.5 53258.4 -0742.8  
1147 9.5 53305.9 -0719.5  
1148 7.0 53332.4 -0744.6  
  
1149 9.5 53416.1 -0727.2  
1150 9.0 53416.7 -0732.6  
1151 8.0 53421.5 -0701.3  
1152 9.3 53457.4 -0741.4  
1153 8.0 53541.0 -0724.7  
1154 9.4 53544.8 -0732.7  
1155 7.5 53558.4 -0732.9  
1156 8.2 53627.8 -0758.1  
1157 9.3 53629.8 -0710.6  
1158 9.0 53633.1 -0721.7

1159 9.4 53637.4 -0738.7  
1160 9.0 53718.8 -0733.4  
1161 9.0 53725.1 -0724.4  
1162 8.0 53733.6 -0749.0  
1163 10. 53822.4 -0737.7  
1164 9.5 53829.4 -0754.7  
1165 9.5 53851.9 -0715.4  
1166 9.0 53903.8 -0708.7  
1167 7.8 53930.6 -0700.7  
1168 9.5 53943.0 -0717.2  
  
1169 9.5 53956.6 -0700.7  
1170 9.0 54005.8 -0754.3  
1171 10. 54034.9 -0730.9  
1172 8.5 54041.2 -0726.6  
1173 9.0 54124.9 -0714.4  
1174 9.5 54127.5 -0720.6  
1175 9.5 54148.5 -0743.4  
1176 10. 54155.2 -0726.5  
1177 9.2 54203.9 -0758.7  
1178 9.4 54204.9 -0759.5  
  
1179 9.5 54212.0 -0705.9  
1180 9.4 54214.5 -0758.9  
1181 9.5 54228.0 -0749.1  
1182 8.5 54228.5 -0702.3  
1183 9.5 54259.5 -0744.3  
1184 9.3 54337.2 -0726.4  
1185 9.5 54348.6 -0701.0  
1186 9.2 54420.0 -0719.8  
1187 6.0 54422.3 -0734.0  
1188 9.3 54429.3 -0732.2  
  
1189 9.5 54442.0 -0731.7  
1190 8.3 54444.4 -0758.1  
1191 9.3 54449.3 -0731.3  
1192 8.0 54456.0 -0720.5  
1193 9.3 54514.6 -0746.4  
1194 8.7 54520.1 -0725.0  
1195 9.4 54551.2 -0739.1  
1196 9.5 54557.2 -0730.4  
1197 9.5 54557.7 -0727.7  
1198 9.5 54601.2 -0725.0  
  
1199 9.6 54601.5 -0753.9  
1200 9.7 54610.4 -0752.7  
1201 10. 54611.1 -0742.9  
1202 9.7 54612.5 -0755.0  
1203 9.5 54616.4 -0711.6  
1204 9.3 54619.5 -0719.8  
1205 9.5 54635.0 -0726.8  
1206 9.8 54646.1 -0743.4  
1207 9.8 54647.2 -0757.0  
1208 9.0 54650.3 -0703.5  
  
1209 9.5 54711.1 -0725.0  
1210 9.0 54745.2 -0725.0  
1211 9.0 54749.3 -0733.0  
1212 9.2 54755.2 -0727.6  
1213 9.2 54757.6 -0702.1  
1214 9.5 54803.8 -0709.7  
1215 9.5 54805.8 -0711.1  
1216 9.8 54808.5 -0755.2  
1217 9.7 54810.3 -0748.1  
1218 9.7 54820.7 -0743.9  
  
1219 9.4 54825.8 -0747.5  
1220 7.8 54835.5 -0741.5  
1221 8.3 54838.2 -0729.4  
1222 8.3 54847.5 -0740.6  
1223 9.3 54848.1 -0745.9  
1224 9.4 54903.2 -0728.9  
1225 9.5 54912.3 -0731.6  
1226 9.5 54914.8 -0734.7  
1227 9.0 54935.4 -0739.7  
1228 9.0 54929.4 -0757.5  
  
1229 9.7 54951.8 -0702.8  
1230 9.5 55013.9 -0757.4  
1231 9.3 55014.0 -0718.7  
1232 8.0 55045.5 -0741.0  
1233 9.8 55050.4 -0757.9  
1234 8.5 55051.1 -0723.6  
1235 9.6 55054.0 -0716.6  
1236 9.5 55120.5 -0747.1  
1237 9.2 55125.4 -0707.0  
1238 9.8 55135.2 -0733.3  
  
1239 9.5 55151.0 -0734.2  
1240 9.5 55158.2 -0739.4  
1241 8.5 55210.5 -0740.5  
1242 9.5 55216.3 -0754.9  
1243 9.0 55230.0 -0717.2  
1244 10. 55259.5 -0736.9  
1245 9.2 55303.8 -0705.2  
1246 7.5 55327.0 -0735.5  
1247 9.5 55328.0 -0734.6  
1248 7.0 55331.3 -0729.3

1249 8.5 55336.0 -0749.4  
1250 9.5 55344.8 -0749.4  
1251 9.1 55345.5 -0712.1  
1252 9.3 55402.4 -0732.9  
1253 9.0 55421.9 -0707.4  
1254 9.0 55424.7 -0745.7  
1255 9.5 55454.4 -0757.7  
1256 8.7 55500.9 -0755.0  
1257 7.0 55510.1 -0717.6  
1258 9.7 55545.5 -0759.2  
  
1259 9.3 55552.3 -0753.4  
1260 9.4 55608.7 -0701.1  
1261 9.0 55610.7 -0747.9  
1262 9.0 55612.7 -0701.9  
1263 9.5 55613.4 -0732.3  
1264 9.0 55616.3 -0749.3  
1265 9.5 55620.2 -0709.3  
1266 9.5 55633.2 -0724.7  
1267 9.5 55642.7 -0738.1  
1268 9.2 55700.4 -0733.6  
  
1269 9.5 55715.5 -0726.9  
1270 9.0 55731.7 -0748.4  
1271 9.2 55739.5 -0736.3  
1272 9.5 55746.5 -0735.3  
1273 9.0 55749.5 -0742.5  
1274 8.5 55802.4 -0756.8  
1275 8.5 55803.4 -0731.3  
1276 9.5 55818.0 -0712.6  
1277 9.5 55847.2 -0724.2  
1278 8.0 55904.1 -0718.4  
  
1279 7.2 55906.5 -0737.1  
1280 8.5 55908.3 -0705.0  
1281 9.7 55908.5 -0735.1  
1282 9.4 55914.2 -0729.8  
1283 9.5 55940.8 -0737.8  
1284 9.8 55949.0 -0728.5  
1285 9.2 55958.8 -0752.8  
1286 9.8 60003.5 -0755.0  
1287 9.3 60019.0 -0714.8  
1288 9.2 60020.8 -0704.5  
  
1289 9.5 60033.8 -0705.0  
1290 9.1 60040.8 -0751.4  
1291 8.5 60042.9 -0709.0  
1292 9.0 60049.9 -0720.2  
1293 9.5 60058.9 -0755.4  
1294 9.5 60110.0 -0756.6  
1295 9.3 60110.1 -0720.9  
1296 9.5 60114.0 -0735.3  
1297 9.3 60133.0 -0715.6  
1298 9.2 60142.1 -0718.3  
  
1299 6.8 60147.4 -0755.7  
1300 9.5 60200.5 -0744.6  
1301 9.7 60240.9 -0755.8  
1302 9.3 60251.9 -0710.7  
1303 9.5 60255.2 -0733.6  
1304 9.5 60302.3 -0737.4  
1305 8.5 60309.3 -0704.9  
1306 9.0 60309.6 -0742.4  
1307 9.5 60330.6 -0741.9  
1308 8.5 60336.9 -0708.0  
  
1309 9.8 60351.5 -0735.2  
1310 9.5 60355.9 -0721.1  
1311 9.5 60357.8 -0757.7  
1312 9.5 60358.8 -0748.8  
1313 7.0 60401.2 -0715.6  
1314 10. 60404.5 -0725.9  
1315 7.8 60410.7 -0740.4  
1316 9.8 60420.0 -0712.8  
1317 9.4 60420.8 -0720.2  
1318 8.0 60423.1 -0713.2  
  
1319 9.4 60424.4 -0720.9  
1320 9.5 60504.9 -0724.5  
1321 8.2 60517.8 -0717.8  
1322 8.7 60525.6 -0726.6  
1323 9.8 60538.4 -0759.7  
1324 9.5 60539.6 -0705.7  
1325 8.2 60550.7 -0716.0  
1326 9.5 60552.1 -0757.3  
1327 8.5 60608.8 -0725.0  
1328 9.0 60625.6 -0740.3  
  
1329 9.1 60628.8 -0728.8  
1330 9.1 60632.6 -0742.6  
1331 9.3 60634.7 -0746.8  
1332 6.5 60656.6 -0712.8  
1333 9.3 60703.4 -0733.2  
1334 9.5 60705.2 -0718.3  
1335 9.2 60720.9 -0755.8  
1336 9.3 60721.0 -0741.2  
1337 9.3 60731.5 -0754.1  
1338 8.7 60740.3 -0723.8

-07 1338 6h07m



-07 1339

6h07m

1339 9.5 60747.5 -0754.5  
1340 9.4 60754.6 -0742.1  
1341 8.2 60757.0 -0739.7  
1342 8.8 60812.9 -0756.7  
1343 9.3 60818.2 -0756.0  
1344 9.3 60826.5 -0739.0  
1345 8.8 60831.9 -0713.8  
1346 9.4 60850.7 -0749.9  
1347 9.1 60857.6 -0700.0  
1348 3.9 60858.1 -0742.6

1349 8.6 60931.5 -0716.9  
1350 9.5 60933.3 -0713.5  
1351 9.9 60942.8 -0717.2  
1352 8.5 61004.7 -0746.9  
1353 8.6 61021.3 -0724.5  
1354 9.2 61023.7 -0700.7  
1355 9.3 61027.3 -0752.4  
1356 9.5 61036.4 -0708.1  
1357 9.5 61038.5 -0735.5  
1358 8.7 61040.7 -0750.8

1359 9.0 61053.0 -0730.9  
1360 9.3 61053.2 -0757.4  
1361 9.1 61057.4 -0711.2  
1362 9.5 61116.8 -0725.6  
1363 8.1 61119.9 -0708.1  
1364 9.5 61133.5 -0734.0  
1365 8.6 61134.2 -0746.9  
1366 9.0 61142.3 -0753.2  
1367 9.5 61153.0 -0737.1  
1368 9.5 61155.6 -0702.9

1369 9.5 61157.6 -0703.5  
1370 9.0 61241.3 -0725.5  
1371 8.9 61242.0 -0738.6  
1372 9.5 61242.7 -0753.1  
1373 5.5 61244.1 -0745.5  
1374 9.8 61248.8 -0757.0  
1375 8.3 61254.5 -0711.3  
1376 9.0 61258.1 -0742.5  
1377 9.5 61302.2 -0711.8  
1378 7.5 61308.2 -0748.3

1379 9.5 61317.3 -0704.7  
1380 10. 61323.4 -0743.4  
1381 9.9 61325.9 -0744.2  
1382 9.9 61341.2 -0749.6  
1383 10. 61350.2 -0711.4  
1384 10. 61352.0 -0714.5  
1385 9.5 61354.1 -0745.4  
1386 10. 61403.2 -0701.5  
1387 9.4 61406.3 -0752.3  
1388 10. 6 431.0 -0735.9

1389 9.5 61432.5 -0717.2  
1390 9.5 61442.3 -0731.8  
1391 9.8 61455.1 -0715.4  
1392 9.3 61456.8 -0758.7  
1393 9.5 61459.2 -0755.4  
1394 9.2 61513.1 -0715.6  
1395 9.5 61517.9 -0733.1  
1396 9.3 61531.6 -0716.5  
1397 9.8 61535.4 -0753.5  
1398 9.0 61535.4 -0709.4

1399 8.5 61536.0 -0733.9  
1400 9.4 61552.2 -0705.9  
1401 8.8 61602.8 -0752.4  
1402 9.5 61616.7 -0723.6  
1403 8.7 61632.8 -0747.5  
1404 9.5 61641.5 -0737.7  
1405 9.1 61649.2 -0746.0  
1406 9.8 61658.7 -0735.0  
1407 10. 61726.2 -0703.7  
1408 9.5 61726.3 -0728.0

1409 9.1 61732.6 -0738.0  
1410 9.5 61736.7 -0745.2  
1411 9.3 61741.6 -0754.2  
1412 9.1 61750.0 -0733.8  
1413 8.7 61751.2 -0731.6  
1414 9.4 61751.2 -0701.6  
1415 9.3 61802.3 -0719.9  
1416 9.7 61810.7 -0725.3  
1417 10. 61819.4 -0700.4  
1418 9.0 61820.3 -0728.2

1419 9.5 61854.4 -0747.8  
1420 9.5 61858.7 -0742.6  
1421 9.2 61859.5 -0714.6  
1422 6.8 61859.8 -0748.7  
1423 9.0 61903.7 -0702.5  
1424 7.8 61933.4 -0716.8  
1425 9.8 61929.7 -0719.8  
1426 9.7 61934.8 -0732.2  
1427 9.6 61941.6 -0752.8  
1428 9.0 61943.4 -0725.4

1429 6.7 61944.4 -0725.5  
1430 9.5 62002.0 -0734.9  
1431 9.7 62013.1 -0710.3  
1432 9.5 62020.6 -0743.5  
1433 8.4 62042.2 -0753.7  
1434 8.5 62107.9 -0725.0  
1435 9.5 62122.8 -0755.0  
1436 9.0 62131.1 -0711.4  
1437 9.5 62131.5 -0733.0  
1438 8.2 62233.3 -0716.0

1439 9.3 62245.8 -0724.5  
1440 8.5 62310.6 -0738.4  
1441 9.8 62311.8 -0710.8  
1442 9.5 62316.8 -0705.8  
1443 9.5 62347.6 -0718.7  
1444 9.0 62355.9 -0724.5  
1445 9.5 62359.8 -0714.5  
1446 9.1 62402.1 -0737.9  
1447 9.5 62428.0 -0732.7  
1448 9.6 62428.9 -0755.3

1449 9.0 62431.6 -0755.1  
1450 9.4 62455.9 -0710.4  
1451 9.6 62456.7 -0753.5  
1452 9.5 62500.5 -0730.2  
1453 9.0 62505.9 -0756.4  
1454 9.5 62509.3 -0749.9  
1455 8.3 62510.5 -0712.0  
1456 7.5 62514.4 -0718.3  
1457 9.8 62514.7 -0700.7  
1458 9.4 62524.3 -0729.7

1459 9.7 62536.1 -0743.6  
1460 10. 62539.0 -0723.9  
1461 9.7 62539.0 -0740.2  
1462 8.4 62543.2 -0724.2  
1463 8.6 62554.8 -0741.2  
1464 9.5 62608.3 -0716.5  
1465 9.8 62610.9 -0709.8  
1466 9.4 62614.3 -0718.2  
1467 9.4 62622.8 -0746.7  
1468 9.5 62632.1 -0731.0

1469 9.1 62638.6 -0737.0  
1470 9.3 62640.2 -0758.6  
1471 8.0 62640.5 -0705.8  
1472 9.5 62648.2 -0712.2  
1473 9.3 62652.6 -0716.4  
1474 8.5 62728.4 -0750.8  
1475 9.8 62731.4 -0709.7  
1476 9.8 62757.3 -0705.7  
1477 9.0 62811.2 -0758.4  
1478 9.2 62819.5 -0727.1

1479 8.5 62825.9 -0715.8  
1480 9.5 62840.2 -0737.6  
1481 10. 62849.1 -0707.6  
1482 9.2 62849.8 -0713.1  
1483 9.1 62858.3 -0742.2  
1484 9.4 62902.4 -0750.3  
1485 9.7 62910.4 -0726.1  
1486 10. 62915.7 -0720.2  
1487 9.2 62931.7 -0706.3  
1488 8.6 62936.0 -0710.6

1489 9.4 62939.3 -0748.6  
1490 9.5 62946.4 -0700.2  
1491 9.4 63009.0 -0729.6  
1492 9.6 63010.1 -0713.8  
1493 9.3 63030.9 -0753.2  
1494 9.2 63032.2 -0756.9  
1495 8.8 63100.8 -0708.2  
1496 9.8 63101.9 -0702.0  
1497 8.6 63112.9 -0712.3  
1498 9.3 63116.2 -0740.6

1499 9.3 63119.5 -0726.2  
1500 9.5 63143.2 -0743.6  
1501 9.5 63146.6 -0701.2  
1502 9.5 63152.9 -0712.9  
1503 9.8 63207.9 -0754.2  
1504 9.8 63215.4 -0728.0  
1505 9.8 63216.0 -0730.3  
1506 9.3 63220.4 -0752.4  
1507 9.2 63237.1 -0701.9  
1508 9.3 63238.8 -0748.8

1509 9.0 63239.4 -0754.5  
1510 9.3 63242.0 -0733.0  
1511 9.5 63249.5 -0733.9  
1512 9.6 63251.3 -0757.7  
1513 9.8 63258.7 -0705.6  
1514 9.6 63307.2 -0716.0  
1515 9.5 63321.9 -0709.6  
1516 8.3 63327.8 -0717.2  
1517 9.4 63328.0 -0714.4  
1518 9.3 63341.5 -0744.9

1519 8.7 63350.2 -0704.1  
1520 9.4 63353.0 -0741.0  
1521 9.5 63355.7 -0725.5  
1522 9.5 63400.0 -0759.1  
1523 7.1 63402.0 -0726.5  
1524 8.2 63411.2 -0751.8  
1525 9.1 63417.8 -0746.7  
1526 7.2 63421.6 -0702.3  
1527 9.8 63427.9 -0742.2  
1528 9.4 63433.4 -0724.3

1529 9.5 63433.9 -0726.4  
1530 8.5 63440.1 -0750.2  
1531 9.4 63442.4 -0757.2  
1532 9.8 63509.2 -0733.6  
1533 9.8 63521.0 -0726.9  
1534 9.2 63549.7 -0732.9  
1535 9.0 63608.2 -0754.5  
1536 10. 63644.9 -0758.4  
1537 9.4 63651.3 -0712.8  
1538 9.5 63657.4 -0711.0

1539 9.2 63659.6 -0716.2  
1540 8.8 63700.1 -0728.7  
1541 9.3 63705.3 -0758.9  
1542 9.5 63715.0 -0746.8  
1543 9.5 63735.1 -0736.9  
1544 9.9 63738.9 -0758.6  
1545 9.7 63741.7 -0720.0  
1546 9.5 63752.4 -0725.7  
1547 9.7 63808.1 -0750.7  
1548 9.3 63808.8 -0745.3

1549 9.5 63844.0 -0745.8  
1550 9.4 63852.7 -0734.0  
1551 7.3 63856.9 -0711.4  
1552 9.7 63914.7 -0717.6  
1553 9.8 63914.9 -0712.4  
1554 9.5 63921.7 -0734.0  
1555 10. 63931.2 -0700.0  
1556 9.8 63938.0 -0733.9  
1557 9.0 63938.5 -0746.5  
1558 9.6 63942.1 -0706.9

1559 9.4 63942.5 -0716.5  
1560 9.9 63951.0 -0712.6  
1561 9.1 63951.7 -0710.2  
1562 9.4 64014.8 -0719.6  
1563 10. 64022.7 -0702.1  
1564 9.1 64031.0 -0756.2  
1565 9.7 64050.7 -0749.0  
1566 9.8 64052.2 -0712.9  
1567 7.0 64121.8 -0735.7  
1568 8.5 64127.0 -0757.3

1569 8.6 64131.4 -0700.4  
1570 9.0 64131.8 -0738.5  
1571 8.8 64134.3 -0716.0  
1572 8.8 64142.6 -0707.5  
1573 9.3 64149.5 -0725.0  
1574 9.5 64149.9 -0702.0  
1575 9.0 64215.4 -0752.3  
1576 8.7 64220.4 -0733.7  
1577 9.5 64227.0 -0719.2  
1578 7.2 64235.1 -0715.1

1579 9.5 64242.1 -0724.4  
1580 9.7 64242.3 -0747.8  
1581 10. 64257.0 -0757.2  
1582 9.6 64259.4 -0749.4  
1583 9.3 64304.5 -0723.4  
1584 8.8 64308.8 -0738.0  
1585 9.3 64316.2 -0715.3  
1586 9.8 64319.4 -0752.3  
1587 9.3 64325.0 -0702.9  
1588 9.6 64328.6 -0713.8

1589 9.7 64331.0 -0715.6  
1590 9.7 64331.2 -0701.2  
1591 9.1 64333.4 -0708.8  
1592 6.8 64343.4 -0752.7  
1593 9.5 64351.1 -0733.4  
1594 9.0 64357.6 -0746.2  
1595 9.4 64401.3 -0701.9  
1596 9.8 64408.3 -0758.9  
1597 10. 64408.4 -0707.6  
1598 9.7 64425.1 -0720.1

1599 9.1 64427.0 -0702.2  
1600 9.8 64435.9 -0747.7  
1601 9.7 64440.0 -0707.2  
1602 9.1 64444.7 -0706.7  
1603 9.1 64454.0 -0706.7  
1604 9.3 64456.4 -0706.7  
1605 9.4 64513.0 -0713.2  
1606 9.6 64516.1 -0701.1  
1607 9.8 64522.0 -0754.2  
1608 9.7 64523.3 -0706.2

-07 1698

6h55m

1609 9.7 64534.4 -0733.5  
1610 9.5 64548.1 -0709.4  
1611 9.5 64554.8 -0715.6  
1612 9.7 64555.9 -0733.9  
1613 9.4 64601.1 -0704.0  
1614 7.8 64608.5 -0735.5  
1615 9.4 64610.7 -0732.2  
1616 9.3 64623.0 -0731.6  
1617 9.7 64637.1 -0753.6  
1618 9.8 64641.6 -0713.7

1619 9.1 64642.3 -0745.3  
1620 8.8 64656.7 -0755.0  
1621 9.6 64707.0 -0731.0  
1622 9.2 64711.5 -0721.1  
1623 9.8 64713.0 -0725.1  
1624 8.3 64720.3 -0713.3  
1625 9.2 64751.4 -0701.8  
1626 9.2 64737.9 -0748.1  
1627 9.1 64752.6 -0743.0  
1628 8.6 64758.5 -0739.4

1629 9.3 64811.8 -0714.9  
1630 9.8 64821.0 -0734.2  
1631 9.8 64845.5 -0759.5  
1632 9.8 64858.4 -0725.3  
1633 9.2 64908.8 -0749.5  
1634 9.7 64927.0 -0757.6  
1635 9.7 64928.5 -0705.1  
1636 9.0 64952.7 -0759.7  
1637 9.8 64954.1 -0705.1  
1638 9.7 64957.8 -0717.2

1639 9.4 64941.0 -0729.8  
1640 7.6 64941.1 -0759.7  
1641 9.7 64948.7 -0702.4  
1642 6.4 65001.2 -0759.8  
1643 9.0 65003.2 -0738.2  
1644 8.7 65021.6 -0705.7  
1645 9.8 65023.5 -0718.5  
1646 9.5 65028.0 -0737.6  
1647 9.0 65029.3 -0715.0  
1648 9.7 65032.5 -0755.3

1649 8.8 65036.4 -0736.6  
1650 9.7 65038.7 -0711.4  
1651 9.9 65040.8 -0725.4  
1652 9.4 65042.2 -0716.0  
1653 9.2 65053.7 -0701.0  
1654 9.8 65100.8 -0750.5  
1655 9.1 65107.4 -0739.3  
1656 9.2 65117.1 -0745.0  
1657 8.7 65117.1 -0718.6  
1658 9.8 65123.8 -0753.1

1659 9.5 65133.7 -0757.4  
1660 9.4 65135.7 -0719.5  
1661 9.0 65137.0 -0748.1  
1662 9.6 65137.5 -0721.6  
1663 9.4 65148.7 -0732.3  
1664 8.9 65204.4 -0700.8  
1665 9.1 65206.8 -0759.0  
1666 9.6 65218.0 -0746.9  
1667 8.7 65218.1 -0704.5  
1668 8.2 65220.0 -0715.6

1669 9.4 65221.2 -0747.3  
1670 9.8 65223.6 -0720.8  
1671 9.3 65223.8 -0736.3  
1672 9.0 65226.2 -0725.1  
1673 9.1 65226.8 -0707.7  
1674 9.1 65236.3 -0756.6  
1675 9.2 65236.3 -0743.3  
1676 10. 65241.9 -0704.0  
1677 10. 65242.1 -0700.0  
1678 10. 65249.2 -0719.9

1679 9.8 65250.1 -0707.7  
1680 9.6 65302.0 -0719.9  
1681 9.5 65305.0 -0721.2  
1682 9.8 65306.9 -0703.5  
1683 9.6 65308.1 -0735.8  
1684 9.3 65312.0 -0756.4  
1685 9.2 65319.5 -0724.0  
1686 9.8 65347.3 -0755.8  
1687 8.5 65417.4 -0731.2  
1688 9.5 65425.3 -0720.8

1689 9.1 65426.4 -0732.3  
1690 9.3 65429.7 -0736.1  
1691 9.4 65430.4 -0721.1  
1692 9.4 65450.4 -0728.7  
1693 9.8 65454.0 -0757.0  
1694 9.0 65459.2 -0729.4  
1695 8.5 65523.1 -0739.5  
1696 9.5 65526.4 -0752.5  
1697 9.5 65530.4 -0753.2  
1698 9.3 65537.6 -0747.1



-07 1699 6h55m

1699 9.3 65540.4 -0743.1  
1700 9.0 65543.8 -0703.2  
1701 9.0 65544.0 -0734.1  
1702 9.5 65547.4 -0727.5  
1703 10. 65552.0 -0707.9  
1704 8.8 65553.7 -0757.5  
1705 9.0 65605.3 -0715.7  
1706 8.9 65606.5 -0722.0  
1707 9.3 65613.9 -0725.7  
1708 10. 65621.7 -0732.3  
  
1709 9.3 65623.4 -0740.0  
1710 9.8 65626.9 -0735.3  
1711 9.3 65633.4 -0737.2  
1712 8.8 65638.1 -0738.2  
1713 9.5 65641.4 -0727.4  
1714 10. 65648.7 -0749.4  
1715 9.7 65703.4 -0733.8  
1716 9.0 65710.7 -0740.4  
1717 9.4 65719.9 -0713.7  
1718 9.5 65720.1 -0740.1  
  
1719 8.8 65731.1 -0703.9  
1720 10. 65733.6 -0736.3  
1721 9.8 65751.7 -0704.4  
1722 9.8 65755.5 -0707.0  
1723 9.1 65755.6 -0725.0  
1724 9.7 65757.1 -0735.6  
1725 9.1 65803.1 -0726.5  
1726 9.0 65807.7 -0729.2  
1727 10. 65816.0 -0738.7  
1728 9.0 65816.8 -0704.5  
  
1729 9.0 65820.8 -0704.6  
1730 9.4 65821.8 -0724.0  
1731 7.2 65823.2 -0755.0  
1732 9.4 65828.4 -0749.1  
1733 9.5 65844.5 -0756.2  
1734 9.8 65855.5 -0710.8  
1735 9.4 65858.7 -0736.9  
1736 9.5 65902.7 -0731.4  
1737 9.6 65906.9 -0702.4  
1738 9.3 65919.6 -0705.2  
  
1739 9.5 65943.3 -0756.0  
1740 9.1 65947.8 -0705.3  
1741 8.9 65949.3 -0702.1  
1742 8.3 65954.8 -0720.3  
1743 9.5 65955.6 -0710.7  
1744 9.1 65959.3 -0712.7  
1745 8.8 70000.0 -0731.3  
1746 9.1 70010.6 -0720.9  
1747 9.8 70016.5 -0733.8  
1748 8.8 70029.7 -0734.9  
  
1749 9.0 70032.2 -0723.1  
1750 9.5 70033.1 -0702.2  
1751 8.9 70035.3 -0724.8  
1752 9.5 70037.2 -0701.0  
1753 9.4 70040.7 -0741.4  
1754 9.0 70044.3 -0745.4  
1755 9.4 70044.6 -0727.9  
1756 8.8 70103.6 -0747.6  
1757 9.4 70104.9 -0743.0  
1758 9.8 70112.0 -0748.8  
  
1759 9.7 70114.4 -0731.3  
1760 9.6 70123.4 -0744.4  
1761 9.1 70127.7 -0718.8  
1762 9.9 70132.1 -0701.5  
1763 9.3 70136.1 -0746.9  
1764 9.2 70139.6 -0714.2  
1765 9.8 70148.6 -0703.2  
1766 10. 70153.8 -0736.3  
1767 9.7 70155.2 -0715.1  
1768 8.3 70200.7 -0742.6  
  
1769 9.8 70206.1 -0701.1  
1770 8.5 70206.7 -0732.5  
1771 9.2 70207.2 -0709.6  
1772 9.3 70223.7 -0734.0  
1773 9.3 70227.4 -0728.7  
1774 9.5 70227.6 -0746.4  
1775 9.5 70240.0 -0726.9  
1776 9.5 70249.9 -0750.0  
1777 9.5 70252.0 -0741.8  
1778 9.7 70302.0 -0730.7  
  
1779 9.1 70302.6 -0750.3  
1780 9.7 70322.8 -0729.4  
1781 9.6 70324.1 -0711.5  
1782 9.2 70330.1 -0740.1  
1783 7.7 70332.4 -0737.9  
1784 9.6 70347.1 -0734.4  
1785 9.8 70353.8 -0751.0  
1786 9.8 70353.8 -0747.8  
1787 10. 70354.2 -0722.5  
1788 9.4 70356.8 -0744.7

1789 9.5 70408.9 -0727.2  
1790 7.8 70410.2 -0727.7  
1791 9.3 70417.5 -0757.0  
1792 9.1 70421.5 -0756.8  
1793 9.6 70427.0 -0713.8  
1794 10. 70434.1 -0700.6  
1795 9.8 70447.9 -0750.5  
1796 10. 70448.4 -0704.7  
1797 8.9 70452.0 -0723.8  
1798 10. 70454.1 -0758.1  
  
1799 9.8 70507.4 -0706.2  
1800 10. 70518.5 -0739.6  
1801 9.4 70525.7 -0757.9  
1802 7.9 70528.5 -0758.3  
1803 10. 70538.4 -0741.4  
1804 9.9 70542.3 -0744.1  
1805 9.9 70542.4 -0738.2  
1806 10. 70551.2 -0757.5  
1807 9.6 70554.0 -0759.1  
1808 8.5 70556.7 -0741.0  
  
1809 9.4 70559.7 -0740.3  
1810 8.4 70559.9 -0752.1  
1811 8.8 70617.6 -0721.4  
1812 9.4 70620.1 -0746.3  
1813 9.3 70624.3 -0741.3  
1814 9.2 70638.4 -0750.4  
1815 9.5 70642.9 -0725.3  
1816 9.4 70649.7 -0744.5  
1817 9.3 70649.8 -0724.7  
1818 9.8 70655.7 -0753.3  
  
1819 9.2 70656.0 -0704.5  
1820 9.7 70656.2 -0727.4  
1821 8.4 70716.9 -0716.2  
1822 8.7 70719.1 -0707.8  
1823 8.8 70724.8 -0720.0  
1824 9.5 70742.0 -0738.7  
1825 9.2 70744.5 -0757.2  
1826 9.4 70748.3 -0757.3  
1827 9.4 70751.5 -0717.2  
1828 8.8 70754.1 -0704.7  
  
1829 7.8 70757.8 -0725.8  
1830 9.5 70815.4 -0742.6  
1831 9.8 70821.0 -0741.7  
1832 9.5 70825.0 -0732.8  
1833 9.3 70826.5 -0714.4  
1834 9.5 70826.7 -0737.8  
1835 8.9 70830.8 -0713.9  
1836 9.8 70832.5 -0710.8  
1837 9.5 70834.7 -0713.0  
1838 9.8 70840.6 -0742.5  
  
1839 9.7 70844.5 -0711.6  
1840 9.3 70851.5 -0712.8  
1841 9.5 70856.9 -0732.4  
1842 9.7 70901.8 -0722.8  
1843 9.2 70911.8 -0757.1  
1844 9.0 70912.2 -0738.0  
1845 9.3 70922.1 -0704.3  
1846 9.8 70925.4 -0746.5  
1847 9.8 70941.8 -0751.9  
1848 9.2 70943.2 -0703.5  
  
1849 9.9 70949.5 -0704.6  
1850 9.4 70953.1 -0700.0  
1851 7.6 70956.3 -0716.2  
1852 10. 71002.6 -0747.8  
1853 9.7 71006.7 -0741.3  
1854 9.3 71009.4 -0754.1  
1855 8.8 71011.1 -0759.8  
1856 10. 71011.9 -0707.7  
1857 9.7 71013.8 -0701.1  
1858 9.6 71033.9 -0705.6  
  
1859 9.8 71033.9 -0743.8  
1860 10. 71038.8 -0755.9  
1861 9.5 71045.3 -0713.2  
1862 10. 71048.4 -0701.4  
1863 9.5 71050.4 -0755.6  
1864 9.6 71100.7 -0752.1  
1865 9.4 71113.7 -0746.7  
1866 9.7 71117.6 -0730.1  
1867 9.8 71119.6 -0748.8  
1868 9.5 71122.8 -0707.2  
  
1869 9.4 71127.6 -0720.9  
1870 8.9 71130.7 -0734.3  
1871 9.8 71131.5 -0742.3  
1872 8.9 71137.0 -0711.1  
1873 7.8 71137.1 -0719.3  
1874 9.3 71142.3 -0731.8  
1875 9.4 71144.1 -0742.3  
1876 8.9 71151.2 -0715.8  
1877 9.5 71152.8 -0717.6  
1878 9.5 71153.4 -0721.3

1879 8.5 71153.4 -0743.7  
1880 9.2 71205.4 -0700.9  
1881 9.8 71206.0 -0735.3  
1882 9.8 71209.9 -0710.9  
1883 9.3 71221.9 -0753.6  
1884 9.4 71222.2 -0716.0  
1885 8.8 71222.9 -0728.1  
1886 9.5 71223.0 -0737.6  
1887 9.8 71224.9 -0724.4  
1888 9.6 71247.4 -0735.6  
  
1889 8.8 71256.2 -0737.7  
1890 9.8 71257.0 -0716.5  
1891 8.6 71259.3 -0725.8  
1892 9.8 71301.1 -0711.3  
1893 10. 71310.1 -0743.9  
1894 10. 71311.4 -0748.1  
1895 9.8 71313.2 -0714.2  
1896 9.9 71322.6 -0752.3  
1897 9.6 71335.5 -0718.1  
1898 9.5 71337.4 -0716.6  
  
1899 9.1 71346.6 -0712.2  
1900 9.0 71352.8 -0716.1  
1901 9.7 71353.7 -0717.2  
1902 9.5 71354.9 -0733.3  
1903 9.3 71356.2 -0742.1  
1904 9.9 71357.9 -0753.4  
1905 8.9 71359.4 -0719.8  
1906 10. 71408.7 -0701.2  
1907 10. 71419.0 -0740.1  
1908 8.8 71421.1 -0706.6  
  
1909 9.4 71423.4 -0719.6  
1910 9.8 71425.2 -0736.8  
1911 8.8 71431.2 -0746.0  
1912 9.8 71450.3 -0706.1  
1913 9.9 71500.2 -0706.2  
1914 9.4 71501.9 -0753.0  
1915 9.4 71512.7 -0752.9  
1916 9.3 71517.5 -0706.3  
1917 9.3 71523.9 -0746.7  
1918 9.7 71525.5 -0728.5  
  
1919 9.5 71531.6 -0750.2  
1920 9.6 71544.1 -0733.9  
1921 9.4 71544.1 -0736.3  
1922 9.2 71552.2 -0741.3  
1923 9.4 71601.7 -0723.9  
1924 9.3 71607.7 -0735.5  
1925 9.4 71614.2 -0731.5  
1926 10. 71621.1 -0705.6  
1927 9.7 71639.7 -0749.0  
1928 9.5 71646.2 -0711.1  
  
1929 9.5 71647.5 -0756.0  
1930 9.2 71648.3 -0741.3  
1931 9.5 71650.4 -0712.5  
1932 8.8 71651.9 -0741.7  
1933 9.5 71653.5 -0716.9  
1934 9.3 71704.1 -0724.6  
1935 9.7 71710.9 -0714.8  
1936 9.1 71714.9 -0734.8  
1937 9.4 71724.2 -0734.7  
1938 10. 71737.8 -0707.7  
  
1939 9.7 71747.6 -0753.1  
1940 8.3 71749.6 -0751.4  
1941 8.1 71754.3 -0719.8  
1942 9.8 71754.6 -0711.5  
1943 9.5 71759.1 -0728.2  
1944 9.8 71807.4 -0727.3  
1945 10. 71815.3 -0759.8  
1946 9.8 71816.0 -0736.7  
1947 9.5 71823.6 -0716.9  
1948 9.5 71825.0 -0736.7  
  
1949 8.7 71826.8 -0727.5  
1950 9.8 71828.4 -0755.3  
1951 9.3 71830.4 -0758.8  
1952 9.6 71832.1 -0705.1  
1953 9.9 71837.0 -0740.7  
1954 9.0 71840.8 -0706.3  
1955 9.1 71845.2 -0740.4  
1956 9.6 71847.0 -0719.0  
1957 9.5 71848.4 -0701.7  
1958 9.5 71853.2 -0749.2  
  
1959 9.5 71859.8 -0728.5  
1960 9.6 71902.2 -0706.0  
1961 10. 71914.7 -0721.5  
1962 9.2 71915.4 -0733.6  
1963 7.5 71922.4 -0705.3  
1964 9.8 71929.7 -0713.8  
1965 9.5 71937.6 -0749.1  
1966 9.2 71956.3 -0716.2  
1967 9.4 71958.1 -0705.1  
1968 8.4 71959.3 -0721.0

1969 8.7 72001.5 -0740.9  
1970 9.2 72002.5 -0728.9  
1971 8.8 72005.0 -0757.2  
1972 9.7 72019.9 -0758.9  
1973 9.3 72032.7 -0720.1  
1974 9.5 72041.8 -0757.7  
1975 9.7 72042.0 -0710.7  
1976 8.8 72044.4 -0743.3  
1977 9.3 72045.1 -0713.3  
1978 9.5 72057.5 -0755.8  
  
1979 9.3 72058.9 -0725.7  
1980 9.8 72059.4 -0746.5  
1981 9.0 72107.7 -0715.3  
1982 9.2 72118.2 -0758.6  
1983 9.2 72130.7 -0723.6  
1984 9.5 72132.0 -0730.5  
1985 9.1 72133.0 -0700.1  
1986 9.7 72134.0 -0733.7  
1987 10. 72141.1 -0734.2  
1988 9.5 72144.6 -0714.0  
  
1989 8.7 72148.8 -0757.8  
1990 10. 72153.1 -0707.7  
1991 10. 72155.3 -0708.0  
1992 9.6 72200.1 -0707.4  
1993 9.7 72203.2 -0739.8  
1994 9.3 72203.8 -0724.8  
1995 8.5 72206.9 -0743.7  
1996 5.9 72223.2 -0715.6  
1997 10. 72235.0 -0755.0  
1998 9.8 72243.4 -0720.7  
  
1999 10. 72243.5 -0742.2  
2000 10. 72246.8 -0710.7  
2001 8.7 72250.8 -0734.9  
2002 8.7 72257.8 -0726.9  
2003 9.4 72304.0 -0738.7  
2004 9.3 72307.4 -0726.5  
2005 9.5 72309.6 -0757.0  
2006 10. 72315.7 -0714.5  
2007 8.3 72335.5 -0744.8  
2008 9.8 72344.0 -0738.7  
  
2009 9.4 72348.3 -0731.5  
2010 9.1 72351.5 -0730.9  
2011 9.8 72410.9 -0702.8  
2012 8.5 72413.1 -0727.5  
2013 9.4 72413.9 -0719.9  
2014 10. 72415.6 -0706.1  
2015 9.7 72417.3 -0748.7  
2016 10. 72427.4 -0735.5  
2017 8.2 72430.5 -0750.5  
2018 9.3 72440.9 -0714.1  
  
2019 9.2 72451.4 -0730.0  
2020 9.5 72453.2 -0722.7  
2021 9.3 72455.1 -0745.7  
2022 9.7 72458.1 -0711.8  
2023 9.2 72459.8 -0723.7  
2024 9.8 72503.2 -0702.9  
2025 10. 72504.9 -0701.1  
2026 9.2 72506.9 -0732.7  
2027 9.5 72514.5 -0720.0  
2028 8.9 72526.8 -0724.2  
  
2029 8.4 72532.7 -0747.3  
2030 9.5 72532.9 -0745.4  
2031 9.7 72538.4 -0738.5  
2032 9.5 72539.4 -0746.9  
2033 9.8 72544.5 -0710.3  
2034 9.5 72549.1 -0723.2  
2035 9.3 72551.2 -0733.5  
2036 8.4 72551.8 -0738.1  
2037 9.3 72623.4 -0727.0  
2038 9.8 72643.3 -0707.2  
  
2039 9.4 72646.6 -0718.9  
2040 9.5 72658.2 -0757.6  
2041 7.5 72700.5 -0719.5  
2042 9.6 72703.9 -0756.9  
2043 9.3 72716.2 -0701.3  
2044 9.3 72728.5 -0737.1  
2045 9.1 72733.5 -0706.1  
2046 9.7 72741.4 -0712.6  
2047 9.1 72747.1 -0734.7  
2048 9.3 72749.7 -0713.9  
  
2049 9.5 72751.5 -0748.6  
2050 9.8 72752.2 -0724.7  
2051 9.4 72758.1 -0756.4  
2052 9.9 72807.1 -0706.2  
2053 10. 72812.7 -0723.9  
2054 9.8 72820.1 -0752.0  
2055 9.0 72826.1 -0728.2  
2056 9.2 72831.1 -0738.7  
2057 8.4 72846.6 -0755.1  
2058 9.8 72847.6 -0731.5

-07 2058 7h28m



-07 2059 7h28m

2059 9.5 72851.8 -0745.1  
2060 8.9 72853.3 -0742.0  
2061 9.2 72857.0 -0706.2  
2062 9.8 72900.5 -0705.8  
2063 9.8 72912.6 -0742.9  
2064 8.7 72914.3 -0742.7  
2065 6.3 72916.1 -0759.5  
2066 9.7 72919.3 -0710.8  
2067 9.1 72921.5 -0715.5  
2068 9.1 72922.9 -0703.2

2069 10.1 72932.7 -0716.0  
2070 9.6 72935.3 -0731.1  
2071 9.5 72944.9 -0731.6  
2072 9.2 72945.1 -0710.9  
2073 9.4 72947.3 -0748.2  
2074 9.6 72958.4 -0756.4  
2075 9.8 73008.2 -0725.3  
2076 9.4 73017.5 -0717.1  
2077 9.4 73019.4 -0723.1  
2078 9.8 73024.7 -0703.2

2079 9.3 73025.8 -0704.2  
2080 10.1 73032.3 -0731.6  
2081 9.7 73033.8 -0740.4  
2082 7.1 73040.9 -0724.4  
2083 8.7 73042.3 -0707.7  
2084 9.4 73045.7 -0710.5  
2085 8.9 73052.1 -0700.2  
2086 8.5 73052.3 -0738.2  
2087 9.9 73054.0 -0722.8  
2088 7.1 73100.6 -0748.0

2089 9.7 73117.7 -0712.3  
2090 9.7 73121.0 -0756.6  
2091 8.9 73128.5 -0718.1  
2092 9.7 73131.5 -0707.7  
2093 10.1 73146.3 -0704.7  
2094 9.8 73151.2 -0702.8  
2095 9.8 73156.8 -0758.2  
2096 10.1 73203.4 -0736.6  
2097 10.1 73204.1 -0738.1  
2098 9.8 73208.8 -0722.1

2099 9.3 73213.5 -0757.0  
2100 8.9 73220.1 -0717.1  
2101 9.5 73224.5 -0715.8  
2102 9.3 73232.8 -0752.5  
2103 9.7 73239.8 -0754.5  
2104 9.7 73240.3 -0745.8  
2105 9.4 73242.0 -0757.3  
2106 9.3 73247.3 -0705.1  
2107 8.6 73254.2 -0711.5  
2108 9.6 73259.7 -0732.9

2109 9.7 73304.3 -0711.5  
2110 9.8 73306.9 -0700.4  
2111 9.8 73315.9 -0721.2  
2112 9.8 73316.3 -0702.2  
2113 9.5 73319.3 -0708.4  
2114 9.7 73321.2 -0723.8  
2115 9.6 73327.7 -0743.9  
2116 9.3 73329.3 -0751.6  
2117 9.2 73332.1 -0753.5  
2118 6.3 73334.5 -0751.3

2119 9.4 73336.1 -0709.4  
2120 9.7 73346.6 -0752.5  
2121 8.9 73355.7 -0759.3  
2122 9.5 73403.4 -0749.7  
2123 10.1 73404.8 -0742.1  
2124 9.5 73408.2 -0735.2  
2125 10.1 73417.5 -0701.2  
2126 8.3 73427.1 -0730.6  
2127 9.3 73436.5 -0707.6  
2128 9.8 73441.9 -0700.3

2129 9.3 73442.1 -0737.4  
2130 9.4 73444.3 -0700.3  
2131 9.8 73457.4 -0735.7  
2132 9.3 73501.0 -0716.7  
2133 9.5 73509.1 -0721.8  
2134 8.3 73508.8 -0700.3  
2135 9.5 73516.2 -0748.5  
2136 8.8 73522.1 -0734.5  
2137 8.8 73524.3 -0710.8  
2138 9.2 73524.4 -0754.7

2139 9.3 73537.3 -0719.2  
2140 9.1 73537.8 -0736.4  
2141 9.0 73541.1 -0733.7  
2142 8.8 73542.1 -0749.5  
2143 9.9 73542.8 -0728.7  
2144 9.1 73552.4 -0710.9  
2145 9.4 73558.2 -0721.3  
2146 9.8 73559.6 -0708.9  
2147 9.7 73601.6 -0713.8  
2148 8.9 73609.8 -0753.4

2149 9.6 73617.6 -0709.1  
2150 8.8 73619.1 -0705.5  
2151 9.2 73619.8 -0757.0  
2152 9.7 73624.7 -0717.7  
2153 10.1 73627.9 -0700.0  
2154 10.1 73632.7 -0720.0  
2155 9.4 73647.3 -0753.6  
2156 10.1 73704.5 -0726.4  
2157 8.9 73705.3 -0735.0  
2158 9.8 73706.2 -0726.2

2159 9.7 73710.0 -0729.8  
2160 10.1 73712.8 -0713.3  
2161 9.7 73734.5 -0737.2  
2162 9.5 73743.2 -0707.0  
2163 9.1 73745.1 -0737.2  
2164 6.5 73755.7 -0722.9  
2165 9.6 73758.4 -0702.5  
2166 8.5 73800.4 -0736.4  
2167 9.5 73812.4 -0738.8  
2168 9.5 73815.9 -0739.1

2169 9.6 73823.1 -0701.9  
2170 10.1 73825.5 -0707.2  
2171 8.9 73825.5 -0715.0  
2172 9.0 73827.4 -0731.0  
2173 9.7 73832.1 -0712.0  
2174 9.5 73833.6 -0704.9  
2175 9.2 73834.7 -0723.5  
2176 9.8 73834.9 -0704.6  
2177 8.8 73836.5 -0743.6  
2178 7.7 73847.6 -0710.6

2179 9.7 73851.6 -0708.3  
2180 9.7 73902.7 -0705.5  
2181 10.1 73907.8 -0747.5  
2182 9.8 73927.5 -0746.5  
2183 10.1 73930.8 -0709.5  
2184 9.3 73931.6 -0750.6  
2185 8.6 73956.7 -0756.4  
2186 9.8 73958.8 -0711.9  
2187 9.4 74016.4 -0732.5  
2188 8.8 74020.8 -0741.6

2189 9.7 74023.2 -0718.5  
2190 10.1 74023.2 -0701.3  
2191 9.3 74031.0 -0732.9  
2192 10.1 74041.5 -0739.1  
2193 9.4 74118.0 -0700.3  
2194 9.2 74119.3 -0706.9  
2195 8.5 74126.6 -0749.0  
2196 9.4 74128.3 -0730.5  
2197 9.8 74140.3 -0713.0  
2198 10.1 74145.2 -0723.4

2199 9.4 74224.9 -0750.3  
2200 10.1 74228.1 -0753.3  
2201 8.4 74230.4 -0739.3  
2202 10.1 74232.0 -0746.0  
2203 9.0 74234.7 -0740.0  
2204 10.1 74235.5 -0743.2  
2205 8.1 74242.4 -0757.0  
2206 8.6 74247.4 -0712.5  
2207 9.3 74250.2 -0700.3  
2208 9.3 74304.4 -0745.4

2209 10.1 74304.9 -0701.5  
2210 9.7 74306.1 -0750.1  
2211 8.9 74316.5 -0733.2  
2212 9.7 74319.1 -0743.0  
2213 9.4 74321.6 -0743.0  
2214 9.8 74352.4 -0736.5  
2215 10.1 74401.2 -0716.3  
2216 9.4 74404.0 -0726.3  
2217 9.2 74409.1 -0715.1  
2218 9.7 74410.6 -0707.8

2219 9.5 74412.7 -0742.3  
2220 9.6 74414.7 -0734.9  
2221 9.9 74415.9 -0744.0  
2222 9.4 74421.5 -0736.7  
2223 9.5 74438.9 -0732.7  
2224 9.8 74439.5 -0706.6  
2225 8.9 74445.5 -0755.9  
2226 9.3 74445.5 -0752.0  
2227 8.5 74447.2 -0733.7  
2228 9.8 74458.5 -0713.3

2229 9.7 74505.8 -0740.3  
2230 8.8 74506.0 -0703.1  
2231 9.0 74510.5 -0701.2  
2232 9.6 74514.8 -0753.5  
2233 9.0 74521.9 -0754.8  
2234 9.5 74539.6 -0705.7  
2235 9.2 74547.5 -0758.1  
2236 8.4 74548.9 -0736.2  
2237 10.1 74551.5 -0747.8  
2238 8.6 74557.8 -0702.1

2239 9.1 74612.1 -0741.0  
2240 9.8 74617.7 -0724.6  
2241 9.5 74633.6 -0717.1  
2242 9.3 74640.7 -0708.7  
2243 9.5 74641.5 -0731.0  
2244 9.0 74655.6 -0725.1  
2245 9.0 74659.2 -0707.1  
2246 8.5 74721.6 -0700.8  
2247 9.4 74730.3 -0729.7  
2248 8.6 74733.4 -0758.7

2249 9.5 74736.2 -0728.3  
2250 9.4 74741.2 -0714.1  
2251 9.0 74746.0 -0701.8  
2252 9.8 74746.3 -0739.1  
2253 9.3 74800.4 -0733.0  
2254 8.8 74808.9 -0733.0  
2255 9.0 74809.6 -0736.5  
2256 8.5 74829.3 -0754.7  
2257 9.3 74835.3 -0736.0  
2258 9.5 74841.4 -0722.2

2259 9.4 74841.6 -0701.8  
2260 9.4 74849.8 -0730.0  
2261 9.0 74859.2 -0734.5  
2262 9.2 74905.7 -0721.1  
2263 9.8 74906.9 -0757.7  
2264 7.3 74919.5 -0736.8  
2265 9.0 74921.1 -0745.0  
2266 9.5 74936.3 -0750.8  
2267 9.3 74935.7 -0755.6  
2268 9.5 74937.8 -0703.0

2269 9.5 74950.2 -0742.9  
2270 9.4 74950.8 -0745.2  
2271 9.6 74953.8 -0729.3  
2272 9.1 75012.7 -0726.8  
2273 7.3 75017.4 -0725.0  
2274 9.2 75017.4 -0721.4  
2275 9.2 75023.6 -0714.5  
2276 10.1 75030.3 -0717.7  
2277 10.1 75048.2 -0743.2  
2278 8.7 75056.5 -0714.6

2279 9.0 75058.1 -0701.0  
2280 9.8 75105.4 -0713.1  
2281 9.2 75107.3 -0718.7  
2282 9.5 75111.0 -0720.1  
2283 9.4 75122.5 -0748.6  
2284 9.8 75123.2 -0739.7  
2285 9.2 75140.1 -0721.4  
2286 8.8 75140.9 -0756.8  
2287 8.7 75149.1 -0707.5  
2288 9.5 75201.8 -0707.9

2289 9.0 75205.8 -0751.1  
2290 9.8 75208.4 -0712.1  
2291 8.3 75212.3 -0706.7  
2292 9.8 75213.8 -0738.2  
2293 8.5 75216.0 -0716.6  
2294 9.0 75230.7 -0731.9  
2295 9.8 75234.5 -0718.7  
2296 8.5 75246.2 -0711.8  
2297 9.5 75250.9 -0733.5  
2298 10.1 75255.6 -0757.1

2299 9.0 75257.6 -0759.7  
2300 9.1 75301.0 -0756.5  
2301 9.1 75302.7 -0756.4  
2302 9.0 75302.8 -0714.0  
2303 9.5 75303.9 -0710.0  
2304 9.4 75304.6 -0743.6  
2305 10.1 75312.0 -0735.4  
2306 9.5 75316.0 -0740.0  
2307 9.5 75322.2 -0727.8  
2308 8.5 75325.5 -0738.8

2309 9.5 75329.9 -0703.9  
2310 8.3 75352.4 -0715.1  
2311 9.3 75410.0 -0756.3  
2312 9.1 75411.5 -0717.4  
2313 9.0 75412.1 -0759.6  
2314 9.8 75420.2 -0726.3  
2315 9.7 75425.7 -0725.4  
2316 9.6 75431.3 -0711.1  
2317 9.3 75433.3 -0749.3  
2318 8.8 75441.9 -0716.8

2319 8.4 75448.2 -0748.8  
2320 8.8 75456.6 -0701.2  
2321 8.9 75503.1 -0711.1  
2322 9.7 75509.2 -0714.7  
2323 10.1 75516.7 -0709.5  
2324 9.5 75534.9 -0756.2  
2325 9.4 75544.1 -0746.8  
2326 9.7 75557.2 -0714.5  
2327 9.5 75558.5 -0702.8  
2328 8.7 75600.1 -0702.8

-07 2418 8h11m

2329 7.0 75629.9 -0746.2  
2330 9.0 75639.1 -0757.5  
2331 9.6 75639.8 -0755.1  
2332 9.7 75705.8 -0754.8  
2333 9.5 75708.0 -0752.6  
2334 9.8 75708.3 -0719.6  
2335 8.6 75723.1 -0754.8  
2336 9.0 75729.7 -0743.2  
2337 9.0 75731.0 -0735.1  
2338 10.1 75751.8 -0713.9

2339 9.8 75752.5 -0719.6  
2340 9.0 75753.4 -0754.8  
2341 8.9 75755.8 -0759.4  
2342 9.5 75811.0 -0735.8  
2343 8.8 75812.3 -0700.3  
2344 8.8 75832.0 -0735.6  
2345 9.4 75833.5 -0734.7  
2346 9.1 75835.6 -0709.1  
2347 8.2 75909.9 -0721.2  
2348 9.2 75915.4 -0748.1

2349 9.7 75939.6 -0739.1  
2350 9.4 75954.1 -0754.9  
2351 10.1 75955.0 -0700.0  
2352 9.5 75959.4 -0735.0  
2353 9.1 80006.9 -0703.6  
2354 9.4 80028.5 -0704.9  
2355 9.1 80050.1 -0758.3  
2356 9.0 80108.0 -0722.2  
2357 9.8 80121.5 -0701.6  
2358 9.6 80140.0 -0750.6

2359 9.2 80144.1 -0708.6  
2360 8.8 80149.9 -0705.1  
2361 9.8 80157.2 -0733.7  
2362 9.5 80200.3 -0725.3  
2363 9.3 80201.3 -0758.0  
2364 9.8 80240.3 -0720.2  
2365 9.5 80243.8 -0751.4  
2366 9.8 80250.8 -0755.2  
2367 9.2 80300.9 -0721.2  
2368 9.5 80302.7 -0718.0

2369 9.8 80311.8 -0747.3  
2370 9.5 80329.2 -0759.3  
2371 8.8 80335.7 -0718.1  
2372 9.4 80336.3 -0739.0  
2373 9.5 80338.1 -0711.9  
2374 9.1 80349.2 -0746.4  
2375 9.5 80354.7 -0718.4  
2376 9.1 80356.5 -0736.8  
2377 9.0 80402.9 -0733.3  
2378 5.5 80429.4 -0720.7

2379 9.0 80439.7 -0713.5  
2380 9.5 80441.1 -0707.2  
2381 9.0 80450.9 -0741.1  
2382 9.0 80525.7 -0745.3  
2383 9.5 80529.9 -0729.3  
2384 9.8 80544.6 -0759.0  
2385 9.5 80556.5 -0722.6  
2386 9.8 80610.9 -0736.1  
2387 9.3 80644.2 -0713.1  
2388 9.0 80647.5 -0712.2

2389 8.5 80649.3 -0747.3  
2390 9.8 80702.1 -0741.5  
2391 9.0 80717.5 -0738.3  
2392 9.4 80730.3 -0744.2  
2393 9.5 80748.4 -0750.1  
2394 9.5 80753.7 -0758.5  
2395 9.2 80757.8 -0700.9  
2396 9.2 80807.2 -0704.8  
2397 9.4 80808.4 -0730.0  
2398 9.0 80809.7 -0728.5

2399 9.4 80810.9 -0727.2  
2400 10.1 80814.0 -0729.6  
2401 9.8 80824.3 -0741.1  
2402 9.0 80829.8 -0756.4  
2403 9.4 80830.3 -0701.3  
2404 9.1 80842.0 -0711.3  
2405 9.6 80842.4 -0715.0  
2406 9.5 80846.6 -0719.9  
2407 9.4 80848.1 -0742.0  
2408 8.9 80909.8 -0731.7

2409 9.1 80927.6 -0724.8  
2410 9.5 80928.1 -0754.6  
2411 10.1 80933.3 -0707.1  
2412 9.1 80935.4 -0743.5  
2413 9.5 80942.8 -0743.6  
2414 9.0 80953.2 -0731.4  
2415 9.1 80956.3 -0747.1  
2416 9.3 81003.3 -0732.0  
2417 9.2 81034.5 -0736.6  
2418 9.4 81107.1 -0742.2



-07 2419 8h11m

2419 9.7 81116.2 -0728.2  
2420 9.6 81117.1 -0708.2  
2421 9.7 81118.4 -0706.7  
2422 9.0 81119.2 -0732.7  
2423 7.0 81119.9 -0707.1  
2424 9.5 81121.5 -0720.4  
2425 9.8 81124.5 -0733.0  
2426 8.8 81135.4 -0727.0  
2427 9.3 81140.4 -0704.8  
2428 9.4 81141.2 -0746.2

2429 9.4 81144.5 -0704.8  
2430 8.8 81154.3 -0710.6  
2431 8.5 81159.8 -0702.9  
2432 9.5 81205.0 -0733.9  
2433 7.2 81208.4 -0706.4  
2434 9.7 81211.9 -0715.7  
2435 9.8 81240.5 -0722.5  
2436 9.1 81309.8 -0705.4  
2437 9.3 81322.3 -0733.2  
2438 9.5 81330.4 -0754.1

2439 9.8 81351.7 -0723.1  
2440 9.5 81353.5 -0720.3  
2441 10.1 81356.3 -0705.7  
2442 9.1 81402.1 -0743.7  
2443 8.9 81410.5 -0719.0  
2444 7.0 81412.6 -0736.2  
2445 9.5 81419.6 -0751.9  
2446 8.0 81430.2 -0743.9  
2447 9.2 81430.4 -0718.1  
2448 8.8 81444.3 -0757.0

2449 9.5 81457.0 -0710.8  
2450 9.2 81458.8 -0700.4  
2451 9.4 81528.3 -0712.8  
2452 9.5 81548.9 -0704.7  
2453 9.1 81552.8 -0735.1  
2454 8.6 81554.1 -0715.9  
2455 9.8 81612.2 -0723.8  
2456 9.5 81621.9 -0754.1  
2457 9.0 81626.9 -0745.9  
2458 9.1 81627.9 -0707.6

2459 9.8 81630.8 -0704.2  
2460 9.1 81640.8 -0759.6  
2461 9.5 81642.4 -0751.2  
2462 9.4 81700.0 -0742.1  
2463 8.3 81704.7 -0756.5  
2464 9.7 81708.8 -0703.0  
2465 9.7 81726.1 -0755.5  
2466 8.9 81729.4 -0751.7  
2467 9.1 81730.2 -0748.1  
2468 9.4 81741.7 -0756.9

2469 9.1 81742.5 -0717.2  
2470 9.5 81756.9 -0713.4  
2471 9.8 81803.2 -0700.7  
2472 9.4 81807.5 -0724.2  
2473 9.3 81810.8 -0706.3  
2474 9.2 81811.4 -0724.0  
2475 9.1 81822.3 -0735.8  
2476 10.1 81829.7 -0701.5  
2477 10.1 81830.6 -0704.2  
2478 9.8 81838.9 -0755.2

2479 9.0 81841.2 -0747.4  
2480 9.5 81847.4 -0720.8  
2481 9.8 81909.2 -0720.5  
2482 8.2 81914.1 -0731.0  
2483 9.8 81921.6 -0718.7  
2484 8.5 81927.3 -0736.9  
2485 8.3 81947.0 -0759.6  
2486 9.8 81959.2 -0700.8  
2487 9.6 82015.7 -0733.5  
2488 10.1 82019.8 -0716.7

2489 9.8 82025.7 -0714.8  
2490 10.1 82030.3 -0716.9  
2491 8.5 82045.7 -0736.5  
2492 9.5 82101.1 -0745.3  
2493 9.4 82104.4 -0721.1  
2494 9.5 82116.3 -0736.5  
2495 8.0 82119.4 -0743.9  
2496 8.5 82131.0 -0742.6  
2497 9.4 82131.3 -0703.0  
2498 9.9 82136.7 -0738.4

2499 8.0 82143.8 -0703.9  
2500 9.6 82229.0 -0722.8  
2501 9.3 82239.2 -0729.5  
2502 9.1 82250.0 -0714.0  
2503 10.1 82259.5 -0750.0  
2504 9.1 82303.0 -0737.1  
2505 8.8 82314.7 -0715.6  
2506 8.8 82316.7 -0714.9  
2507 9.5 82324.3 -0753.0  
2508 8.6 82325.0 -0731.4

2509 9.6 82340.5 -0742.8  
2510 9.5 82348.0 -0741.0  
2511 9.5 82401.8 -0730.4  
2512 9.8 82410.9 -0746.1  
2513 10.1 82411.9 -0752.1  
2514 9.5 82428.4 -0746.8  
2515 8.2 82429.8 -0753.7  
2516 9.8 82444.0 -0752.6  
2517 9.8 82447.9 -0739.2  
2518 9.2 82449.0 -0745.4

2519 9.8 82453.3 -0756.0  
2520 9.4 82455.5 -0737.1  
2521 9.1 82527.1 -0727.3  
2522 9.8 82527.4 -0754.9  
2523 10.1 82541.9 -0726.0  
2524 9.2 82546.6 -0731.1  
2525 9.2 82609.4 -0715.8  
2526 9.7 82611.7 -0705.6  
2527 8.3 82617.6 -0725.0  
2528 9.3 82621.5 -0740.1

2529 9.5 82649.2 -0721.2  
2530 9.4 82650.1 -0720.1  
2531 10.1 82657.0 -0738.4  
2532 9.1 82657.4 -0756.0  
2533 8.5 82709.3 -0748.3  
2534 9.4 82712.2 -0728.6  
2535 8.8 82737.7 -0717.1  
2536 9.2 82754.9 -0753.1  
2537 8.5 82815.5 -0721.0  
2538 9.5 82820.3 -0712.1

2539 10.1 82822.5 -0701.4  
2540 5.7 82823.2 -0729.7  
2541 9.8 82830.7 -0749.2  
2542 10.1 82833.1 -0742.2  
2543 10.1 82834.9 -0754.8  
2544 9.5 82840.6 -0711.5  
2545 9.3 82917.9 -0719.7  
2546 9.1 82925.7 -0713.6  
2547 9.5 82926.1 -0710.2  
2548 9.8 82926.6 -0732.0

2549 9.8 82927.2 -0725.2  
2550 10.1 82932.0 -0705.2  
2551 10.1 82948.1 -0700.3  
2552 8.3 82958.5 -0718.6  
2553 9.3 83003.0 -0726.0  
2554 10.1 83018.4 -0737.1  
2555 9.5 83021.3 -0753.5  
2556 9.8 83025.7 -0730.2  
2557 9.0 83027.2 -0704.8  
2558 9.5 83039.0 -0716.1

2559 9.8 83107.5 -0732.4  
2560 10.1 83109.1 -0728.0  
2561 9.7 83111.3 -0733.0  
2562 9.3 83122.3 -0711.2  
2563 9.7 83137.3 -0711.8  
2564 10.1 83143.5 -0739.4  
2565 9.7 83201.1 -0717.0  
2566 9.0 83204.7 -0731.2  
2567 9.8 83207.4 -0739.5  
2568 9.8 83217.7 -0739.7

2569 9.1 83227.7 -0733.2  
2570 9.0 83230.0 -0741.9  
2571 9.6 83243.4 -0707.8  
2572 9.3 83242.8 -0751.0  
2573 8.3 83331.5 -0717.8  
2574 9.0 83336.6 -0726.6  
2575 9.2 83339.2 -0726.1  
2576 9.4 83351.0 -0749.8  
2577 9.8 83407.9 -0737.3  
2578 9.8 83412.7 -0749.0

2579 9.5 83422.3 -0709.2  
2580 9.8 83445.1 -0755.0  
2581 8.5 83448.7 -0744.9  
2582 8.6 83508.3 -0736.4  
2583 8.7 83511.6 -0752.9  
2584 9.1 83525.4 -0703.3  
2585 9.8 83525.7 -0755.2  
2586 10.1 83525.8 -0737.8  
2587 7.0 83526.5 -0758.5  
2588 8.9 83546.8 -0719.7

2589 9.8 83554.9 -0746.6  
2590 10.1 83601.8 -0733.1  
2591 9.6 83619.5 -0750.4  
2592 9.2 83634.1 -0718.8  
2593 9.3 83714.4 -0701.9  
2594 9.8 83722.9 -0710.9  
2595 8.6 83727.3 -0755.3  
2596 9.4 83740.2 -0706.9  
2597 7.6 83746.1 -0744.0  
2598 9.8 83756.4 -0757.4

2599 9.8 83758.6 -0710.8  
2600 9.9 83758.6 -0744.0  
2601 9.8 83814.6 -0745.0  
2602 9.8 83819.4 -0714.0  
2603 9.1 83819.5 -0741.2  
2604 9.1 83823.1 -0745.0  
2605 9.0 83844.9 -0711.2  
2606 10.1 83848.6 -0727.8  
2607 8.0 83900.1 -0703.3  
2608 9.7 83908.0 -0718.2

2609 8.7 83937.5 -0756.5  
2610 9.9 83955.8 -0707.5  
2611 10.1 84003.6 -0731.3  
2612 9.1 84009.8 -0746.7  
2613 9.9 84032.2 -0734.5  
2614 9.5 84042.7 -0732.7  
2615 9.1 84043.9 -0750.3  
2616 9.6 84059.9 -0739.5  
2617 7.8 84109.5 -0726.3  
2618 9.4 84111.9 -0738.7

2619 10.1 84126.3 -0754.5  
2620 9.6 84132.0 -0713.1  
2621 9.5 84144.7 -0751.1  
2622 10.1 84144.8 -0708.0  
2623 9.1 84153.9 -0745.3  
2624 9.2 84156.0 -0720.6  
2625 9.4 84205.2 -0751.6  
2626 9.2 84214.3 -0754.3  
2627 8.7 84216.4 -0724.7  
2628 10.1 84220.6 -0738.2

2629 10.1 84222.5 -0749.6  
2630 9.7 84223.8 -0750.5  
2631 9.2 84258.0 -0711.3  
2632 9.5 84258.4 -0738.2  
2633 10.1 84300.5 -0728.1  
2634 8.5 84340.4 -0732.8  
2635 9.4 84341.3 -0717.4  
2636 9.7 84342.0 -0708.5  
2637 8.5 84449.6 -0704.2  
2638 9.8 84451.5 -0701.0

2639 8.5 84455.9 -0722.9  
2640 9.9 84501.7 -0733.6  
2641 8.5 84519.5 -0711.3  
2642 9.5 84522.9 -0734.1  
2643 10.1 84548.6 -0733.7  
2644 9.7 84550.4 -0735.0  
2645 9.6 84551.0 -0726.3  
2646 9.6 84603.4 -0718.8  
2647 9.0 84605.2 -0710.8  
2648 9.8 84609.0 -0755.7

2649 8.5 84609.5 -0710.2  
2650 9.4 84624.9 -0724.5  
2651 9.4 84641.8 -0756.7  
2652 9.3 84642.2 -0725.4  
2653 9.1 84643.2 -0705.8  
2654 9.5 84649.0 -0744.8  
2655 9.9 84659.8 -0716.2  
2656 10.1 84718.3 -0716.6  
2657 9.3 84746.3 -0739.3  
2658 7.8 84748.1 -0716.2

2659 9.1 84807.1 -0707.0  
2660 9.1 84810.6 -0713.7  
2661 6.3 84823.0 -0725.1  
2662 9.2 84826.0 -0746.3  
2663 9.3 84851.5 -0730.4  
2664 9.1 84859.0 -0743.8  
2665 8.7 84919.9 -0724.4  
2666 10.1 84921.1 -0700.0  
2667 9.7 84923.2 -0738.1  
2668 9.4 84928.3 -0716.4

2669 8.9 84943.7 -0737.5  
2670 9.6 84948.0 -0732.3  
2671 9.0 85016.9 -0712.6  
2672 9.5 85018.3 -0723.8  
2673 9.9 85041.8 -0736.3  
2674 9.6 85100.7 -0736.3  
2675 9.5 85102.9 -0743.7  
2676 10.1 85114.6 -0732.8  
2677 9.0 85118.8 -0759.1  
2678 9.8 85134.4 -0745.3

2679 9.4 85134.6 -0725.8  
2680 10.1 85147.0 -0700.7  
2681 9.8 85150.0 -0746.0  
2682 9.6 85155.8 -0758.4  
2683 9.7 85204.4 -0720.6  
2684 9.0 85226.9 -0741.7  
2685 9.6 85228.5 -0730.5  
2686 9.7 85232.9 -0724.9  
2687 10.1 85251.4 -0754.8  
2688 9.1 85309.1 -0706.3

-07 2778 9h12m

2689 10.1 85310.7 -0709.4  
2690 10.1 85313.8 -0740.7  
2691 9.5 85315.6 -0734.8  
2692 10.1 85317.2 -0736.5  
2693 9.1 85330.6 -0717.5  
2694 9.3 85348.1 -0706.7  
2695 9.5 85412.2 -0709.8  
2696 7.9 85416.3 -0721.4  
2697 9.4 85422.9 -0742.2  
2698 9.4 85425.9 -0744.3

2699 9.0 85434.9 -0758.8  
2700 9.3 85443.2 -0709.4  
2701 7.3 85451.5 -0748.2  
2702 9.8 85451.7 -0710.0  
2703 9.8 85509.9 -0701.5  
2704 8.7 85537.3 -0755.9  
2705 9.8 85547.1 -0722.5  
2706 10.1 85621.4 -0747.4  
2707 9.0 85627.1 -0705.0  
2708 9.8 85635.8 -0723.3

2709 9.0 85639.7 -0749.4  
2710 9.8 85651.3 -0759.9  
2711 10.1 85651.4 -0701.4  
2712 9.0 85652.7 -0738.3  
2713 9.8 85716.8 -0757.5  
2714 8.2 85834.7 -0701.7  
2715 9.0 85835.3 -0741.1  
2716 8.5 85847.8 -0757.6  
2717 9.6 85902.8 -0758.1  
2718 9.1 85909.5 -0732.3

2719 9.7 85912.9 -0732.7  
2720 9.4 85959.8 -0715.1  
2721 8.4 90002.1 -0712.7  
2722 9.6 90020.0 -0723.6  
2723 10.1 90021.0 -0758.5  
2724 10.1 90021.9 -0736.6  
2725 8.3 90024.4 -0701.9  
2726 7.9 90050.4 -0713.5  
2727 9.4 90054.9 -0747.0  
2728 10.1 90100.0 -0733.0

2729 9.4 90113.2 -0730.1  
2730 9.7 90117.4 -0720.7  
2731 10.1 90127.9 -0716.0  
2732 10.1 90157.9 -0711.5  
2733 10.1 90202.3 -0759.3  
2734 9.0 90204.2 -0739.9  
2735 8.2 90207.6 -0735.8  
2736 8.8 90231.1 -0735.3  
2737 9.2 90234.5 -0733.7  
2738 9.5 90237.4 -0716.8

2739 8.3 90238.8 -0750.7  
2740 9.1 90243.4 -0730.6  
2741 8.8 90248.5 -0759.3  
2742 9.7 90249.4 -0709.5  
2743 9.5 90257.4 -0750.5  
2744 9.8 90262.0 -0707.0  
2745 10.1 90327.8 -0742.0  
2746 9.8 90338.9 -0746.8  
2747 9.1 90351.4 -0700.5  
2748 9.7 90357.8 -0716.2

2749 10.1 90411.6 -0727.5  
2750 9.3 90424.4 -0727.8  
2751 9.3 90424.5 -0741.9  
2752 9.4 90432.6 -0758.0  
2753 9.8 90449.9 -0702.5  
2754 8.7 90453.0 -0730.7  
2755 9.7 90511.9 -0701.7  
2756 10.1 90513.6 -0739.1  
2757 10.1 90602.7 -0712.7  
2758 9.5 90604.3 -0743.6

2759 8.8 90608.7 -0742.8  
2760 9.8 90632.8 -0725.5  
2761 9.7 90636.7 -0708.6  
2762 9.1 90711.8 -0741.8  
2763 8.9 90712.5 -0740.7  
2764 10.1 90736.6 -0730.2  
2765 9.8 90802.1 -0749.1  
2766 7.0 90815.5 -0752.7  
2767 9.3 90815.8 -0723.7  
2768 8.8 90818.8 -0714.5

2769 10.1 90832.5 -0742.2  
2770 9.7 90833.1 -0731.7  
2771 9.3 90852.2 -0713.0  
2772 7.5 90857.4 -0745.1  
2773 9.6 90910.5 -0719.6  
2774 9.1 90959.8 -0750.4  
2775 10.1 91003.5 -0744.6  
2776 9.1 91108.2 -0729.5  
2777 9.5 91157.2 -0758.3  
2778 8.2 91214.9 -0744.8



-07 2779 9h12m

2779 9.0 91227.0 -0717.8  
2780 9.8 91252.3 -0704.6  
2781 9.5 91257.9 -0737.9  
2782 8.7 91309.3 -0746.0  
2783 9.4 91312.0 -0740.7  
2784 8.8 91331.6 -0705.1  
2785 7.7 91336.4 -0707.4  
2786 9.3 91345.0 -0705.3  
2787 9.5 91357.9 -0741.2  
2788 9.2 91419.8 -0741.4  
  
2789 8.9 91444.8 -0747.7  
2790 8.8 91451.0 -0721.8  
2791 8.3 91524.7 -0750.8  
2792 8.6 91544.4 -0701.1  
2793 9.2 91545.9 -0716.4  
2794 9.1 91548.2 -0727.3  
2795 8.2 91558.6 -0705.8  
2796 10. 91601.0 -0741.5  
2797 9.6 91614.0 -0757.6  
2798 8.5 91614.2 -0703.2  
  
2799 9.8 91622.2 -0754.5  
2800 9.8 91636.8 -0708.0  
2801 9.5 91652.8 -0715.0  
2802 9.3 91731.1 -0726.4  
2803 8.8 91737.3 -0734.5  
2804 9.4 91739.3 -0730.8  
2805 9.2 91844.0 -0711.7  
2806 8.7 91917.0 -0758.7  
2807 8.8 91919.4 -0700.4  
2808 9.2 91934.6 -0726.7  
  
2809 9.7 91950.5 -0725.5  
2810 9.1 92006.9 -0724.6  
2811 9.4 92021.3 -0708.6  
2812 9.8 92047.0 -0731.6  
2813 7.2 92103.3 -0705.4  
2814 8.0 92111.6 -0727.7  
2815 9.8 92134.1 -0749.7  
2816 9.1 92141.8 -0754.3  
2817 9.6 92143.4 -0708.5  
2818 9.1 92147.5 -0729.1  
  
2819 8.0 92147.9 -0750.1  
2820 9.6 92224.5 -0718.8  
2821 9.4 92232.3 -0713.8  
2822 9.7 92244.3 -0738.0  
2823 9.8 92322.8 -0711.7  
2824 8.6 92332.9 -0742.8  
2825 9.3 92334.0 -0719.0  
2826 8.9 92343.6 -0746.6  
2827 8.9 92344.7 -0734.9  
2828 8.5 92359.0 -0757.6  
  
2829 8.3 92414.1 -0730.5  
2830 9.6 92420.2 -0702.5  
2831 8.9 92427.6 -0732.2  
2832 9.3 92454.6 -0756.4  
2833 9.7 92500.8 -0716.8  
2834 8.8 92516.2 -0705.8  
2835 9.8 92537.1 -0759.9  
2836 7.0 92554.6 -0751.9  
2837 9.2 92609.6 -0728.7  
2838 9.5 92614.1 -0704.8  
  
2839 9.4 92616.6 -0704.8  
2840 9.3 92635.3 -0703.7  
2841 9.8 92717.6 -0736.4  
2842 9.1 92745.0 -0753.2  
2843 8.0 92829.0 -0756.9  
2844 10. 92830.7 -0713.3  
2845 9.5 92921.1 -0702.7  
2846 8.2 92935.2 -0758.2  
2847 9.2 92956.5 -0718.7  
2848 9.8 93007.7 -0745.6  
  
2849 10. 93024.2 -0742.7  
2850 9.2 93046.6 -0740.4  
2851 9.2 93106.5 -0735.1  
2852 8.8 93108.9 -0725.6  
2853 8.8 93123.0 -0700.2  
2854 10. 93148.3 -0747.4  
2855 9.5 93149.3 -0720.0  
2856 9.2 93229.9 -0753.9  
2857 9.0 93237.9 -0728.1  
2858 9.8 93303.2 -0711.8  
  
2859 9.8 93303.4 -0727.5  
2860 9.0 93308.6 -0711.6  
2861 9.8 93353.2 -0747.9  
2862 9.7 93404.4 -0713.7  
2863 9.5 93418.1 -0740.8  
2864 9.5 93431.5 -0751.2  
2865 9.6 93441.8 -0711.5  
2866 9.4 93456.4 -0713.6  
2867 8.2 93502.6 -0706.5  
2868 9.1 93509.2 -0721.9

2869 9.0 93509.6 -0713.7  
2870 9.8 93510.3 -0710.8  
2871 9.1 93516.2 -0725.2  
2872 9.6 93529.2 -0727.8  
2873 9.0 93532.7 -0726.5  
2874 10. 93558.5 -0701.9  
2875 9.6 93656.8 -0728.8  
2876 9.5 93702.2 -0745.8  
2877 10. 93702.9 -0714.6  
2878 9.4 93720.3 -0729.4  
  
2879 9.3 93735.7 -0723.8  
2880 9.0 93801.9 -0717.0  
2881 9.2 93812.0 -0712.9  
2882 7.5 93815.7 -0748.5  
2883 10. 93830.7 -0706.7  
2884 9.5 93835.0 -0739.0  
2885 9.3 93859.0 -0757.2  
2886 10. 93908.8 -0755.8  
2887 10. 93916.9 -0705.1  
2888 9.5 93934.6 -0742.9  
  
2889 9.1 93950.8 -0751.2  
2890 9.3 94022.1 -0739.1  
2891 9.5 94027.7 -0714.0  
2892 9.9 94034.8 -0757.1  
2893 9.3 94037.8 -0750.9  
2894 8.7 94041.7 -0749.3  
2895 8.1 94053.9 -0739.9  
2896 9.5 94101.8 -0703.5  
2897 9.5 94105.3 -0718.8  
2898 9.0 94139.7 -0749.6  
  
2899 10. 94145.8 -0706.1  
2900 9.0 94153.6 -0748.5  
2901 9.5 94203.4 -0744.5  
2902 9.5 94246.4 -0737.2  
2903 10. 94311.0 -0707.2  
2904 9.2 94329.7 -0714.3  
2905 9.2 94342.9 -0738.2  
2906 9.0 94413.2 -0753.1  
2907 9.6 94419.1 -0706.6  
2908 8.9 94442.3 -0715.8  
  
2909 6.0 94520.1 -0725.3  
2910 9.2 94536.3 -0706.1  
2911 9.8 94544.2 -0702.7  
2912 9.3 94549.4 -0736.2  
2913 9.2 94555.0 -0703.2  
2914 9.2 94559.7 -0712.3  
2915 9.2 94620.1 -0721.4  
2916 9.4 94633.2 -0757.0  
2917 10. 94653.3 -0732.6  
2918 10. 94700.8 -0719.4  
  
2919 10. 94709.8 -0731.6  
2920 8.4 94729.1 -0707.5  
2921 9.2 94737.0 -0716.3  
2922 9.4 94803.0 -0700.7  
2923 10. 94813.3 -0732.6  
2924 10. 94818.5 -0736.7  
2925 9.5 94836.1 -0710.9  
2926 9.2 94859.9 -0703.5  
2927 9.4 94924.7 -0708.5  
2928 9.7 94928.8 -0756.2  
  
2929 9.4 94930.4 -0715.5  
2930 10. 95005.9 -0707.5  
2931 8.6 95015.6 -0729.2  
2932 10. 95059.6 -0729.8  
2933 10. 95124.0 -0703.7  
2934 8.5 95130.5 -0733.8  
2935 9.4 95135.1 -0719.9  
2936 7.8 95221.0 -0710.0  
2937 9.5 95252.3 -0728.5  
2938 9.1 95310.4 -0703.4  
  
2939 9.4 95404.2 -0748.9  
2940 9.4 95416.9 -0729.1  
2941 9.5 95434.3 -0728.1  
2942 9.1 95443.8 -0728.0  
2943 9.3 95458.7 -0704.3  
2944 9.0 95517.6 -0722.1  
2945 9.6 95544.1 -0720.5  
2946 8.3 95602.1 -0752.6  
2947 9.5 95604.2 -0753.4  
2948 8.6 95637.9 -0740.8  
  
2949 9.5 95658.5 -0716.9  
2950 9.7 95711.3 -0734.3  
2951 20.0 95800.8 -0701.2  
2952 9.5 95808.3 -0724.2  
2953 10. 95811.0 -0757.9  
2954 9.4 95834.6 -0700.6  
2955 9.5 95843.1 -0720.7  
2956 9.3 95859.2 -0741.3  
2957 9.2 95919.6 -0751.2  
2958 9.4 95922.7 -0732.6

2959 9.7 95956.6 -0707.4  
2960 9.1 95959.0 -0720.3  
2961 7.5 100010.8 -0701.1  
2962 9.7 100058.5 -0733.5  
2963 8.8 100112.4 -0714.7  
2964 8.8 100115.3 -0700.3  
2965 9.3 100121.3 -0724.7  
2966 9.4 100149.8 -0719.0  
2967 10. 100202.0 -0711.9  
2968 9.5 100204.4 -0729.1  
  
2969 9.1 100222.3 -0722.4  
2970 9.1 100237.2 -0721.9  
2971 9.5 100247.9 -0706.3  
2972 6.2 100255.8 -0741.5  
2973 9.4 100257.7 -0711.5  
2974 9.3 100303.4 -0728.1  
2975 9.3 100303.9 -0712.3  
2976 9.4 100321.2 -0719.2  
2977 6.0 100343.3 -0742.1  
2978 9.7 100352.9 -0744.7  
  
2979 8.3 100458.4 -0707.0  
2980 9.9 100525.6 -0735.1  
2981 8.0 100535.4 -0709.4  
2982 8.4 100556.2 -0717.1  
2983 9.4 100557.3 -0709.7  
2984 9.8 100558.5 -0714.4  
2985 8.2 100603.4 -0743.7  
2986 9.1 100607.2 -0746.7  
2987 9.2 100623.1 -0722.2  
2988 9.5 100646.6 -0740.8  
  
2989 7.3 100654.9 -0715.9  
2990 9.1 100659.7 -0736.3  
2991 10. 100711.7 -0747.2  
2992 9.4 100748.3 -0705.3  
2993 9.8 100759.7 -0747.3  
2994 9.8 100803.1 -0754.2  
2995 9.9 100825.9 -0727.8  
2996 9.7 100913.2 -0737.1  
2997 9.3 100924.5 -0713.9  
2998 8.9 100936.7 -0755.5  
  
2999 9.2 100941.0 -0716.7  
3000 9.4 101017.2 -0726.2  
3001 5.5 101025.1 -0720.7  
3002 8.9 101045.4 -0709.8  
3003 9.7 101116.6 -0742.2  
3004 10. 101128.1 -0710.9  
3005 8.7 101129.8 -0756.2  
3006 9.3 101211.0 -0702.0  
3007 9.3 101243.7 -0758.6  
3008 9.7 101247.0 -0710.8  
  
3009 8.8 101300.2 -0714.3  
3010 9.4 101334.7 -0749.1  
3011 8.7 101336.5 -0715.3  
3012 8.4 101339.9 -0749.9  
3013 9.7 101351.6 -0713.7  
3014 8.2 101356.8 -0758.8  
3015 9.4 101358.7 -0721.6  
3016 9.5 101358.7 -0707.4  
3017 9.5 101419.0 -0736.7  
3018 9.3 101501.7 -0757.7  
  
3019 9.2 101545.1 -0727.0  
3020 9.7 101544.8 -0726.1  
3021 7.9 101601.8 -0702.5  
3022 9.5 101606.6 -0743.2  
3023 9.7 101617.7 -0740.9  
3024 9.6 101629.6 -0700.8  
3025 10. 101700.0 -0700.9  
3026 8.9 101724.1 -0755.5  
3027 10. 101734.6 -0705.1  
3028 9.9 101738.8 -0710.3  
  
3029 9.3 101834.7 -0722.2  
3030 7.5 101841.5 -0737.0  
3031 9.6 101852.6 -0729.9  
3032 10. 101911.5 -0737.6  
3033 10. 101922.1 -0753.7  
3034 9.4 101942.3 -0738.4  
3035 9.3 101946.9 -0756.4  
3036 10. 101949.1 -0730.0  
3037 9.8 101953.4 -0715.7  
3038 9.2 102001.4 -0743.3  
  
3039 8.1 102003.1 -0703.7  
3040 10. 102020.5 -0701.3  
3041 9.3 102035.4 -0710.2  
3042 8.7 102111.7 -0733.0  
3043 9.4 102143.3 -0757.0  
3044 9.1 102202.0 -0722.0  
3045 9.4 102218.5 -0750.7  
3046 9.8 102221.4 -0749.8  
3047 9.8 102241.7 -0709.7  
3048 9.9 102241.8 -0759.2

3049 9.7 102244.1 -0726.4  
3050 9.8 102313.9 -0709.7  
3051 9.1 102332.9 -0709.3  
3052 9.0 102338.4 -0742.4  
3053 9.3 102342.7 -0757.5  
3054 9.4 102406.9 -0747.8  
3055 8.2 102459.5 -0727.0  
3056 8.7 102507.9 -0747.8  
3057 9.5 102544.7 -0724.3  
3058 9.1 102615.8 -0747.5  
  
3059 9.5 102618.6 -0734.5  
3060 9.1 102657.0 -0725.6  
3061 8.6 102734.5 -0710.7  
3062 9.5 102738.3 -0741.3  
3063 10. 102740.6 -0735.2  
3064 9.1 102746.3 -0712.5  
3065 9.4 102833.3 -0711.5  
3066 7.7 102855.8 -0746.8  
3067 10. 102907.9 -0752.9  
3068 9.6 102925.0 -0719.4  
  
3069 8.2 102927.7 -0757.8  
3070 8.4 102939.4 -0701.6  
3071 9.3 102944.2 -0743.6  
3072 9.0 102956.8 -0711.8  
3073 9.1 103000.5 -0720.3  
3074 9.8 103003.6 -0755.6  
3075 9.6 103009.4 -0742.2  
3076 9.4 103024.1 -0707.1  
3077 9.4 103035.6 -0718.3  
3078 9.1 103052.3 -0744.2  
  
3079 9.0 103118.3 -0747.0  
3080 9.8 103135.0 -0734.7  
3081 8.5 103135.3 -0729.2  
3082 9.0 103213.9 -0751.8  
3083 7.7 103215.1 -0712.0  
3084 9.5 103239.4 -0729.6  
3085 9.2 103247.2 -0705.1  
3086 9.5 103201.3 -0704.0  
3087 9.6 103214.9 -0720.3  
3088 9.5 103230.6 -0743.2  
  
3089 9.0 103401.6 -0711.9  
3090 10. 103418.5 -0707.1  
3091 10. 103418.7 -0715.2  
3092 9.8 103430.8 -0749.7  
3093 9.1 103434.8 -0758.7  
3094 7.3 103435.9 -0718.1  
3095 9.1 103455.7 -0725.5  
3096 10. 103500.8 -0717.3  
3097 6.9 103511.3 -0757.9  
3098 9.8 103514.1 -0713.9  
  
3099 9.2 103517.1 -0734.9  
3100 9.5 103541.9 -0712.3  
3101 9.8 103636.4 -0750.5  
3102 8.8 103656.0 -0752.4  
3103 9.3 103714.9 -0738.4  
3104 9.2 103721.1 -0718.1  
3105 8.2 103711.4 -0750.6  
3106 9.0 103825.2 -0704.8  
3107 8.8 103851.7 -0717.5  
3108 9.4 103902.5 -0758.8  
  
3109 9.2 103905.1 -0721.4  
3110 9.6 103913.3 -0750.2  
3111 9.4 103920.2 -0730.0  
3112 9.5 103946.1 -0758.1  
3113 9.5 103953.2 -0708.4  
3114 9.0 104014.4 -0720.4  
3115 9.3 104031.8 -0738.1  
3116 8.8 104121.7 -0721.9  
3117 9.0 104131.7 -0758.9  
3118 8.6 104141.7 -0724.4  
  
3119 9.5 104203.2 -0744.5  
3120 9.4 104216.0 -0750.9  
3121 9.5 104234.7 -0752.3  
3122 10. 104248.1 -0730.0  
3123 9.5 104259.3 -0747.2  
3124 8.3 104311.8 -0742.1  
3125 9.8 104321.1 -0704.1  
3126 9.1 104336.1 -0758.7  
3127 9.4 104344.0 -0718.6  
3128 9.8 104404.9 -0759.0  
  
3129 8.5 104424.0 -0718.0  
3130 8.5 104508.2 -0749.0  
3131 9.5 104519.3 -0749.2  
3132 9.6 104541.6 -0702.5  
3133 9.0 104614.0 -0718.1  
3134 9.5 104614.6 -0731.8  
3135 9.5 104635.2 -0737.1  
3136 9.2 104654.7 -0734.3  
3137 9.8 104717.5 -0713.7  
3138 8.5 104721.0 -0756.0

-07 3138 10h47m



-07 3139 10h47m

3139 8.0 104728.7 -0736.5  
3140 9.9 104735.9 -0717.3  
3141 8.6 104759.1 -0722.7  
3142 9.4 104837.0 -0736.3  
3143 9.4 104859.5 -0730.1  
3144 9.2 104909.7 -0750.2  
3145 9.5 105004.1 -0751.3  
3146 10. 105017.5 -0707.4  
3147 8.8 105020.5 -0731.0  
3148 9.8 105045.0 -0726.4  
  
3149 9.0 105046.5 -0704.7  
3150 9.3 105057.6 -0715.1  
3151 9.8 105114.7 -0742.0  
3152 9.5 105133.1 -0736.7  
3153 9.2 105210.9 -0712.6  
3154 9.2 105239.0 -0757.0  
3155 10. 105258.4 -0732.7  
3156 9.9 105300.2 -0726.6  
3157 9.8 105319.8 -0724.2  
3158 9.0 105402.0 -0728.5  
  
3159 9.8 105451.4 -0722.7  
3160 10. 105504.8 -0709.4  
3161 9.5 105511.1 -0707.2  
3162 9.2 105511.4 -0727.2  
3163 8.2 105542.8 -0736.5  
3164 9.8 105610.7 -0712.5  
3165 9.2 105637.0 -0709.9  
3166 9.2 105663.4 -0727.0  
3167 9.5 105717.4 -0734.3  
3168 9.8 105722.1 -0754.6  
  
3169 9.3 105829.8 -0721.9  
3170 9.4 105913.4 -0703.7  
3171 9.6 105920.5 -0701.7  
3172 9.8 105942.9 -0731.4  
3173 9.2 105953.2 -0714.0  
3174 8.5 105959.0 -0749.0  
3175 9.0 106004.5 -0734.1  
3176 9.3 106016.3 -0747.5  
3177 9.4 106026.3 -0718.7  
3178 9.5 106047.3 -0705.0  
  
3179 9.3 110050.8 -0709.2  
3180 9.1 110111.0 -0722.3  
3181 9.8 110217.3 -0709.0  
3182 9.1 110233.6 -0737.8  
3183 9.4 110235.3 -0755.5  
3184 9.5 110327.4 -0700.3  
3185 9.0 110344.3 -0714.2  
3186 9.0 110345.9 -0727.7  
3187 9.4 110406.6 -0703.6  
3188 8.8 110410.0 -0753.0  
  
3189 9.1 110411.0 -0728.6  
3190 9.6 110431.9 -0750.8  
3191 9.3 110459.8 -0738.2  
3192 9.2 110515.7 -0732.9  
3193 9.6 110520.9 -0702.1  
3194 9.0 110546.6 -0725.5  
3195 9.1 110555.8 -0715.9  
3196 9.1 110641.7 -0748.2  
3197 7.2 110653.1 -0732.4  
3198 9.3 110712.6 -0759.9  
  
3199 9.4 110801.8 -0702.4  
3200 9.8 110906.5 -0700.7  
3201 9.5 110910.5 -0720.5  
3202 9.2 110917.9 -0752.9  
3203 9.7 110936.3 -0759.7  
3204 9.2 110937.1 -0726.4  
3205 8.8 110941.8 -0743.3  
3206 9.3 111024.7 -0738.7  
3207 9.8 111026.6 -0759.8  
3208 9.5 111036.6 -0717.8  
  
3209 9.6 111047.7 -0706.8  
3210 9.0 111100.8 -0719.3  
3211 9.0 111210.2 -0748.5  
3212 9.4 111253.0 -0742.4  
3213 9.0 111315.4 -0747.3  
3214 9.1 111324.2 -0744.1  
3215 9.4 111326.6 -0751.8  
3216 9.2 111346.1 -0739.5  
3217 9.1 111350.7 -0703.1  
3218 9.8 111411.2 -0743.4  
  
3219 10. 111428.7 -0741.7  
3220 9.0 111451.0 -0731.1  
3221 10. 111452.5 -0729.5  
3222 9.6 111505.7 -0751.5  
3223 8.2 111509.8 -0716.4  
3224 8.4 111527.1 -0718.2  
3225 9.4 111534.1 -0706.0  
3226 9.8 111540.6 -0714.7  
3227 10. 111627.8 -0759.1  
3228 9.4 111633.7 -0752.6

3229 9.2 111704.5 -0728.3  
3230 9.4 111726.1 -0741.9  
3231 8.0 111746.0 -0740.3  
3232 9.5 111751.1 -0742.1  
3233 8.3 111809.0 -0703.2  
3234 9.5 111828.1 -0746.4  
3235 10. 111830.2 -0743.5  
3236 9.4 111931.0 -0707.2  
3237 9.1 112007.7 -0714.4  
3238 9.4 112013.3 -0726.1  
  
3239 9.5 112021.3 -0722.3  
3240 8.7 112146.5 -0713.2  
3241 9.3 112159.9 -0757.5  
3242 9.4 112202.5 -0713.0  
3243 9.8 112207.0 -0757.0  
3244 9.2 112238.0 -0715.6  
3245 9.5 112321.6 -0745.4  
3246 9.2 112406.6 -0726.1  
3247 9.0 112420.8 -0748.1  
3248 9.5 112438.6 -0747.2  
  
3249 9.5 112524.2 -0712.1  
3250 6.3 112525.6 -0701.8  
3251 10. 112648.1 -0741.7  
3252 9.8 112648.8 -0730.9  
3253 9.5 112650.9 -0712.5  
3254 10. 112722.4 -0721.7  
3255 8.8 112730.5 -0707.6  
3256 9.7 112814.5 -0704.6  
3257 9.8 112841.4 -0714.1  
3258 9.5 112850.0 -0723.9  
  
3259 9.3 112901.4 -0711.1  
3260 9.5 112906.2 -0747.0  
3261 9.5 112912.5 -0746.9  
3262 9.7 113012.4 -0726.1  
3263 8.5 113021.1 -0720.8  
3264 9.5 113026.1 -0741.7  
3265 9.5 113040.1 -0741.9  
3266 9.5 113055.7 -0743.7  
3267 9.5 113058.4 -0741.0  
3268 9.2 113209.2 -0753.6  
  
3269 9.8 113247.4 -0703.7  
3270 9.8 113254.6 -0749.1  
3271 7.0 113315.6 -0735.7  
3272 9.2 113324.1 -0745.1  
3273 9.5 113435.7 -0736.0  
3274 9.5 113521.6 -0746.0  
3275 9.5 113531.9 -0745.1  
3276 9.1 113531.2 -0753.9  
3277 8.7 113611.6 -0714.6  
3278 8.5 113701.9 -0717.0  
  
3279 8.5 113711.4 -0701.3  
3280 9.5 113728.8 -0701.3  
3281 9.5 113735.0 -0743.1  
3282 9.0 113905.9 -0728.4  
3283 9.4 113910.5 -0738.3  
3284 9.9 113913.1 -0745.4  
3285 9.2 113916.2 -0754.4  
3286 9.4 113925.0 -0739.0  
3287 9.8 114000.0 -0732.3  
3288 8.5 114035.6 -0749.2  
  
3289 9.7 114038.2 -0711.1  
3290 9.1 114039.7 -0719.9  
3291 9.4 114039.9 -0730.5  
3292 9.6 114125.5 -0738.3  
3293 9.5 114136.0 -0735.3  
3294 9.3 114208.0 -0706.5  
3295 8.7 114226.6 -0715.2  
3296 9.6 114237.5 -0741.8  
3297 10. 114243.7 -0758.5  
3298 9.0 114253.0 -0747.8  
  
3299 10. 114315.0 -0704.1  
3300 10. 114329.9 -0707.1  
3301 9.7 114340.0 -0704.7  
3302 9.1 114344.2 -0751.9  
3303 7.0 114347.2 -0711.0  
3304 9.5 114423.5 -0748.7  
3305 9.4 114434.9 -0735.7  
3306 9.0 114512.3 -0727.8  
3307 9.2 114513.2 -0707.0  
3308 9.4 114527.3 -0728.1  
  
3309 9.9 114527.7 0755.4  
3310 10. 114624.7 -0700.5  
3311 9.4 114634.4 -0735.6  
3312 9.6 114640.2 -0712.7  
3313 9.1 114640.3 -0754.1  
3314 9.1 114739.8 -0730.1  
3315 9.5 114741.6 -0755.2  
3316 8.5 114818.7 -0723.9  
3317 9.8 114820.3 -0732.8  
3318 9.9 114825.9 -0740.1

3319 9.4 114930.2 -0741.9  
3320 9.2 114943.5 -0758.0  
3321 10. 114953.0 -0750.9  
3322 6.6 115020.8 -0744.7  
3323 7.6 115021.2 -0728.2  
3324 9.5 115045.6 -0758.1  
3325 9.6 115105.6 -0730.6  
3326 8.5 115117.7 -0711.9  
3327 9.4 115126.2 -0743.1  
3328 9.4 115128.7 -0736.0  
  
3329 9.0 115132.4 -0715.3  
3330 9.5 115240.0 -0720.2  
3331 8.9 115249.1 -0700.6  
3332 8.0 115401.6 -0720.9  
3333 9.5 115403.9 -0726.1  
3334 9.0 115417.2 -0734.3  
3335 9.5 115431.6 -0706.9  
3336 9.5 115436.1 -0730.0  
3337 9.4 115534.8 -0756.5  
3338 9.3 115544.2 -0754.8  
  
3339 7.7 115718.6 -0710.3  
3340 8.3 115735.1 -0743.1  
3341 9.4 115825.0 -0712.5  
3342 9.1 115826.3 -0720.1  
3343 9.3 115847.5 -0725.2  
3344 9.5 115918.5 -0705.1  
3345 7.0 120022.4 -0740.9  
3346 9.7 120028.2 -0717.6  
3347 9.5 120033.1 -0743.2  
3348 9.3 120054.9 -0752.4  
  
3349 9.3 120112.5 -0718.6  
3350 9.8 120117.2 -0724.1  
3351 9.5 120130.0 -0759.2  
3352 9.4 120152.1 -0749.2  
3353 9.8 120159.9 -0707.8  
3354 9.0 120213.1 -0745.5  
3355 9.7 120232.1 -0702.2  
3356 9.2 120254.3 -0759.4  
3357 9.7 120255.2 -0715.1  
3358 9.4 120303.4 -0727.9  
  
3359 9.5 120340.9 -0742.6  
3360 8.7 120352.0 -0704.9  
3361 9.5 120402.1 -0711.0  
3362 9.5 120405.8 -0745.9  
3363 9.7 120452.0 -0711.8  
3364 9.4 120513.9 -0746.2  
3365 9.5 120523.6 -0707.9  
3366 9.5 120547.3 -0727.9  
3367 8.5 120610.2 -0729.7  
3368 9.0 120621.7 -0718.9  
  
3369 9.5 120629.1 -0716.1  
3370 8.9 120650.3 -0746.5  
3371 9.1 120654.8 -0758.9  
3372 9.8 120700.6 -0726.0  
3373 8.5 120729.8 -0748.7  
3374 8.9 120747.2 -0739.3  
3375 9.5 120809.2 -0721.9  
3376 9.0 120815.8 -0746.3  
3377 9.0 120826.9 -0710.6  
3378 9.5 120854.7 -0727.0  
  
3379 10. 120855.0 -0706.3  
3380 9.3 120915.2 -0732.2  
3381 9.8 120924.8 -0738.0  
3382 9.6 120949.1 -0700.7  
3383 9.5 121004.8 -0758.4  
3384 8.7 121009.4 -0735.1  
3385 9.1 121018.1 -0722.6  
3386 9.6 121112.6 -0709.6  
3387 9.4 121213.6 -0731.8  
3388 8.5 121237.4 -0719.5  
  
3389 9.5 121241.3 -0754.3  
3390 9.3 121248.5 -0700.9  
3391 9.5 121254.1 -0734.5  
3392 9.5 121302.3 -0740.8  
3393 9.4 121332.2 -0714.6  
3394 9.5 121407.6 -0734.9  
3395 9.0 121416.0 -0706.5  
3396 9.4 121423.9 -0704.3  
3397 9.5 121429.4 -0753.0  
3398 8.5 121436.7 -0745.0  
  
3399 9.5 121444.2 -0748.1  
3400 9.1 121511.0 -0725.6  
3401 8.6 121628.0 -0734.1  
3402 9.5 121650.3 -0742.3  
3403 9.5 121744.2 -0719.8  
3404 9.1 121806.8 -0729.5  
3405 9.5 121808.1 -0745.1  
3406 9.0 121922.8 -0749.3  
3407 9.5 121944.9 -0708.6  
3408 9.3 121948.4 -0713.9

-07 3498 12h44m

3409 6.3 122027.7 -0752.4  
3410 9.3 122042.8 -0720.7  
3411 9.0 122110.0 -0728.4  
3412 9.5 122131.4 -0708.9  
3413 9.3 122148.1 -0748.8  
3414 9.5 122222.8 -0712.0  
3415 9.4 122240.3 -0700.4  
3416 9.4 122240.9 -0723.8  
3417 9.2 122244.8 -0721.9  
3418 9.1 122313.7 -0714.2  
  
3419 9.5 122343.1 -0742.5  
3420 8.8 122358.3 -0721.6  
3421 9.2 122404.0 -0751.8  
3422 9.2 122407.5 -0743.3  
3423 8.3 122433.0 -0748.4  
3424 9.5 122451.9 -0716.1  
3425 9.3 122515.6 -0750.9  
3426 9.5 122527.5 -0752.6  
3427 9.1 122536.7 -0739.5  
3428 9.2 122544.8 -0723.6  
  
3429 9.4 122601.9 -0718.4  
3430 9.3 122621.8 -0739.5  
3431 9.4 122630.0 -0740.8  
3432 9.5 122633.3 -0704.3  
3433 9.2 122634.9 -0708.1  
3434 9.1 122703.4 -0735.5  
3435 9.0 122712.3 -0715.5  
3436 9.8 122749.4 -0733.4  
3437 10. 122750.0 -0725.2  
3438 9.8 122803.2 -0758.8  
  
3439 9.7 122809.5 -0749.5  
3440 8.8 122813.4 -0730.7  
3441 9.4 122825.7 -0721.8  
3442 9.4 122845.3 -0730.4  
3443 7.3 122953.1 -0729.7  
3444 9.4 122953.4 -0748.0  
3445 9.4 123029.9 -0749.4  
3446 9.1 123039.8 -0727.7  
3447 9.5 123114.3 -0735.2  
3448 9.0 123120.7 -0758.8  
  
3449 9.5 123131.6 -0721.5  
3450 9.5 123134.9 -0729.3  
3451 8.8 123135.2 -0707.0  
3452 5.0 123145.9 -0711.7  
3453 9.5 123152.0 -0704.8  
3454 8.8 123154.4 -0713.6  
3455 9.5 123201.6 -0730.4  
3456 9.5 123246.9 -0749.2  
3457 9.7 123256.7 -0702.3  
3458 7.5 123311.9 -0738.8  
  
3459 9.4 123319.3 -0700.8  
3460 10. 123327.9 -0748.3  
3461 9.3 123329.2 -0759.2  
3462 9.2 123331.0 -0757.8  
3463 8.9 123349.0 -0758.8  
3464 10. 123351.7 -0717.7  
3465 9.3 123425.1 -0701.3  
3466 9.7 123439.6 -0702.5  
3467 8.8 123535.6 -0748.7  
3468 9.6 123542.5 -0742.0  
  
3469 9.5 123550.6 -0750.6  
3470 9.7 123608.2 -0754.8  
3471 9.4 123613.6 -0741.6  
3472 10. 123618.4 -0740.9  
3473 9.9 123624.0 -0743.9  
3474 8.6 123636.8 -0728.5  
3475 10. 123640.2 -0727.1  
3476 8.8 123643.6 -0703.7  
3477 9.4 123650.3 -0752.8  
3478 7.3 123729.8 -0744.0  
  
3479 9.3 123749.5 -0714.6  
3480 8.5 123758.4 -0753.1  
3481 9.1 123812.2 -0701.0  
3482 9.3 123846.1 -0704.8  
3483 9.5 123853.1 -0704.1  
3484 9.6 123903.8 -0742.9  
3485 9.5 123932.3 -0750.2  
3486 9.5 124022.6 -0731.0  
3487 9.5 124036.8 -0750.2  
3488 8.8 124059.2 -0715.1  
  
3489 10. 124109.4 -0712.8  
3490 9.4 124130.8 -0752.2  
3491 9.5 124152.3 -0752.9  
3492 9.8 124250.0 -0710.9  
3493 9.5 124319.7 -0746.8  
3494 9.5 124342.2 -0734.9  
3495 10. 124358.0 -0711.3  
3496 9.3 124414.4 -0756.2  
3497 8.4 124432.5 -0743.7  
3498 10. 124456.3 -0700.1



|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-------|----------|---------|
| 3509 | 10. | 124505.6 | -0737.5 | 3589 | 9.7 | 131143.2 | -0706.2 | 3679 | 9.5 | 133542.8 | -0717.0 | 3769 | 9.2   | 135926.1 | -0759.5 |
| 3500 | 9.4 | 124510.9 | -0721.2 | 3590 | 9.6 | 131202.7 | -0743.9 | 3680 | 9.5 | 133552.1 | -0735.3 | 3770 | 8.0   | 135929.7 | -0745.0 |
| 3501 | 8.4 | 124514.0 | -0755.1 | 3591 | 9.8 | 131219.8 | -0710.4 | 3681 | 9.1 | 133552.8 | -0726.4 | 3771 | 9.1   | 135938.6 | -0725.5 |
| 3502 | 9.4 | 124530.5 | -0709.8 | 3592 | 9.4 | 131251.7 | -0710.7 | 3682 | 9.0 | 133608.4 | -0716.8 | 3772 | 9.4   | 135944.9 | -0702.5 |
| 3503 | 8.0 | 124605.9 | -0702.8 | 3593 | 8.7 | 131305.8 | -0758.6 | 3683 | 9.5 | 133623.1 | -0710.5 | 3773 | 10.   | 140031.3 | -0708.0 |
| 3504 | 8.8 | 124610.3 | -0757.1 | 3594 | 9.5 | 131315.5 | -0728.8 | 3684 | 9.0 | 133626.4 | -0701.9 | 3774 | 9.5   | 140032.8 | -0749.0 |
| 3505 | 9.1 | 124639.7 | -0720.2 | 3595 | 9.5 | 131317.3 | -0708.1 | 3685 | 8.5 | 133635.0 | -0745.3 | 3775 | 9.5   | 140102.0 | -0737.5 |
| 3506 | 9.5 | 124715.5 | -0719.2 | 3596 | 9.0 | 131322.4 | -0721.5 | 3686 | 9.8 | 133702.8 | -0749.1 | 3776 | 9.5   | 140111.6 | -0732.0 |
| 3507 | 9.5 | 124724.2 | -0745.1 | 3597 | 9.7 | 131358.4 | -0757.6 | 3687 | 9.5 | 133703.2 | -0704.0 | 3777 | 9.5   | 140122.1 | -0736.2 |
| 3508 | 9.1 | 124740.7 | -0750.8 | 3598 | 9.8 | 131414.8 | -0722.1 | 3688 | 10. | 133730.8 | -0719.4 | 3778 | 8.5   | 140124.7 | -0719.1 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
| 3509 | 8.9 | 124804.4 | -0756.2 | 3599 | 8.5 | 131444.1 | -0756.0 | 3689 | 10. | 133757.8 | -0719.0 | 3779 | 8.9   | 140205.0 | -0708.0 |
| 3510 | 9.1 | 124816.9 | -0724.2 | 3600 | 9.4 | 131455.0 | -0755.4 | 3690 | 9.8 | 133800.3 | -0703.3 | 3780 | 10.   | 140209.6 | -0705.5 |
| 3511 | 10. | 124842.2 | -0723.9 | 3601 | 9.4 | 131517.7 | -0718.9 | 3691 | 9.8 | 133813.2 | -0724.2 | 3781 | 9.5   | 140219.5 | -0726.8 |
| 3512 | 9.1 | 124852.3 | -0742.7 | 3602 | 9.3 | 131533.3 | -0706.2 | 3692 | 9.9 | 133814.4 | -0715.2 | 3782 | 8.7   | 140225.2 | -0741.3 |
| 3513 | 9.5 | 124900.6 | -0724.4 | 3603 | 9.7 | 131539.2 | -0719.6 | 3693 | 9.9 | 133818.0 | -0734.7 | 3783 | 10.   | 140235.5 | -0714.2 |
| 3514 | 9.3 | 125009.6 | -0750.5 | 3604 | 9.4 | 131545.7 | -0758.5 | 3694 | 8.5 | 133818.0 | -0738.0 | 3784 | 9.5   | 140249.9 | -0733.8 |
| 3515 | 7.7 | 125128.6 | -0757.0 | 3605 | 10. | 131550.0 | -0714.7 | 3695 | 9.5 | 133819.2 | -0723.0 | 3785 | 9.3   | 140310.4 | -0757.0 |
| 3516 | 9.5 | 125133.9 | -0706.5 | 3606 | 9.2 | 131553.2 | -0755.1 | 3696 | 9.6 | 133830.7 | -0731.5 | 3786 | 9.4   | 140329.5 | -0722.8 |
| 3517 | 9.0 | 125137.1 | -0746.7 | 3607 | 9.0 | 131611.6 | -0744.7 | 3697 | 9.3 | 133843.7 | -0759.3 | 3787 | 10.   | 140331.9 | -0732.4 |
| 3518 | 9.5 | 125224.9 | -0707.1 | 3608 | 9.3 | 131617.0 | -0723.5 | 3698 | 8.8 | 133843.9 | -0742.8 | 3788 | 9.2   | 140346.2 | -0702.3 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
| 3519 | 9.8 | 125234.5 | -0721.3 | 3609 | 9.8 | 131643.8 | -0707.2 | 3699 | 10. | 133849.0 | -0739.9 | 3789 | 9.3   | 140406.3 | -0753.0 |
| 3520 | 9.4 | 125245.3 | -0752.0 | 3610 | 9.6 | 131645.1 | -0723.5 | 3700 | 8.5 | 133944.0 | -0746.4 | 3790 | 9.1   | 140452.1 | -0732.7 |
| 3521 | 8.9 | 125252.1 | -0751.6 | 3611 | 9.8 | 131707.9 | -0724.6 | 3701 | 9.8 | 133954.1 | -0754.5 | 3791 | 10.   | 140516.7 | -0728.1 |
| 3522 | 8.9 | 125257.2 | -0750.9 | 3612 | 9.7 | 131722.1 | -0724.8 | 3702 | 9.0 | 133957.0 | -0745.3 | 3792 | 10.   | 140523.7 | -0755.7 |
| 3523 | 9.1 | 125301.9 | -0712.2 | 3613 | 10. | 131806.9 | -0735.3 | 3703 | 10. | 134004.7 | -0715.4 | 3793 | 8.2   | 140536.8 | -0759.4 |
| 3524 | 9.4 | 125323.4 | -0702.5 | 3614 | 9.0 | 131827.9 | -0747.1 | 3704 | 8.0 | 134026.4 | -0717.7 | 3794 | 7.0   | 140538.7 | -0745.8 |
| 3525 | 8.5 | 125351.2 | -0738.9 | 3615 | 9.6 | 131836.7 | -0730.1 | 3705 | 9.6 | 134103.6 | -0758.7 | 3795 | 9.5   | 140553.8 | -0738.1 |
| 3526 | 9.4 | 125421.0 | -0748.1 | 3616 | 10. | 131928.5 | -0747.2 | 3706 | 8.0 | 134112.3 | -0728.1 | 3796 | 10.   | 140600.9 | -0743.4 |
| 3527 | 9.8 | 125431.5 | -0749.2 | 3617 | 9.6 | 131941.4 | -0758.9 | 3707 | 10. | 134117.3 | -0710.8 | 3797 | 10.   | 140605.1 | -0751.4 |
| 3528 | 9.2 | 125452.5 | -0718.8 | 3618 | 9.0 | 131953.2 | -0753.0 | 3708 | 9.0 | 134156.3 | -0732.1 | 3798 | 9.5   | 140622.8 | -0750.6 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
| 3529 | 9.4 | 125458.9 | -0711.7 | 3619 | 9.4 | 132007.1 | -0707.1 | 3709 | 9.4 | 134217.1 | -0712.3 | 3799 | 8.5   | 140628.3 | -0750.6 |
| 3530 | 9.8 | 125536.3 | -0726.5 | 3620 | 9.8 | 132019.2 | -0704.7 | 3710 | 9.2 | 134225.9 | -0703.7 | 3800 | 9.3   | 140640.2 | -0708.8 |
| 3531 | 9.0 | 125532.6 | -0708.5 | 3621 | 9.5 | 132022.9 | -0724.3 | 3711 | 9.0 | 134301.2 | -0724.5 | 3801 | 9.4   | 140642.8 | -0757.7 |
| 3532 | 9.4 | 125540.1 | -0749.9 | 3622 | 9.2 | 132046.3 | -0748.4 | 3712 | 7.0 | 134313.9 | -0703.4 | 3802 | 9.7   | 140732.3 | -0701.8 |
| 3533 | 9.1 | 125549.9 | -0731.5 | 3623 | 9.5 | 132126.1 | -0740.8 | 3713 | 9.7 | 134314.7 | -0717.0 | 3803 | 9.8   | 140732.9 | -0716.7 |
| 3534 | 9.5 | 125600.8 | -0749.4 | 3624 | 10. | 132128.0 | -0717.3 | 3714 | 9.5 | 134347.6 | -0738.0 | 3804 | 9.8   | 140746.7 | -0705.5 |
| 3535 | 9.5 | 125608.9 | -0743.3 | 3625 | 10. | 132146.0 | -0709.7 | 3715 | 9.7 | 134409.6 | -0759.9 | 3805 | 9.0   | 140808.5 | -0741.1 |
| 3536 | 9.7 | 125629.2 | -0711.0 | 3626 | 10. | 132155.2 | -0726.6 | 3716 | 8.8 | 134443.3 | -0709.0 | 3806 | 9.6   | 140843.3 | -0745.7 |
| 3537 | 9.5 | 125633.8 | -0717.5 | 3627 | 9.8 | 132156.7 | -0712.7 | 3717 | 10. | 134445.5 | -0706.0 | 3807 | 9.3   | 140916.6 | -0702.4 |
| 3538 | 8.3 | 125646.2 | -0745.0 | 3628 | 9.8 | 132215.9 | -0707.4 | 3718 | 9.5 | 134502.9 | -0736.2 | 3808 | 9.5   | 140931.1 | -0743.2 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
| 3539 | 9.4 | 125713.5 | -0745.0 | 3629 | 9.3 | 132235.5 | -0755.8 | 3719 | 8.5 | 134523.0 | -0700.8 | 3809 | 9.5   | 140939.7 | -0730.5 |
| 3540 | 7.8 | 125714.5 | -0747.2 | 3630 | 10. | 132238.8 | -0750.7 | 3720 | 9.8 | 134537.1 | -0759.2 | 3810 | 9.3   | 140950.9 | -0731.0 |
| 3541 | 9.4 | 125717.3 | -0725.3 | 3631 | 9.1 | 132242.8 | -0750.5 | 3721 | 8.9 | 134539.1 | -0723.0 | 3811 | 9.0   | 141009.6 | -0743.5 |
| 3542 | 8.5 | 125748.7 | -0722.0 | 3632 | 9.5 | 132248.0 | -0748.3 | 3722 | 9.6 | 134543.6 | -0727.4 | 3812 | 9.3   | 141010.1 | -0728.4 |
| 3543 | 9.4 | 125809.4 | -0730.2 | 3633 | 8.1 | 132319.2 | -0706.7 | 3723 | 8.0 | 134616.4 | -0746.0 | 3813 | 7.2   | 141019.2 | -0717.3 |
| 3544 | 10. | 125817.2 | -0714.9 | 3634 | 9.7 | 132336.9 | -0758.8 | 3724 | 9.9 | 134618.3 | -0702.7 | 3814 | 10.   | 141035.6 | -0719.2 |
| 3545 | 8.5 | 125824.2 | -0754.8 | 3635 | 8.2 | 132355.6 | -0715.2 | 3725 | 9.6 | 134620.6 | -0727.1 | 3815 | 9.6   | 141046.3 | -0724.3 |
| 3546 | 10. | 125844.2 | -0753.9 | 3636 | 9.9 | 132413.1 | -0714.8 | 3726 | 9.5 | 134706.8 | -0704.7 | 3816 | 10.   | 141057.2 | -0758.5 |
| 3547 | 9.4 | 125832.0 | -0748.2 | 3637 | 9.5 | 132442.7 | -0719.5 | 3727 | 9.5 | 134709.8 | -0726.8 | 3817 | 10.   | 141125.1 | -0714.7 |
| 3548 | 8.7 | 125838.4 | -0738.8 | 3638 | 9.2 | 132443.9 | -0717.7 | 3728 | 6.0 | 134722.6 | -0721.1 | 3818 | 8.6   | 141140.0 | -0710.7 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
| 3549 | 9.1 | 125859.1 | -0742.4 | 3639 | 7.0 | 132537.0 | -0742.0 | 3729 | 9.3 | 134724.2 | -0758.0 | 3819 | 10.   | 141142.1 | -0750.2 |
| 3550 | 3.9 | 125908.8 | -0702.8 | 3640 | 9.8 | 132541.6 | -0707.4 | 3730 | 9.6 | 134730.5 | -0754.8 | 3820 | 9.4   | 141146.2 | -0746.5 |
| 3551 | 8.8 | 125926.0 | -0715.6 | 3641 | 9.6 | 132544.8 | -0725.5 | 3731 | 9.0 | 134749.0 | -0710.9 | 3821 | 9.8   | 141157.1 | -0712.3 |
| 3552 | 8.5 | 130132.8 | -0743.7 | 3642 | 7.5 | 132552.0 | -0741.3 | 3732 | 9.5 | 134815.9 | -0737.4 | 3822 | 8.4   | 141222.0 | -0725.3 |
| 3553 | 8.2 | 130104.1 | -0700.1 | 3643 | 7.0 | 132642.2 | -0752.5 | 3733 | 10. | 134817.4 | -0730.2 | 3823 | 9.8   | 141329.1 | -0700.9 |
| 3554 | 9.5 | 130236.7 | -0728.9 | 3644 | 9.4 | 132655.7 | -0750.9 | 3734 | 10. | 134837.0 | -0737.8 | 3824 | 10.   | 141344.6 | -0727.3 |
| 3555 | 9.0 | 130246.3 | -0749.7 | 3645 | 9.5 | 132703.2 | -0758.2 | 3735 | 9.3 | 134851.5 | -0713.8 | 3825 | 9.5   | 141352.7 | -0731.4 |
| 3556 | 9.5 | 130300.5 | -0719.5 | 3646 | 9.0 | 132709.0 | -0735.9 | 3736 | 8.8 | 134854.4 | -0751.0 | 3826 | 10.   | 141359.5 | -0735.3 |
| 3557 | 9.5 | 130344.2 | -0738.4 | 3647 | 8.8 | 132711.2 | -0716.4 | 3737 | 9.7 | 134908.9 | -0756.1 | 3827 | 9.6   | 141405.5 | -0724.0 |
| 3558 | 8.9 | 130346.7 | -0720.8 | 3648 | 10. | 132714.3 | -0741.1 | 3738 | 9.4 | 134916.3 | -0720.2 | 3828 | 10.   | 141407.6 | -0755.8 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |       |          |         |
| 3559 | 9.0 | 130349.7 | -0702.0 | 3649 | 9.5 | 132723.0 | -0723.7 | 3739 | 9.9 | 135005.4 | -0704.3 | 3829 | 9.4   | 141411.5 | -0706.2 |
| 3560 | 9.0 | 130433.1 | -0722.7 | 3650 | 9.5 | 132735.6 | -0704.3 | 3740 | 9.5 | 135030.8 | -0727.4 | 3830 | 10.   | 141411.5 | -0728.6 |
| 3561 | 9.3 | 130434.6 | -0721.5 | 3651 | 9.8 | 132741.1 | -0757.8 | 3741 | 9.3 | 135043.0 | -0702.4 | 3831 | 7.3   | 141421.3 | -0725.4 |
| 3562 | 8.8 | 130445.2 | -0742.2 | 3652 | 8.8 | 132823.2 | -0705.1 | 3742 | 9.2 | 135044.4 | -0735.1 | 3832 | 10.   | 141447.5 | -0715.2 |
| 3563 | 8.8 | 130453.0 | -0732.5 | 3653 | 10. | 132831.6 | -0750.4 | 3743 | 9.8 | 135116.4 | -0707.6 | 3833 | 9.2   | 141455.6 | -0702.7 |
| 3564 | 9.3 | 130513.5 | -0756.1 | 3654 | 9.0 | 132835.8 | -0721.6 | 3744 | 9.8 | 135123.3 | -0702.2 | 3834 | 7.0   | 141458.5 | -0706.1 |
| 3565 | 9.4 | 130514.4 | -0757.1 | 3655 | 9.2 | 132851.9 | -0759.5 | 3745 | 9.6 | 135144.3 | -0746.2 | 3835 | 9.1</ |          |         |



-07 3859 14h23m

3859 9.8 142354.3 -0742.8  
3860 9.5 142405.2 -0731.6  
3861 9.5 142434.9 -0747.6  
3862 9.1 142435.1 -0723.9  
3863 8.6 142441.0 -0749.5  
3864 9.7 142442.0 -0702.4  
3865 9.6 142447.9 -0716.7  
3866 9.4 142538.5 -0749.8  
3867 9.5 142622.8 -0709.1  
3868 9.9 142649.5 -0710.0

3869 10. 142651.8 -0707.0  
3870 9.5 142719.7 -0746.0  
3871 9.1 142743.6 -0743.6  
3872 9.2 142753.8 -0725.6  
3873 8.8 142803.1 -0704.7  
3874 7.0 142804.8 -0756.2  
3875 9.4 142827.8 -0751.4  
3876 8.7 142855.1 -0746.3  
3877 9.1 142930.6 -0743.8  
3878 10. 142904.2 -0755.0

3879 9.1 143030.1 -0741.0  
3880 9.7 143106.1 -0700.2  
3881 9.3 143221.3 -0720.6  
3882 9.5 143244.6 -0701.3  
3883 9.4 143255.4 -0732.6  
3884 8.8 143308.2 -0716.6  
3885 9.8 143324.0 -0706.9  
3886 9.8 143325.5 -0702.2  
3887 9.5 143341.6 -0720.3  
3888 8.8 143342.4 -0702.2

3889 9.3 143405.0 -0735.8  
3890 9.7 143415.1 -0756.3  
3891 9.6 143421.1 -0736.9  
3892 9.5 143503.0 -0700.0  
3893 9.8 143514.9 -0737.2  
3894 9.2 143519.7 -0745.7  
3895 9.5 143603.9 -0741.8  
3896 9.5 143630.1 -0736.9  
3897 6.5 143632.6 -0738.2  
3898 9.8 143638.7 -0750.9

3899 9.4 143737.2 -0708.4  
3900 9.0 143739.1 -0750.5  
3901 9.4 143743.8 -0755.3  
3902 9.5 143829.0 -0745.2  
3903 7.1 143831.1 -0711.1  
3904 10. 143835.0 -0706.5  
3905 9.3 143903.9 -0732.6  
3906 9.4 144024.9 -0714.2  
3907 9.9 144127.6 -0701.2  
3908 9.0 144132.9 -0746.2

3909 6.8 144141.5 -0753.7  
3910 9.8 144227.7 -0756.6  
3911 9.0 144232.8 -0715.8  
3912 8.0 144259.8 -0737.4  
3913 9.4 144315.8 -0732.7  
3914 9.4 144434.9 -0745.4  
3915 9.6 144445.8 -0750.7  
3916 9.2 144457.2 -0741.8  
3917 8.3 144507.8 -0741.6  
3918 9.8 144540.6 -0716.3

3919 9.8 144603.0 -0707.2  
3920 9.8 144638.5 -0750.3  
3921 7.5 144644.5 -0747.7  
3922 8.6 144704.0 -0733.1  
3923 9.4 144714.8 -0748.0  
3924 9.5 144722.6 -0717.9  
3925 9.1 144724.7 -0708.3  
3926 8.8 144731.4 -0731.7  
3927 9.5 144814.6 -0705.1  
3928 9.2 144824.2 -0724.8

3929 9.8 144922.6 -0703.1  
3930 9.3 145011.7 -0738.0  
3931 8.6 145039.1 -0758.5  
3932 9.8 145100.5 -0712.3  
3933 9.1 145117.2 -0742.3  
3934 9.7 145206.4 -0724.8  
3935 9.5 145233.3 -0752.6  
3936 9.3 145247.7 -0719.8  
3937 9.7 145302.7 -0720.1  
3938 10.0 145313.5 -0756.4

3939 9.5 145343.1 -0752.6  
3940 9.0 145353.6 -0752.8  
3941 9.8 145359.8 -0702.0  
3942 10. 145406.2 -0731.5  
3943 7.0 145419.5 -0745.9  
3944 6.5 145426.1 -0700.0  
3945 9.7 145433.8 -0703.4  
3946 7.1 145446.8 -0715.6  
3947 9.8 145603.5 -0744.8  
3948 9.8 145617.0 -0727.8

3949 9.6 145624.3 -0759.0  
3950 10. 145628.6 -0712.3  
3951 9.0 145634.5 -0742.0  
3952 9.5 145641.5 -0744.1  
3953 7.7 145644.4 -0728.7  
3954 9.7 145706.0 -0756.9  
3955 9.0 145706.2 -0727.7  
3956 9.5 145753.5 -0747.3  
3957 9.0 145850.0 -0741.6  
3958 9.2 145917.8 -0701.3

3959 9.9 145937.8 -0740.3  
3960 9.8 145941.0 -0737.7  
3961 9.5 145956.4 -0711.7  
3962 9.3 145959.3 -0719.7  
3963 8.0 150029.8 -0720.2  
3964 9.8 150030.9 -0738.3  
3965 9.0 150131.5 -0741.7  
3966 9.5 150137.6 -0734.8  
3967 9.5 150150.4 -0731.3  
3968 8.6 150152.0 -0718.8

3969 9.5 150154.2 -0741.2  
3970 10. 150212.7 -0720.6  
3971 9.2 150213.7 -0724.7  
3972 9.0 150230.1 -0728.5  
3973 9.4 150405.4 -0718.3  
3974 8.5 150415.3 -0729.2  
3975 9.5 150430.8 -0758.7  
3976 9.5 150441.9 -0747.7  
3977 9.6 150456.4 -0750.3  
3978 9.0 150459.1 -0733.7

3979 9.2 150523.5 -0720.0  
3980 9.1 150542.9 -0727.4  
3981 9.0 150602.5 -0759.8  
3982 8.6 150618.4 -0730.7  
3983 9.4 150630.8 -0759.8  
3984 9.5 150645.5 -0722.1  
3985 8.5 150648.4 -0740.2  
3986 9.8 150725.9 -0722.8  
3987 9.2 150740.7 -0717.4  
3988 10. 150758.9 -0732.0

3989 9.9 150800.3 -0735.3  
3990 9.5 150842.3 -0752.3  
3991 9.4 150847.4 -0740.2  
3992 7.5 150908.3 -0744.1  
3993 9.1 150921.7 -0720.9  
3994 7.5 150928.7 -0719.2  
3995 9.7 150934.2 -0736.7  
3996 9.8 150957.3 -0742.3  
3997 9.8 151014.8 -0729.4  
3998 9.5 151019.7 -0719.0

3999 7.3 151048.8 -0751.9  
4000 9.3 151050.7 -0733.4  
4001 8.5 151114.2 -0722.5  
4002 10. 151140.3 -0729.8  
4003 9.8 151152.7 -0711.3  
4004 9.2 151245.2 -0733.0  
4005 9.2 151335.6 -0714.4  
4006 9.8 151400.3 -0743.7  
4007 9.0 151421.8 -0743.6  
4008 9.4 151435.5 -0731.2

4009 9.3 151437.2 -0717.4  
4010 9.8 151451.6 -0740.7  
4011 9.3 151500.0 -0716.3  
4012 9.0 151509.0 -0754.8  
4013 9.3 151536.8 -0721.6  
4014 9.4 151608.0 -0737.2  
4015 8.7 151628.2 -0758.1  
4016 9.9 151639.1 -0745.9  
4017 9.6 151639.5 -0735.0  
4018 9.1 151712.6 -0749.6

4019 9.3 151717.0 -0736.3  
4020 9.7 151751.1 -0758.6  
4021 9.7 151807.6 -0759.8  
4022 9.2 151838.0 -0749.8  
4023 9.7 151848.6 -0704.8  
4024 9.1 151912.9 -0739.3  
4025 9.3 151916.6 -0706.8  
4026 9.1 151916.7 -0730.7  
4027 9.6 151930.9 -0726.9  
4028 9.1 151932.5 -0738.2

4029 9.5 151952.5 -0747.3  
4030 8.0 152022.7 -0730.7  
4031 9.8 152040.0 -0744.0  
4032 10. 152050.0 -0733.2  
4033 10. 152123.9 -0729.0  
4034 8.7 152125.7 -0714.6  
4035 10. 152152.5 -0756.6  
4036 9.4 152223.6 -0708.5  
4037 8.5 152228.6 -0733.0  
4038 9.9 152235.4 -0742.9

4039 9.1 152305.4 -0715.5  
4040 10. 152333.2 -0749.8  
4041 9.5 152335.8 -0719.8  
4042 9.3 152348.1 -0716.3  
4043 9.4 152359.1 -0705.2  
4044 8.7 152409.2 -0756.5  
4045 10. 152452.0 -0739.5  
4046 9.5 152511.6 -0754.6  
4047 8.0 152519.4 -0735.1  
4048 9.8 152542.0 -0734.1

4049 9.2 152552.4 -0733.9  
4050 9.4 152557.1 -0741.9  
4051 10. 152623.9 -0717.4  
4052 9.2 152629.8 -0757.6  
4053 9.5 152637.0 -0733.4  
4054 8.0 152656.5 -0737.5  
4055 8.2 152711.9 -0733.0  
4056 7.7 152818.4 -0703.7  
4057 9.8 152828.0 -0741.6  
4058 9.0 152829.5 -0714.0

4059 8.5 152836.8 -0724.6  
4060 10. 152851.9 -0711.2  
4061 9.8 152905.4 -0751.5  
4062 8.2 152910.0 -0717.8  
4063 9.5 152910.4 -0739.6  
4064 9.0 152912.4 -0742.3  
4065 9.0 152941.8 -0705.9  
4066 10. 153008.4 -0737.8  
4067 10. 153008.8 -0745.7  
4068 9.7 153016.4 -0732.7

4069 8.0 153019.5 -0711.3  
4070 9.8 153029.3 -0722.1  
4071 9.7 153049.3 -0717.1  
4072 9.8 153128.3 -0723.0  
4073 9.3 153149.4 -0744.8  
4074 9.6 153159.2 -0701.2  
4075 10. 153224.1 -0756.4  
4076 9.5 153230.3 -0729.4  
4077 9.8 153353.4 -0751.4  
4078 9.2 153359.1 -0735.2

4079 9.9 153418.8 -0725.6  
4080 9.6 153420.7 -0712.4  
4081 9.6 153424.9 -0724.8  
4082 8.3 153427.7 -0726.9  
4083 8.3 153432.9 -0711.3  
4084 9.0 153437.4 -0729.0  
4085 9.5 153452.0 -0722.1  
4086 9.5 153515.5 -0700.4  
4087 9.6 153516.3 -0726.7  
4088 9.0 153534.9 -0740.8

4089 9.8 153555.0 -0706.7  
4090 9.5 153556.6 -0724.2  
4091 10. 153625.8 -0711.3  
4092 9.1 153644.9 -0735.7  
4093 10. 153706.4 -0748.6  
4094 8.9 153725.0 -0721.3  
4095 9.3 153758.5 -0708.1  
4096 9.3 153814.7 -0756.4  
4097 8.7 153842.3 -0745.1  
4098 9.4 153852.1 -0758.2

4099 9.8 153859.6 -0701.5  
4100 9.0 153917.0 -0700.8  
4101 7.7 153926.5 -0759.9  
4102 10. 153941.7 -0709.5  
4103 9.0 153956.9 -0725.8  
4104 9.9 154013.4 -0755.0  
4105 9.3 154039.6 -0714.6  
4106 9.6 154043.3 -0713.1  
4107 9.5 154054.1 -0758.3  
4108 8.9 154054.2 -0714.9

4109 9.7 154056.1 -0716.9  
4110 9.3 154107.8 -0731.6  
4111 9.3 154113.3 -0729.2  
4112 9.1 154144.8 -0745.2  
4113 9.5 154201.1 -0732.3  
4114 9.3 154217.7 -0727.2  
4115 9.4 154227.3 -0723.2  
4116 9.8 154248.7 -0730.6  
4117 9.5 154300.8 -0739.2  
4118 7.3 154401.3 -0735.9

4119 8.4 154404.7 -0757.1  
4120 9.5 154406.0 -0706.0  
4121 9.4 154408.0 -0703.8  
4122 9.1 154427.9 -0703.4  
4123 9.0 154435.3 -0747.1  
4124 9.3 154446.2 -0724.8  
4125 9.7 154508.1 -0759.7  
4126 10. 154510.2 -0730.4  
4127 9.5 154515.8 -0746.9  
4128 8.2 154525.5 -0712.9

-07 4218 16h02m

4129 9.5 154543.5 -0710.6  
4130 8.5 154546.9 -0702.0  
4131 8.2 154559.8 -0751.0  
4132 8.9 154626.7 -0732.9  
4133 9.3 154644.8 -0740.7  
4134 9.2 154651.1 -0702.6  
4135 9.7 154658.1 -0759.6  
4136 9.5 154704.7 -0742.0  
4137 10. 154709.8 -0732.2  
4138 9.4 154805.0 -0751.4

4139 9.6 154827.4 -0755.6  
4140 9.5 154843.2 -0711.1  
4141 9.5 154905.5 -0702.2  
4142 10. 154913.7 -0725.5  
4143 9.5 154940.1 -0726.1  
4144 9.5 154941.6 -0727.2  
4145 9.4 154945.0 -0748.8  
4146 9.8 154948.2 -0739.2  
4147 10. 154952.6 -0717.0  
4148 9.8 155007.6 -0710.9

4149 8.7 155034.2 -0715.1  
4150 9.0 155046.7 -0732.6  
4151 9.9 155049.9 -0719.0  
4152 9.8 155100.7 -0755.5  
4153 10. 155127.1 -0752.5  
4154 9.8 155147.6 -0712.3  
4155 9.3 155200.7 -0700.6  
4156 9.4 155202.3 -0750.0  
4157 8.7 155205.1 -0728.4  
4158 8.5 155234.3 -0747.2

4159 8.0 155235.3 -0723.9  
4160 9.2 155238.2 -0715.1  
4161 9.1 155242.8 -0744.4  
4162 5.4 155258.0 -0759.6  
4163 10. 155300.6 -0713.6  
4164 10. 155301.5 -0742.6  
4165 9.9 155336.0 -0700.2  
4166 9.8 155402.2 -0702.9  
4167 10. 155424.7 -0736.4  
4168 10. 155440.5 -0700.6

4169 9.3 155451.7 -0758.9  
4170 9.5 155454.9 -0702.5  
4171 9.5 155500.1 -0746.1  
4172 9.8 155508.6 -0729.3  
4173 9.8 155509.7 -0731.4  
4174 7.5 155510.7 -0738.3  
4175 9.8 155515.2 -0734.2  
4176 9.4 155516.3 -0743.7  
4177 9.8 155536.1 -0754.4  
4178 9.8 155544.2 -0746.8

4179 9.8 155548.1 -0724.3  
4180 10. 155559.6 -0730.3  
4181 9.5 155642.2 -0738.5  
4182 9.1 155715.9 -0700.7  
4183 9.8 155720.9 -0712.4  
4184 9.0 155725.7 -0759.5  
4185 9.8 155803.5 -0707.2  
4186 9.4 155823.3 -0758.6  
4187 10. 155829.6 -0715.7  
4188 9.5 155837.0 -0726.2

4189 9.0 155906.1 -0735.4  
4190 9.0 155909.0 -0718.1  
4191 8.9 155909.4 -0709.4  
4192 9.8 155917.4 -0704.7  
4193 9.5 155926.0 -0710.0  
4194 8.7 155928.8 -0718.1  
4195 9.0 155932.7 -0746.9  
4196 9.5 155936.9 -0701.6  
4197 9.4 155937.6 -0739.1  
4198 7.8 155954.8 -0734.0

4199 8.2 155957.6 -0755.6  
4200 9.6 160007.2 -0743.2  
4201 9.6 160010.1 -0723.7  
4202 9.8 160038.6 -0755.3  
4203 9.8 160105.5 -0724.3  
4204 9.4 160109.9 -0737.6  
4205 7.5 160111.2 -0749.6  
4206 9.1 160120.6 -0728.5  
4207 9.4 160126.0 -0728.5  
4208 9.8 160130.7 -0746.8

4209 9.8 160131.4 -0759.9  
4210 9.5 160135.4 -0704.1  
4211 9.7 160137.4 -0701.9  
4212 9.5 160151.4 -0700.3  
4213 9.8 160158.1 -0738.5  
4214 9.4 160205.8 -0720.3  
4215 8.6 160210.2 -0752.3  
4216 9.8 160238.5 -0711.3  
4217 9.2 160247.8 -0751.8  
4218 7.7 160258.6 -0755.1



|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|------|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 4219 | 9.4  | 160314.6 | -0750.5 | 4309 | 9.8 | 162320.5 | -0729.6 | 4399 | 9.2 | 165944.7 | -0756.3 | 4489 | 9.4 | 173633.5 | -0705.2 |
| 4220 | 9.4  | 160315.4 | -0750.7 | 4310 | 7.7 | 162329.5 | -0735.8 | 4400 | 8.3 | 170049.8 | -0726.5 | 4490 | 9.6 | 173634.1 | -0747.6 |
| 4221 | 9.7  | 160323.5 | -0720.9 | 4311 | 9.9 | 162330.9 | -0753.2 | 4401 | 9.7 | 170122.5 | -0717.0 | 4491 | 9.8 | 173641.8 | -0742.4 |
| 4222 | 9.1  | 160325.9 | -0703.8 | 4312 | 10. | 162347.5 | -0736.3 | 4402 | 9.0 | 170122.8 | -0736.5 | 4492 | 8.5 | 173642.8 | -0747.7 |
| 4223 | 9.5  | 160344.7 | -0743.4 | 4313 | 10. | 162423.0 | -0739.1 | 4403 | 9.8 | 170147.3 | -0729.0 | 4493 | 8.0 | 173644.7 | -0720.2 |
| 4224 | 9.8  | 160348.1 | -0722.4 | 4314 | 9.6 | 162436.1 | -0703.8 | 4404 | 9.7 | 170238.4 | -0742.0 | 4494 | 9.5 | 173648.8 | -0744.3 |
| 4225 | 10.  | 160409.0 | -0710.2 | 4315 | 9.8 | 162437.0 | -0751.0 | 4405 | 9.8 | 170350.8 | -0727.4 | 4495 | 9.1 | 173735.3 | -0710.0 |
| 4226 | 9.4  | 160420.6 | -0706.4 | 4316 | 9.8 | 162438.6 | -0710.7 | 4406 | 9.5 | 170526.7 | -0711.8 | 4496 | 9.5 | 173803.8 | -0709.6 |
| 4227 | 10.  | 160420.6 | -0731.5 | 4317 | 9.3 | 162504.5 | -0745.5 | 4407 | 10. | 170526.8 | -0723.7 | 4497 | 7.0 | 173839.1 | -0755.1 |
| 4228 | 9.5  | 160513.1 | -0718.8 | 4318 | 9.2 | 162516.5 | -0729.7 | 4408 | 9.0 | 170553.8 | -0723.6 | 4498 | 9.2 | 173845.9 | -0757.6 |
| 4229 | 9.4  | 160524.8 | -0717.6 | 4319 | 9.8 | 162529.1 | -0723.0 | 4409 | 9.4 | 170605.6 | -0756.1 | 4499 | 9.5 | 173858.0 | -0726.8 |
| 4230 | 9.0  | 160526.9 | -0700.0 | 4320 | 10. | 162538.1 | -0702.2 | 4410 | 8.8 | 170634.8 | -0713.6 | 4500 | 9.3 | 173913.5 | -0753.6 |
| 4231 | 9.3  | 160544.5 | -0714.9 | 4321 | 9.8 | 162555.1 | -0708.4 | 4411 | 8.9 | 170704.3 | -0751.0 | 4501 | 9.7 | 173913.6 | -0719.6 |
| 4232 | 9.5  | 160552.0 | -0710.6 | 4322 | 9.1 | 162610.1 | -0700.7 | 4412 | 9.4 | 170711.4 | -0753.2 | 4502 | 9.2 | 173915.1 | -0731.4 |
| 4233 | 7.0  | 160556.1 | -0744.6 | 4323 | 9.6 | 162620.0 | -0727.1 | 4413 | 8.0 | 170727.7 | -0701.9 | 4503 | 9.7 | 173950.1 | -0713.6 |
| 4234 | 9.0  | 160558.4 | -0716.2 | 4324 | 7.8 | 162643.9 | -0750.2 | 4414 | 8.0 | 170812.8 | -0752.0 | 4504 | 9.7 | 174022.8 | -0702.3 |
| 4235 | 10.  | 160608.1 | -0752.0 | 4325 | 9.5 | 162704.5 | -0740.4 | 4415 | 9.0 | 170825.7 | -0705.9 | 4505 | 9.8 | 174030.9 | -0720.6 |
| 4236 | 9.5  | 160619.8 | -0708.8 | 4326 | 8.6 | 162732.0 | -0737.8 | 4416 | 9.6 | 170826.7 | -0704.8 | 4506 | 9.8 | 174106.2 | -0726.7 |
| 4237 | 10.  | 160630.3 | -0712.3 | 4327 | 9.1 | 162735.9 | -0738.0 | 4417 | 9.5 | 170846.2 | -0704.8 | 4507 | 9.8 | 174121.9 | -0715.6 |
| 4238 | 10.  | 160635.6 | -0728.8 | 4328 | 9.8 | 162759.4 | -0730.8 | 4418 | 9.4 | 170908.6 | -0703.5 | 4508 | 8.0 | 174135.4 | -0744.1 |
| 4239 | 9.6  | 160638.2 | -0747.3 | 4329 | 9.8 | 162808.4 | -0753.9 | 4419 | 7.7 | 170931.7 | -0742.3 | 4509 | 9.6 | 174224.0 | -0750.6 |
| 4240 | 10.  | 160654.1 | -0745.1 | 4330 | 10. | 162849.2 | -0713.4 | 4420 | 9.3 | 171007.7 | -0730.2 | 4510 | 8.5 | 174239.6 | -0713.9 |
| 4241 | 9.6  | 160708.9 | -0704.7 | 4331 | 8.9 | 162902.5 | -0727.4 | 4421 | 9.7 | 171011.2 | -0713.6 | 4511 | 9.3 | 174351.4 | -0728.2 |
| 4242 | 5.9  | 160744.5 | -0758.9 | 4332 | 10. | 162950.4 | -0736.8 | 4422 | 9.4 | 171027.1 | -0713.2 | 4512 | 9.6 | 174409.9 | -0715.6 |
| 4243 | 9.5  | 160748.4 | -0703.0 | 4333 | 9.8 | 162955.6 | -0715.7 | 4423 | 9.5 | 171056.1 | -0703.8 | 4513 | 8.9 | 174427.0 | -0732.3 |
| 4244 | 9.4  | 160753.3 | -0707.0 | 4334 | 9.3 | 163016.5 | -0720.4 | 4424 | 9.5 | 171127.7 | -0725.4 | 4514 | 9.2 | 174441.1 | -0730.4 |
| 4245 | 10.  | 160801.9 | -0718.6 | 4335 | 9.7 | 163024.7 | -0756.8 | 4425 | 9.8 | 171133.0 | -0754.4 | 4515 | 8.7 | 174451.6 | -0754.4 |
| 4246 | 9.0  | 160821.1 | -0734.3 | 4336 | 9.8 | 163103.0 | -0721.3 | 4426 | 9.4 | 171203.4 | -0753.2 | 4516 | 9.4 | 174502.9 | -0748.5 |
| 4247 | 9.8  | 160843.6 | -0729.3 | 4337 | 7.8 | 163146.6 | -0713.1 | 4427 | 7.8 | 171208.3 | -0751.5 | 4517 | 7.5 | 174507.4 | -0752.3 |
| 4248 | 9.6  | 160847.6 | -0728.0 | 4338 | 9.8 | 163150.7 | -0756.3 | 4428 | 9.5 | 171224.9 | -0718.6 | 4518 | 9.4 | 174528.9 | -0758.4 |
| 4249 | 9.5  | 160854.5 | -0752.8 | 4339 | 9.8 | 163208.4 | -0730.0 | 4429 | 9.0 | 171227.1 | -0721.1 | 4519 | 9.8 | 174556.3 | -0712.1 |
| 4250 | 10.  | 160858.9 | -0717.0 | 4340 | 8.8 | 163240.8 | -0752.8 | 4430 | 9.8 | 171253.6 | -0758.8 | 4520 | 9.8 | 174613.9 | -0740.0 |
| 4251 | 9.4  | 160927.6 | -0710.0 | 4341 | 9.6 | 163242.4 | -0744.6 | 4431 | 9.5 | 171333.5 | -0759.0 | 4521 | 9.5 | 174636.9 | -0712.7 |
| 4252 | 9.3  | 160934.6 | -0746.1 | 4342 | 9.2 | 163252.9 | -0707.3 | 4432 | 9.5 | 171337.6 | -0737.7 | 4522 | 9.7 | 174639.1 | -0714.3 |
| 4253 | 9.4  | 161003.2 | -0703.3 | 4343 | 9.7 | 163310.2 | -0747.2 | 4433 | 9.5 | 171440.6 | -0741.7 | 4523 | 7.0 | 174705.9 | -0742.1 |
| 4254 | 8.8  | 161006.4 | -0702.3 | 4344 | 9.4 | 163346.8 | -0710.5 | 4434 | 9.1 | 171505.7 | -0740.7 | 4524 | 8.7 | 174718.9 | -0726.5 |
| 4255 | 8.5  | 161007.8 | -0755.1 | 4345 | 9.5 | 163353.6 | -0747.0 | 4435 | 9.4 | 171551.6 | -0700.4 | 4525 | 9.1 | 174725.6 | -0758.7 |
| 4256 | 10.  | 161008.6 | -0708.0 | 4346 | 9.1 | 163358.7 | -0737.3 | 4436 | 9.6 | 171601.1 | -0706.6 | 4526 | 9.8 | 174733.4 | -0757.1 |
| 4257 | 8.5  | 161010.5 | -0719.3 | 4347 | 8.0 | 163542.1 | -0750.5 | 4437 | 9.8 | 171612.6 | -0700.5 | 4527 | 9.4 | 174739.4 | -0730.8 |
| 4258 | 8.7  | 161117.4 | -0731.3 | 4348 | 9.5 | 163804.7 | -0724.0 | 4438 | 8.8 | 171626.7 | -0757.0 | 4528 | 9.5 | 174814.3 | -0700.3 |
| 4259 | 9.6  | 161216.3 | -0718.6 | 4349 | 9.5 | 163810.3 | -0758.6 | 4439 | 9.7 | 171708.2 | -0717.1 | 4529 | 9.4 | 174821.0 | -0726.2 |
| 4260 | 10.  | 161243.6 | -0734.7 | 4350 | 9.4 | 163906.8 | -0755.3 | 4440 | 9.4 | 171716.2 | -0724.7 | 4530 | 9.7 | 174821.9 | -0719.4 |
| 4261 | 9.3  | 161245.2 | -0745.2 | 4351 | 9.0 | 163913.1 | -0733.8 | 4441 | 9.5 | 171743.7 | -0725.8 | 4531 | 9.1 | 174823.5 | -0721.8 |
| 4262 | 9.9  | 161248.5 | -0756.8 | 4352 | 9.8 | 163949.4 | -0753.3 | 4442 | 9.4 | 171804.8 | -0737.0 | 4532 | 9.4 | 174832.7 | -0701.2 |
| 4263 | 9.2  | 161249.5 | -0744.7 | 4353 | 9.7 | 163952.9 | -0709.9 | 4443 | 9.0 | 171807.7 | -0737.6 | 4533 | 8.9 | 174859.6 | -0741.9 |
| 4264 | 10.  | 161258.6 | -0743.3 | 4354 | 9.1 | 164027.1 | -0708.8 | 4444 | 8.0 | 171923.6 | -0711.1 | 4534 | 8.6 | 174917.4 | -0715.1 |
| 4265 | 9.6  | 161312.6 | -0758.9 | 4355 | 9.5 | 164056.1 | -0743.8 | 4445 | 9.6 | 172023.7 | -0737.1 | 4535 | 10. | 174946.8 | -0705.8 |
| 4266 | 10.  | 161313.0 | -0742.5 | 4356 | 9.5 | 164113.9 | -0701.0 | 4446 | 9.8 | 172035.5 | -0715.7 | 4536 | 9.6 | 175044.9 | -0734.4 |
| 4267 | 30.0 | 161336.2 | -0721.3 | 4357 | 9.5 | 164123.6 | -0750.4 | 4447 | 9.5 | 172125.2 | -0721.0 | 4537 | 9.1 | 175127.9 | -0725.5 |
| 4268 | 9.5  | 161343.1 | -0745.2 | 4358 | 9.6 | 164146.9 | -0704.3 | 4448 | 7.8 | 172151.1 | -0753.6 | 4538 | 8.9 | 175153.2 | -0713.7 |
| 4269 | 9.9  | 161416.5 | -0738.7 | 4359 | 9.4 | 164206.2 | -0708.0 | 4449 | 9.3 | 172204.9 | -0705.4 | 4539 | 9.8 | 175203.7 | -0706.7 |
| 4270 | 10.  | 161417.1 | -0744.7 | 4360 | 9.5 | 164230.7 | -0714.3 | 4450 | 9.9 | 172244.8 | -0720.0 | 4540 | 9.0 | 175205.3 | -0729.8 |
| 4271 | 9.4  | 161419.6 | -0735.3 | 4361 | 8.5 | 164234.0 | -0710.3 | 4451 | 9.0 | 172251.7 | -0744.9 | 4541 | 8.6 | 175231.8 | -0756.0 |
| 4272 | 9.2  | 161424.1 | -0716.9 | 4362 | 9.4 | 164400.5 | -0757.7 | 4452 | 8.0 | 172308.2 | -0749.9 | 4542 | 9.4 | 175233.7 | -0757.2 |
| 4273 | 9.8  | 161447.0 | -0758.7 | 4363 | 9.3 | 164405.1 | -0751.0 | 4453 | 9.4 | 172334.0 | -0723.7 | 4543 | 8.7 | 175244.9 | -0731.0 |
| 4274 | 8.9  | 161502.3 | -0701.7 | 4364 | 8.8 | 164421.7 | -0703.2 | 4454 | 9.7 | 172400.5 | -0709.3 | 4544 | 9.0 | 175257.4 | -0733.1 |
| 4275 | 8.9  | 161510.6 | -0723.1 | 4365 | 9.7 | 164445.7 | -0753.1 | 4455 | 9.4 | 172520.7 | -0730.8 | 4545 | 9.8 | 175322.1 | -0756.9 |
| 4276 | 9.0  | 161605.1 | -0734.2 | 4366 | 9.7 | 164452.6 | -0754.0 | 4456 | 8.8 | 172546.4 | -0722.9 | 4546 | 8.8 | 175335.2 | -0723.6 |
| 4277 | 9.4  | 161631.0 | -0731.8 | 4367 | 9.4 | 164453.8 | -0757.7 | 4457 | 8.0 | 172555.2 | -0748.6 | 4547 | 9.6 | 175339.7 | -0709.3 |
| 4278 | 9.9  | 161656.3 | -0705.0 | 4368 | 9.3 | 164535.2 | -0704.6 | 4458 | 9.3 | 172605.7 | -0725.7 | 4548 | 9.2 | 175438.9 | -0718.8 |
| 4279 | 9.5  | 161658.2 | -0755.3 | 4369 | 7.8 | 164537.3 | -0712.4 | 4459 | 9.3 | 172651.2 | -0750.6 | 4549 | 9.5 | 175504.2 | -0744.3 |
| 4280 | 9.5  | 161702.1 | -0719.6 | 4370 | 8.5 | 164610.5 | -0706.6 | 4460 | 9.2 | 172656.0 | -0710.5 | 4550 | 7.8 | 175514.8 | -0739.9 |
| 4281 | 8.7  | 161703.5 | -0717.2 | 4371 | 9.8 | 164646.0 | -0715.7 | 4461 | 8.8 | 172702.1 | -0709.0 | 4551 | 9.5 | 175518.2 | -0718.4 |
| 4282 | 8.8  | 161723.0 | -0738.0 | 4372 | 10. | 164714.9 | -0757.9 | 4462 | 9.1 | 172709.9 | -0705.4 | 4552 | 10. | 175540.1 | -0706.3 |
| 4283 | 9.0  | 161816.3 | -0701.0 | 4373 | 9.8 | 164805.7 | -0750.5 | 4463 | 10. | 172735.0 | -0755.4 | 4553 | 9.7 | 175540.5 | -0753.1 |
| 4284 | 8.5  | 161822.0 | -0752.0 | 4374 | 10. | 164847.0 | -0721.7 | 4464 | 9.8 | 172737.6 | -0758.2 | 4554 | 8.8 | 175550.9 | -0740.4 |
| 4285 | 9.8  | 161825.3 | -0702.2 | 4375 | 9.9 | 164910.8 | -0718.4 | 4465 | 9.4 | 172805.0 | -0756.9 | 4555 | 8.9 | 175559.9 | -0756.1 |
| 4286 | 8.6  | 161846.1 | -0731.1 | 4376 | 9.5 | 164936.8 | -0740.1 | 4466 | 9.1 | 172859.2 | -0711.1 | 4556 | 10. | 175657.1 | -0734.5 |
| 4287 | 9.6  | 161854.1 | -0714.0 | 4377 | 9.5 | 164943.9 | -0758.9 | 4467 | 9.2 | 172902.8 | -0736.5 | 4557 | 9.5 | 175732.0 | -0702.3 |
| 4288 | 9.5  | 161917.0 | -0746.2 | 4378 | 9.6 | 165044.2 | -0714.7 | 4468 | 7.3 | 172930.7 | -0756.6 | 4558 | 9.8 | 175741.2 | -0708.7 |
| 4289 | 9.5  | 161950.5 | -0740.5 | 4379 | 9.7 | 165048.7 | -0717.1 | 4469 | 10. | 173030.7 | -0759.4 | 4559 | 9.9 | 175845.3 | -0712.0 |
| 4290 | 9.4  | 161950.8 | -0756.0 | 4380 | 9.3 | 165108.7 | -0733.1 | 4470 | 9.8 | 173012.4 | -0759.7 | 4560 | 9.5 | 175847.0 | -0737.8 |
| 4291 | 9.8  | 161952.7 | -0734.4 | 4381 | 9.3 | 165117.7 | -0703.1 | 4471 | 9.1 | 173014.7 | -0      |      |     |          |         |



4579 9.4 180752.7 -0715.2  
 4580 8.1 180919.9 -0715.8  
 4581 9.5 180929.6 -0703.2  
 4582 8.0 180931.6 -0720.0  
 4583 9.5 180948.5 -0729.9  
 4584 9.5 181012.1 -0707.5  
 4585 9.4 181033.0 -0706.4  
 4586 10.1 181255.1 -0706.5  
 4587 10.1 181259.1 -0709.9  
 4588 9.9 181415.8 -0724.3

4589 7.0 181420.0 -0733.4  
 4590 9.2 181438.6 -0700.1  
 4591 9.5 181450.1 -0712.3  
 4592 9.0 181451.2 -0743.9  
 4593 9.4 181605.5 -0729.4  
 4594 9.2 181610.3 -0714.6  
 4595 9.8 181630.1 -0705.0  
 4596 8.9 181638.0 -0732.3  
 4597 9.8 181641.3 -0709.2  
 4598 6.0 181651.0 -0708.4

4599 9.6 181710.2 -0705.4  
 4600 9.0 181726.8 -0752.4  
 4601 9.7 181733.1 -0734.3  
 4602 7.9 181822.3 -0741.5  
 4603 8.4 181840.2 -0712.5  
 4604 9.5 181913.5 -0700.8  
 4605 9.9 182002.6 -0738.2  
 4606 10.1 182008.7 -0738.6  
 4607 9.4 182054.2 -0749.4  
 4608 9.5 182058.5 -0728.4

4609 9.0 182200.5 -0722.7  
 4610 9.3 182204.3 -0745.0  
 4611 9.5 182254.5 -0721.8  
 4612 9.8 182320.8 -0748.5  
 4613 9.5 182321.1 -0715.4  
 4614 9.5 182341.9 -0708.1  
 4615 9.5 182414.7 -0746.4  
 4616 9.6 182419.8 -0725.0  
 4617 7.9 182421.0 -0755.6  
 4618 9.5 182437.6 -0725.9

4619 10.1 182502.1 -0708.2  
 4620 9.5 182506.2 -0740.4  
 4621 9.7 182527.9 -0710.2  
 4622 9.6 182548.0 -0722.0  
 4623 7.5 182621.2 -0748.7  
 4624 9.0 182653.1 -0740.3  
 4625 9.5 182656.3 -0707.4  
 4626 9.5 182707.8 -0701.6  
 4627 9.0 182719.9 -0731.6  
 4628 9.1 182731.2 -0715.4

4629 9.7 182748.5 -0720.3  
 4630 9.4 182807.3 -0751.4  
 4631 9.5 182841.2 -0748.3  
 4632 10.1 182901.1 -0704.8  
 4633 9.0 182913.2 -0743.0  
 4634 9.5 182913.6 -0754.2  
 4635 9.4 182929.3 -0746.8  
 4636 7.8 182951.0 -0727.2  
 4637 9.8 183004.6 -0713.1  
 4638 8.8 183007.2 -0746.2

4639 9.1 183027.9 -0705.6  
 4640 9.0 183033.0 -0724.5  
 4641 9.8 183035.6 -0717.3  
 4642 9.0 183111.6 -0758.9  
 4643 9.5 183111.8 -0750.7  
 4644 9.0 183145.7 -0724.5  
 4645 9.0 183149.5 -0728.8  
 4646 9.6 183152.1 -0712.4  
 4647 9.6 183207.6 -0740.6  
 4648 6.1 183209.2 -0754.8

4649 9.1 183213.5 -0717.2  
 4650 9.1 183219.6 -0722.3  
 4651 9.9 183235.8 -0702.9  
 4652 9.9 183238.6 -0748.9  
 4653 9.7 183246.3 -0723.1  
 4654 9.8 183257.8 -0711.9  
 4655 9.5 183301.6 -0734.9  
 4656 9.6 183307.1 -0757.8  
 4657 10.1 183322.5 -0702.9  
 4658 9.8 183326.6 -0732.3

4659 9.0 183348.9 -0710.9  
 4660 9.4 183350.3 -0758.7  
 4661 8.7 183352.1 -0724.3  
 4662 9.4 183354.1 -0725.4  
 4663 9.5 183354.4 -0753.8  
 4664 7.3 183427.7 -0728.3  
 4665 9.6 183428.6 -0700.3  
 4666 9.5 183431.9 -0711.6  
 4667 9.0 183434.6 -0723.1  
 4668 8.5 183444.1 -0746.5

4669 9.0 183444.9 -0727.5  
 4670 6.2 183447.0 -0712.3  
 4671 9.7 183451.9 -0706.7  
 4672 9.0 183452.1 -0749.8  
 4673 9.0 183454.4 -0705.5  
 4674 9.8 183507.1 -0726.1  
 4675 8.5 183516.2 -0751.0  
 4676 9.5 183520.8 -0737.3  
 4677 8.6 183521.2 -0707.1  
 4678 9.5 183521.5 -0706.8

4679 9.3 183541.6 -0751.8  
 4680 9.5 183542.3 -0713.7  
 4681 9.4 183548.3 -0702.0  
 4682 9.7 183552.0 -0736.5  
 4683 8.5 183552.7 -0752.2  
 4684 9.5 183608.8 -0703.5  
 4685 9.7 183621.3 -0707.1  
 4686 9.4 183631.1 -0700.8  
 4687 8.6 183636.9 -0745.7  
 4688 9.0 183643.4 -0743.2

4689 8.2 183644.6 -0714.8  
 4690 9.6 183652.5 -0744.3  
 4691 9.5 183659.8 -0752.5  
 4692 9.1 183707.0 -0742.9  
 4693 10.1 183707.3 -0718.1  
 4694 9.0 183724.3 -0706.7  
 4695 9.3 183732.3 -0707.3  
 4696 9.1 183747.2 -0743.5  
 4697 10.1 183802.2 -0715.8  
 4698 9.4 183808.5 -0710.8

4699 9.3 183822.2 -0741.2  
 4700 7.4 183903.8 -0743.7  
 4701 10.1 183905.9 -0734.8  
 4702 10.1 183906.1 -0709.4  
 4703 9.5 183909.0 -0706.3  
 4704 9.6 183911.2 -0706.0  
 4705 9.9 183931.7 -0735.5  
 4706 9.3 183932.0 -0759.7  
 4707 9.7 183938.2 -0758.5  
 4708 9.8 183941.9 -0742.6

4709 9.5 183946.7 -0705.7  
 4710 8.9 183951.4 -0703.5  
 4711 10.1 183952.3 -0709.1  
 4712 9.3 183955.3 -0711.7  
 4713 8.9 183959.0 -0711.8  
 4714 9.8 184013.9 -0714.1  
 4715 9.7 184017.7 -0756.5  
 4716 9.8 184020.0 -0702.4  
 4717 9.3 184025.1 -0735.3  
 4718 10.1 184031.7 -0705.1

4719 9.6 184040.2 -0743.1  
 4720 9.5 184040.4 -0720.6  
 4721 8.7 184045.3 -0717.2  
 4722 9.5 184107.2 -0750.0  
 4723 9.3 184114.6 -0707.4  
 4724 9.8 184116.4 -0739.1  
 4725 9.6 184135.2 -0702.7  
 4726 8.0 184142.5 -0743.6  
 4727 9.6 184147.6 -0706.5  
 4728 9.3 184153.3 -0737.0

4729 8.9 184203.7 -0737.7  
 4730 9.3 184205.2 -0749.2  
 4731 10.1 184220.1 -0713.6  
 4732 9.5 184223.7 -0744.9  
 4733 8.8 184231.7 -0725.7  
 4734 9.7 184233.0 -0700.2  
 4735 8.8 184235.9 -0702.1  
 4736 8.5 184239.7 -0710.4  
 4737 9.0 184241.7 -0728.2  
 4738 10.1 184248.3 -0751.3

4739 8.3 184249.3 -0759.7  
 4740 8.7 184318.3 -0757.4  
 4741 9.3 184332.7 -0717.4  
 4742 9.5 184343.2 -0734.7  
 4743 9.1 184359.3 -0752.1  
 4744 8.9 184412.0 -0743.0  
 4745 9.1 184416.7 -0745.7  
 4746 8.3 184417.7 -0725.4  
 4747 8.3 184419.3 -0709.3  
 4748 9.9 184431.4 -0714.7

4749 9.3 184431.6 -0719.6  
 4750 9.0 184447.7 -0740.8  
 4751 9.5 184459.7 -0757.5  
 4752 9.6 184507.8 -0706.3  
 4753 9.4 184512.7 -0739.6  
 4754 9.2 184521.9 -0709.9  
 4755 9.1 184522.1 -0715.1  
 4756 9.8 184528.2 -0703.8  
 4757 9.8 184547.9 -0705.4  
 4758 10.1 184606.9 -0714.3

4759 9.0 184619.2 -0742.4  
 4760 9.4 184620.6 -0714.4  
 4761 8.8 184622.5 -0730.2  
 4762 10.1 184632.7 -0739.3  
 4763 8.9 184633.4 -0746.2  
 4764 9.6 184725.8 -0710.5  
 4765 9.2 184731.5 -0722.3  
 4766 9.0 184741.8 -0713.1  
 4767 9.1 184748.7 -0708.6  
 4768 9.3 184750.2 -0743.1

4769 9.3 184751.8 -0743.5  
 4770 9.7 184757.7 -0725.5  
 4771 9.8 184804.6 -0758.6  
 4772 9.3 184809.1 -0721.4  
 4773 9.4 184809.4 -0712.5  
 4774 9.8 184809.5 -0758.8  
 4775 9.9 184817.3 -0704.1  
 4776 10.1 184823.0 -0708.1  
 4777 9.7 184825.0 -0731.8  
 4778 9.7 184841.2 -0734.3

4779 9.4 184849.9 -0746.2  
 4780 8.3 184900.4 -0707.5  
 4781 9.6 184905.8 -0756.7  
 4782 9.8 184914.7 -0733.7  
 4783 9.6 184919.4 -0759.6  
 4784 9.3 184921.9 -0726.6  
 4785 9.4 184926.5 -0734.4  
 4786 9.5 184932.0 -0703.4  
 4787 9.8 184946.8 -0758.4  
 4788 9.5 184958.7 -0759.5

4789 9.5 185000.8 -0751.7  
 4790 9.8 185004.9 -0713.8  
 4791 9.5 185014.7 -0746.3  
 4792 9.5 185031.9 -0702.9  
 4793 9.5 185059.9 -0705.3  
 4794 8.9 185103.0 -0732.3  
 4795 9.4 185111.8 -0751.4  
 4796 9.4 185117.6 -0746.8  
 4797 9.9 185122.6 -0715.4  
 4798 7.7 185124.6 -0702.1

4799 8.5 185126.0 -0719.6  
 4800 10.1 185126.8 -0737.3  
 4801 10.1 185132.6 -0719.6  
 4802 9.8 185134.3 -0722.5  
 4803 9.7 185144.8 -0701.4  
 4804 9.5 185151.6 -0735.1  
 4805 9.4 185155.7 -0720.4  
 4806 9.1 185159.5 -0705.2  
 4807 9.5 185203.3 -0758.8  
 4808 9.8 185210.6 -0754.6

4809 7.4 185240.0 -0734.7  
 4810 9.8 185244.2 -0738.8  
 4811 10.1 185246.6 -0732.6  
 4812 8.3 185258.4 -0744.1  
 4813 9.8 185258.8 -0729.5  
 4814 9.4 185307.0 -0759.8  
 4815 9.6 185310.2 -0741.6  
 4816 9.5 185315.9 -0719.0  
 4817 9.3 185320.0 -0714.0  
 4818 9.2 185325.7 -0742.5

4819 9.5 185326.3 -0713.9  
 4820 8.6 185329.1 -0704.0  
 4821 9.2 185340.8 -0712.4  
 4822 9.5 185404.0 -0737.0  
 4823 9.3 185407.2 -0743.7  
 4824 9.8 185407.2 -0714.7  
 4825 9.2 185410.5 -0741.3  
 4826 9.6 185422.6 -0714.2  
 4827 9.3 185450.7 -0739.3  
 4828 9.8 185451.9 -0712.6

4829 7.5 185457.5 -0755.8  
 4830 9.2 185501.8 -0730.6  
 4831 9.2 185507.3 -0713.1  
 4832 9.0 185514.2 -0733.0  
 4833 8.5 185539.3 -0734.2  
 4834 9.8 185549.7 -0714.3  
 4835 9.4 185559.3 -0736.1  
 4836 9.4 185600.4 -0736.1  
 4837 9.2 185619.5 -0708.0  
 4838 9.1 185620.8 -0752.0

4839 8.0 185633.6 -0755.4  
 4840 10.1 185635.4 -0711.8  
 4841 9.4 185643.9 -0714.7  
 4842 9.1 185656.3 -0739.6  
 4843 9.6 185709.5 -0722.1  
 4844 8.2 185711.2 -0721.5  
 4845 9.0 185711.4 -0713.4  
 4846 9.2 185728.7 -0745.2  
 4847 9.7 185731.7 -0757.6  
 4848 9.8 185735.8 -0742.7

4849 9.0 185738.5 -0700.7  
 4850 9.5 185820.9 -0757.0  
 4851 9.6 185822.5 -0759.0  
 4852 9.2 185844.9 -0709.2  
 4853 9.2 185902.6 -0759.9  
 4854 10.1 185919.9 -0702.9  
 4855 9.3 185926.8 -0717.2  
 4856 8.3 185949.0 -0737.2  
 4857 8.9 185954.3 -0733.4  
 4858 9.3 190006.4 -0704.1

4859 9.5 190006.5 -0700.3  
 4860 9.5 190027.5 -0734.1  
 4861 8.0 190030.8 -0739.5  
 4862 9.0 190042.7 -0749.8  
 4863 8.3 190051.7 -0711.1  
 4864 8.5 190058.8 -0741.7  
 4865 8.2 190101.3 -0750.6  
 4866 8.7 190113.8 -0724.9  
 4867 7.8 190114.0 -0714.1  
 4868 9.3 190129.9 -0711.4

4869 8.2 190136.5 -0708.5  
 4870 9.1 190142.7 -0711.5  
 4871 9.5 190211.4 -0724.5  
 4872 7.3 190212.8 -0730.4  
 4873 9.5 190237.2 -0748.7  
 4874 9.5 190303.2 -0721.3  
 4875 8.9 190308.7 -0755.4  
 4876 7.0 190311.8 -0739.4  
 4877 9.8 190314.7 -0729.8  
 4878 9.0 190318.2 -0708.1

4879 9.2 190318.4 -0715.7  
 4880 9.9 190341.7 -0711.4  
 4881 9.6 190346.5 -0743.3  
 4882 9.7 190407.4 -0707.0  
 4883 9.8 190417.3 -0724.2  
 4884 9.8 190420.7 -0726.4  
 4885 10.1 190426.6 -0713.8  
 4886 9.3 190431.1 -0706.9  
 4887 9.0 190434.9 -0742.3  
 4888 8.5 190459.9 -0743.7

4889 9.1 190519.2 -0759.3  
 4890 9.0 190522.0 -0702.8  
 4891 9.4 190527.7 -0723.2  
 4892 9.8 190539.3 -0734.5  
 4893 9.5 190556.8 -0744.1  
 4894 9.1 190641.4 -0724.0  
 4895 9.5 190648.9 -0726.5  
 4896 9.7 190719.0 -0715.5  
 4897 9.5 190730.3 -0750.7  
 4898 8.9 190732.3 -0756.2

4899 9.5 190736.4 -0751.0  
 4900 9.5 190753.1 -0748.6  
 4901 10.1 190754.1 -0747.6  
 4902 9.0 190808.8 -0715.8  
 4903 9.5 190808.9 -0745.2  
 4904 9.7 190810.4 -0723.0  
 4905 9.2 190831.3 -0709.4  
 4906 9.0 190832.5 -0705.8  
 4907 9.5 190836.4 -0747.7  
 4908 9.9 190841.5 -0717.8

4909 9.0 190909.8 -0728.0  
 4910 9.4 190920.0 -0756.9  
 4911 9.3 190933.5 -0706.4  
 4912 8.9 190941.0 -0707.3  
 4913 9.5 190955.4 -0714.3  
 4914 9.3 190959.3 -0718.8  
 4915 9.2 191001.1 -0719.9  
 4916 9.1 191022.9 -0726.1  
 4917 9.0 191031.8 -0713.4  
 4918 9.2 191038.4 -0719.3

4919 9.0 191043.9 -0747.2  
 4920 9.5 191050.8 -0749.9  
 4921 9.5 191111.7 -0714.5  
 4922 9.5 191118.0 -0714.8  
 4923 8.5 191132.4 -0716.7  
 4924 3.8 191138.3 -0727.5  
 4925 9.5 191156.1 -0700.1  
 4926 10.1 191208.5 -0704.5  
 4927 9.8 191217.9 -0737.5  
 4928 9.1 191220.8 -0739.8

4929 8.5 191246.8 -0700.8  
 4930 9.0 191251.5 -0711.7  
 4931 9.5 191337.4 -0738.8  
 4932 9.5 191400.9 -0751.2  
 4933 8.5 191419.3 -0751.3  
 4934 8.6 191428.0 -0759.6  
 4935 8.0 191439.8 -0729.5  
 4936 9.5 191441.6 -0755.0  
 4937 9.4 191444.4 -0735.8  
 4938 8.7 191452.6 -0724.1



4939 9.8 191504.4 -0724.0  
 4940 9.0 191509.8 -0714.5  
 4941 8.3 191511.5 -0713.9  
 4942 7.0 191514.9 -0740.1  
 4943 9.8 191515.7 -0749.9  
 4944 9.0 191516.6 -0729.5  
 4945 9.1 191517.8 -0709.2  
 4946 9.7 191531.3 -0755.6  
 4947 7.8 191614.8 -0715.2  
 4948 9.5 191618.9 -0744.5

4949 9.3 191635.1 -0720.0  
 4950 8.8 191640.4 -0755.8  
 4951 9.8 191714.8 -0748.8  
 4952 9.8 191733.8 -0701.9  
 4953 9.0 191741.2 -0712.5  
 4954 9.3 191803.2 -0706.1  
 4955 9.5 191809.9 -0729.0  
 4956 8.5 191819.4 -0716.8  
 4957 9.5 191910.9 -0739.0  
 4958 9.5 191911.9 -0728.4

4959 9.0 191935.7 -0741.0  
 4960 9.1 191936.4 -0726.9  
 4961 9.0 191954.4 -0753.4  
 4962 9.8 192011.3 -0714.5  
 4963 9.5 192026.4 -0719.1  
 4964 9.8 192046.6 -0709.6  
 4965 9.1 192111.9 -0733.3  
 4966 9.5 192116.3 -0752.2  
 4967 9.2 192118.4 -0728.8  
 4968 6.8 192132.6 -0710.1

4969 9.3 192217.9 -0753.1  
 4970 9.2 192231.4 -0718.7  
 4971 9.3 192240.0 -0734.4  
 4972 9.5 192248.9 -0728.2  
 4973 9.4 192302.5 -0724.0  
 4974 9.0 192310.4 -0728.7  
 4975 9.1 192314.0 -0739.6  
 4976 10. 192341.8 -0710.5  
 4977 9.0 192346.3 -0706.3  
 4978 9.4 192354.0 -0717.3

4979 9.1 192453.0 -0738.0  
 4980 9.5 192454.4 -0753.4  
 4981 9.4 192456.3 -0708.4  
 4982 9.5 192509.9 -0710.7  
 4983 9.5 192518.1 -0747.0  
 4984 9.0 192534.0 -0725.7  
 4985 9.8 192536.4 -0704.8  
 4986 9.5 192553.9 -0742.4  
 4987 9.5 192605.7 -0739.5  
 4988 9.4 192607.5 -0735.2

4989 9.0 192612.8 -0757.8  
 4990 9.0 192630.5 -0709.2  
 4991 8.5 192642.9 -0705.7  
 4992 9.5 192646.0 -0720.8  
 4993 9.0 192650.4 -0753.6  
 4994 9.3 192704.8 -0755.4  
 4995 9.3 192705.9 -0728.7  
 4996 9.1 192714.1 -0749.3  
 4997 9.8 192731.4 -0715.7  
 4998 7.0 192741.0 -0746.0

4999 9.5 192742.9 -0719.3  
 5000 8.2 192746.7 -0737.5  
 5001 9.2 192755.9 -0705.7  
 5002 9.7 192800.0 -0713.4  
 5003 9.6 192807.2 -0713.3  
 5004 9.5 192845.5 -0730.1  
 5005 9.5 192848.1 -0756.2  
 5006 5.0 192905.1 -0720.7  
 5007 9.5 192913.0 -0739.1  
 5008 9.5 192932.7 -0709.4

5009 9.3 192933.7 -0712.9  
 5010 9.5 192949.6 -0706.7  
 5011 9.0 192954.2 -0723.2  
 5012 9.5 193013.8 -0741.0  
 5013 9.0 193015.0 -0728.1  
 5014 9.5 193017.9 -0706.7  
 5015 9.4 193034.6 -0703.2  
 5016 9.5 193048.8 -0743.1  
 5017 9.5 193107.6 -0759.1  
 5018 8.7 193108.3 -0743.7

5019 9.4 193122.9 -0725.6  
 5020 10. 193127.8 -0704.0  
 5021 9.5 193133.8 -0715.1  
 5022 9.1 193136.2 -0733.2  
 5023 8.8 193147.5 -0713.3  
 5024 7.8 193153.1 -0702.1  
 5025 9.1 193216.3 -0728.5  
 5026 9.1 193239.0 -0756.5  
 5027 9.5 193240.8 -0722.0  
 5028 7.0 193254.8 -0750.4

5029 8.8 193301.7 -0758.0  
 5030 8.9 193302.8 -0745.0  
 5031 9.4 193323.3 -0742.5  
 5032 9.3 193327.4 -0723.9  
 5033 9.5 193338.3 -0726.9  
 5034 9.5 193347.3 -0743.7  
 5035 9.8 193349.9 -0711.1  
 5036 9.0 193401.1 -0709.7  
 5037 9.1 193420.7 -0757.3  
 5038 9.4 193424.5 -0754.7

5039 9.8 193442.4 -0700.3  
 5040 9.8 193450.3 -0715.0  
 5041 9.5 193459.0 -0746.3  
 5042 9.1 193515.0 -0719.2  
 5043 9.5 193542.9 -0717.2  
 5044 9.4 193548.4 -0703.7  
 5045 9.4 193552.8 -0720.0  
 5046 9.5 193600.8 -0751.7  
 5047 9.0 193622.0 -0757.1  
 5048 9.1 193632.8 -0755.7

5049 9.5 193634.5 -0752.7  
 5050 9.0 193637.6 -0736.5  
 5051 8.8 193643.6 -0726.1  
 5052 9.4 193700.2 -0750.4  
 5053 9.1 193701.1 -0755.9  
 5054 9.2 193701.2 -0728.9  
 5055 8.6 193728.4 -0755.4  
 5056 7.2 193739.4 -0721.6  
 5057 8.5 193807.7 -0756.3  
 5058 8.9 193813.4 -0712.9

5059 9.5 193915.4 -0736.8  
 5060 8.0 193920.3 -0753.3  
 5061 8.0 193953.6 -0741.9  
 5062 10. 194000.7 -0703.6  
 5063 9.8 194025.6 -0705.6  
 5064 9.3 194039.2 -0705.8  
 5065 9.3 194046.9 -0703.9  
 5066 9.8 194057.5 -0754.0  
 5067 9.7 194108.4 -0717.4  
 5068 9.4 194111.3 -0755.3

5069 9.2 194130.8 -0733.5  
 5070 9.3 194135.8 -0748.9  
 5071 9.1 194136.9 -0754.8  
 5072 8.7 194149.4 -0709.8  
 5073 9.3 194158.7 -0707.7  
 5074 9.5 194220.1 -0754.1  
 5075 9.4 194233.4 -0744.0  
 5076 8.8 194240.9 -0725.8  
 5077 8.9 194242.3 -0733.1  
 5078 9.4 194300.6 -0736.7

5079 9.1 194305.5 -0712.1  
 5080 8.9 194306.8 -0726.7  
 5081 9.8 194307.7 -0731.3  
 5082 9.5 194314.4 -0754.1  
 5083 9.4 194331.9 -0724.0  
 5084 9.5 194335.7 -0718.9  
 5085 9.4 194342.8 -0742.8  
 5086 9.5 194404.9 -0730.4  
 5087 9.6 194411.3 -0725.5  
 5088 9.1 194442.4 -0710.0

5089 9.3 194505.4 -0745.0  
 5090 9.1 194522.9 -0727.7  
 5091 8.5 194534.1 -0711.3  
 5092 8.0 194538.8 -0747.7  
 5093 9.5 194551.4 -0703.9  
 5094 8.9 194612.9 -0707.6  
 5095 9.4 194616.8 -0752.0  
 5096 9.8 194633.4 -0702.9  
 5097 9.8 194647.1 -0737.5  
 5098 9.0 194708.0 -0715.5

5099 8.0 194708.9 -0725.9  
 5100 8.8 194712.9 -0749.9  
 5101 8.7 194716.7 -0718.8  
 5102 6.3 194732.5 -0706.4  
 5103 8.9 194754.8 -0705.4  
 5104 9.8 194821.7 -0750.2  
 5105 9.7 194832.3 -0759.7  
 5106 8.5 194834.9 -0714.3  
 5107 9.4 194844.2 -0716.0  
 5108 9.0 194852.6 -0731.7

5109 9.5 194855.1 -0726.4  
 5110 9.1 194856.5 -0759.6  
 5111 9.5 194906.1 -0731.0  
 5112 9.5 194910.5 -0708.2  
 5113 9.2 194922.7 -0754.2  
 5114 7.3 194923.2 -0747.3  
 5115 6.7 194938.5 -0704.8  
 5116 9.0 194950.1 -0700.1  
 5117 9.1 195003.8 -0720.6  
 5118 9.8 195009.4 -0717.0

5119 9.6 195016.5 -0716.0  
 5120 9.8 195019.2 -0714.6  
 5121 9.8 195024.0 -0722.5  
 5122 9.6 195024.6 -0733.9  
 5123 9.4 195036.0 -0756.7  
 5124 9.8 195053.4 -0712.0  
 5125 9.7 195053.4 -0714.2  
 5126 9.2 195057.0 -0717.5  
 5127 9.5 195119.2 -0758.7  
 5128 9.4 195122.0 -0703.1

5129 9.8 195128.9 -0714.0  
 5130 9.4 195148.7 -0737.7  
 5131 9.8 195157.5 -0724.4  
 5132 9.8 195206.1 -0758.5  
 5133 9.8 195210.9 -0734.2  
 5134 9.4 195225.6 -0738.2  
 5135 9.5 195234.5 -0745.6  
 5136 9.8 195240.5 -0709.1  
 5137 9.6 195243.7 -0710.5  
 5138 9.5 195258.6 -0700.4

5139 9.7 195301.7 -0737.5  
 5140 9.6 195302.9 -0718.3  
 5141 9.8 195317.6 -0745.8  
 5142 9.9 195318.4 -0740.4  
 5143 9.2 195322.1 -0738.0  
 5144 9.1 195324.5 -0734.4  
 5145 9.8 195354.9 -0715.4  
 5146 8.5 195356.1 -0734.2  
 5147 9.5 195405.8 -0738.5  
 5148 9.7 195414.7 -0738.5

5149 9.1 195426.2 -0746.4  
 5150 9.4 195428.6 -0734.3  
 5151 8.2 195436.1 -0738.2  
 5152 9.0 195446.6 -0732.4  
 5153 9.4 195454.0 -0732.4  
 5154 8.8 195507.1 -0744.8  
 5155 8.9 195517.7 -0738.0  
 5156 9.8 195534.2 -0743.2  
 5157 9.7 195557.7 -0733.1  
 5158 10. 195610.6 -0727.2

5159 6.7 195612.2 -0751.1  
 5160 9.5 195627.9 -0716.8  
 5161 9.4 195644.2 -0716.8  
 5162 9.5 195711.4 -0711.9  
 5163 9.5 195711.9 -0736.0  
 5164 9.4 195743.7 -0724.6  
 5165 9.8 195807.8 -0740.1  
 5166 8.9 195828.2 -0727.4  
 5167 9.8 195847.6 -0715.7  
 5168 9.2 195852.9 -0722.3

5169 8.2 195857.7 -0725.7  
 5170 9.4 195910.8 -0752.7  
 5171 9.8 195921.2 -0726.7  
 5172 9.5 195921.9 -0701.0  
 5173 9.4 195927.7 -0743.1  
 5174 9.4 195949.6 -0711.8  
 5175 8.8 200015.8 -0739.0  
 5176 9.2 200017.3 -0738.7  
 5177 6.8 200021.3 -0710.6  
 5178 8.7 200035.7 -0731.5

5179 10. 200036.5 -0743.2  
 5180 9.1 200039.3 -0750.0  
 5181 9.2 200041.3 -0747.6  
 5182 9.5 200051.8 -0700.8  
 5183 9.4 200055.7 -0728.2  
 5184 6.1 200110.2 -0726.0  
 5185 9.4 200136.2 -0736.3  
 5186 9.3 200151.6 -0702.3  
 5187 9.5 200152.1 -0707.2  
 5188 9.4 200203.8 -0735.7

5189 9.5 200208.8 -0736.8  
 5190 9.4 200217.4 -0723.5  
 5191 9.7 200225.3 -0751.1  
 5192 9.8 200242.2 -0722.8  
 5193 9.0 200308.1 -0703.0  
 5194 9.8 200313.8 -0741.9  
 5195 9.5 200315.7 -0722.5  
 5196 9.7 200319.2 -0724.3  
 5197 9.4 200323.6 -0701.9  
 5198 8.3 200335.8 -0738.5

5199 9.1 200348.0 -0713.2  
 5200 8.0 200348.1 -0743.0  
 5201 9.3 200351.7 -0731.0  
 5202 9.0 200355.2 -0723.4  
 5203 9.2 200400.5 -0756.3  
 5204 9.0 200405.5 -0755.6  
 5205 9.0 200417.7 -0722.7  
 5206 9.8 200440.4 -0753.5  
 5207 8.0 200453.8 -0758.8  
 5208 8.5 200455.0 -0736.1

5209 9.7 200504.3 -0732.7  
 5210 9.8 200506.3 -0738.6  
 5211 8.0 200507.3 -0752.1  
 5212 9.5 200507.7 -0756.5  
 5213 9.8 200516.0 -0715.1  
 5214 9.8 200517.4 -0749.7  
 5215 9.8 200524.9 -0750.8  
 5216 9.0 200532.7 -0731.8  
 5217 9.5 200549.6 -0706.8  
 5218 9.0 200551.1 -0721.3

5219 9.5 200601.1 -0707.1  
 5220 9.5 200622.2 -0756.5  
 5221 9.0 200627.3 -0726.8  
 5222 9.8 200634.7 -0723.1  
 5223 9.5 200640.3 -0742.5  
 5224 8.5 200644.6 -0706.6  
 5225 9.4 200700.7 -0723.6  
 5226 9.8 200724.8 -0741.4  
 5227 9.5 200725.7 -0728.4  
 5228 8.4 200729.4 -0752.8

5229 6.6 200740.5 -0758.1  
 5230 9.8 200748.2 -0734.0  
 5231 9.7 200815.4 -0749.3  
 5232 9.5 200827.5 -0728.6  
 5233 9.8 200839.2 -0705.2  
 5234 9.8 200847.1 -0745.4  
 5235 6.5 200848.4 -0752.3  
 5236 10. 200904.1 -0734.0  
 5237 8.5 200907.8 -0716.7  
 5238 9.7 200910.8 -0712.3

5239 8.9 200921.1 -0715.9  
 5240 9.0 200943.3 -0724.2  
 5241 9.8 200959.7 -0703.9  
 5242 8.5 201023.7 -0703.0  
 5243 9.6 201057.8 -0702.9  
 5244 9.1 201105.3 -0720.0  
 5245 9.3 201107.7 -0711.1  
 5246 7.8 201111.8 -0705.2  
 5247 9.0 201116.4 -0745.0  
 5248 9.0 201117.4 -0739.4

5249 9.1 201121.2 -0755.8  
 5250 9.0 201126.3 -0724.2  
 5251 9.4 201134.7 -0750.6  
 5252 9.3 201151.2 -0708.4  
 5253 9.5 201153.8 -0716.9  
 5254 9.8 201155.6 -0731.4  
 5255 9.5 201155.7 -0742.1  
 5256 9.2 201203.9 -0756.4  
 5257 9.3 201222.0 -0718.8  
 5258 9.0 201227.9 -0751.4

5259 9.3 201245.2 -0719.8  
 5260 9.0 201305.8 -0721.2  
 5261 9.5 201307.1 -0735.2  
 5262 9.4 201307.5 -0717.0  
 5263 9.0 201308.4 -0737.0  
 5264 9.8 201327.7 -0741.7  
 5265 9.4 201340.9 -0701.1  
 5266 9.5 201342.4 -0737.2  
 5267 9.1 201342.5 -0701.8  
 5268 8.7 201400.8 -0734.5

5269 8.2 201409.7 -0701.8  
 5270 9.4 201425.9 -0733.0  
 5271 9.4 201426.9 -0748.2  
 5272 9.8 201427.2 -0742.8  
 5273 9.5 201429.3 -0734.6  
 5274 9.4 201453.4 -0727.5  
 5275 9.8 201517.3 -0708.7  
 5276 9.6 201540.0 -0751.5  
 5277 9.6 201547.9 -0732.5  
 5278 9.3 201549.8 -0703.1

5279 9.5 201553.2 -0713.7  
 5280 9.8 201624.9 -0710.7  
 5281 9.0 201636.4 -0714.1  
 5282 8.7 201658.9 -0741.9  
 5283 9.0 201710.1 -0715.5  
 5284 9.8 201721.8 -0725.1  
 5285 9.5 201736.9 -0729.3  
 5286 9.2 201805.2 -0724.7  
 5287 9.5 201806.3 -0719.9  
 5288 9.6 201808.0 -0723.3

5289 9.6 201848.8 -0715.5  
 5290 9.0 201851.9 -0728.6  
 5291 9.7 201903.0 -0716.1  
 5292 9.8 201908.8 -0700.8  
 5293 9.5 201921.9 -0758.8  
 5294 9.8 201929.4 -0715.5  
 5295 9.4 201930.9 -0725.1  
 5296 9.3 201943.9 -0745.5  
 5297 9.5 201945.8 -0715.0  
 5298 9.5 201947.8 -0700.2



-07 5299 20h19m

5299 9.8 201950.8 -0708.6  
5300 9.7 201958.9 -0719.7  
5301 7.8 202006.3 -0708.9  
5302 9.5 202006.9 -0726.7  
5303 8.5 202023.3 -0757.2  
5304 9.0 202101.8 -0701.5  
5305 9.5 202107.6 -0721.6  
5306 8.9 202116.3 -0759.0  
5307 8.5 202119.4 -0729.6  
5308 9.3 202143.8 -0726.8  
  
5309 9.8 202146.4 -0719.7  
5310 9.3 202203.9 -0724.2  
5311 9.8 202204.2 -0750.1  
5312 9.8 202214.6 -0758.7  
5313 9.8 202225.8 -0745.9  
5314 9.4 202233.3 -0757.3  
5315 10. 202254.9 -0741.6  
5316 8.8 202308.0 -0736.1  
5317 9.6 202327.6 -0710.4  
5318 9.3 202400.1 -0728.4  
  
5319 9.8 202403.2 -0734.9  
5320 9.8 202426.5 -0742.0  
5321 8.8 202436.4 -0756.4  
5322 9.2 202444.1 -0752.7  
5323 9.3 202513.9 -0707.1  
5324 9.1 202537.3 -0717.7  
5325 9.5 202547.3 -0749.5  
5326 9.7 202606.0 -0714.7  
5327 9.9 202608.4 -0712.6  
5328 9.0 202616.4 -0759.9  
  
5329 9.5 202622.3 -0731.3  
5330 9.0 202625.0 -0750.3  
5331 9.0 202702.1 -0743.5  
5332 9.8 202712.1 -0757.0  
5333 9.5 202720.4 -0725.6  
5334 9.8 202729.9 -0702.8  
5335 9.1 202735.5 -0741.9  
5336 9.5 202738.6 -0749.5  
5337 9.8 202740.9 -0701.9  
5338 9.3 202755.0 -0724.2  
  
5339 9.9 202757.1 -0744.8  
5340 9.9 202759.0 -0725.4  
5341 9.2 202820.6 -0747.9  
5342 9.0 202821.9 -0710.7  
5343 9.5 202827.2 -0744.8  
5344 9.7 202839.9 -0716.2  
5345 9.8 202842.2 -0755.5  
5346 9.5 202910.4 -0709.9  
5347 9.6 202942.4 -0702.0  
5348 9.6 202949.0 -0710.8  
  
5349 8.7 202950.9 -0716.1  
5350 9.5 202956.9 -0738.6  
5351 9.3 203003.7 -0750.4  
5352 9.3 203014.0 -0721.1  
5353 9.7 203030.0 -0743.3  
5354 8.7 203046.4 -0710.9  
5355 9.5 203049.5 -0719.8  
5356 9.7 203108.5 -0721.2  
5357 9.1 203115.0 -0712.4  
5358 9.1 203118.5 -0744.7  
  
5359 9.5 203119.9 -0709.6  
5360 9.0 203120.3 -0725.2  
5361 9.4 203123.2 -0751.8  
5362 9.5 203133.6 -0753.7  
5363 9.6 203146.1 -0726.5  
5364 9.1 203228.4 -0715.6  
5365 9.3 203235.1 -0749.6  
5366 9.7 203242.4 -0712.0  
5367 9.3 203243.8 -0720.6  
5368 9.8 203252.5 -0755.8  
  
5369 8.0 203301.4 -0718.1  
5370 9.2 203302.7 -0726.6  
5371 9.4 203309.0 -0723.1  
5372 9.0 203310.7 -0717.4  
5373 8.5 203318.7 -0721.7  
5374 9.2 203328.5 -0723.9  
5375 9.6 203337.5 -0714.3  
5376 8.5 203341.6 -0742.3  
5377 9.3 203343.7 -0713.7  
5378 8.7 203401.4 -0701.3  
  
5379 9.5 203416.5 -0732.6  
5380 9.3 203438.9 -0733.6  
5381 9.4 203456.5 -0728.1  
5382 9.8 203540.0 -0711.7  
5383 9.4 203607.9 -0704.9  
5384 9.3 203616.1 -0720.0  
5385 9.5 203620.6 -0728.1  
5386 9.0 203635.7 -0752.9  
5387 9.0 203654.5 -0751.9  
5388 9.4 203715.6 -0725.5

5389 8.2 203731.1 -0716.9  
5390 9.8 203745.6 -0724.7  
5391 9.0 203746.7 -0746.9  
5392 9.8 203756.5 -0712.6  
5393 10. 203805.1 -0705.1  
5394 9.6 203847.2 -0736.2  
5395 9.6 203849.7 -0744.2  
5396 9.1 203854.1 -0724.3  
5397 9.4 203856.7 -0717.1  
5398 9.0 203902.0 -0700.5  
  
5399 9.8 203918.7 -0729.2  
5400 9.4 203930.6 -0727.7  
5401 9.4 203946.7 -0749.6  
5402 8.0 203954.6 -0738.2  
5403 9.4 204000.2 -0715.9  
5404 9.3 204002.1 -0728.6  
5405 9.6 204009.7 -0702.0  
5406 9.8 204016.1 -0721.8  
5407 9.1 204021.7 -0746.8  
5408 8.7 204025.5 -0719.8  
  
5409 9.8 204025.6 -0722.5  
5410 8.5 204043.3 -0719.7  
5411 9.0 204116.3 -0716.3  
5412 9.2 204122.3 -0736.4  
5413 7.4 204205.4 -0714.0  
5414 9.5 204220.7 -0736.6  
5415 10. 204239.2 -0726.1  
5416 9.0 204259.8 -0721.7  
5417 9.3 204320.3 -0721.7  
5418 9.9 204328.4 -0719.9  
  
5419 9.3 204342.9 -0752.0  
5420 9.8 204350.5 -0731.6  
5421 9.4 204400.5 -0745.9  
5422 9.5 204423.5 -0740.3  
5423 9.2 204425.0 -0754.9  
5424 9.2 204425.9 -0730.2  
5425 9.6 204442.3 -0710.3  
5426 9.1 204457.3 -0720.9  
5427 9.4 204458.6 -0705.2  
5428 9.2 204503.5 -0734.4  
  
5429 9.1 204506.5 -0737.5  
5430 9.1 204523.9 -0723.5  
5431 9.4 204537.2 -0751.9  
5432 9.2 204543.1 -0751.6  
5433 6.5 204614.9 -0725.8  
5434 9.0 204642.0 -0734.6  
5435 9.0 204646.5 -0743.6  
5436 9.1 204716.8 -0727.0  
5437 7.6 204719.5 -0743.0  
5438 9.6 204724.0 -0701.9  
  
5439 9.4 204730.4 -0724.5  
5440 10. 204733.7 -0703.5  
5441 9.1 204758.3 -0710.5  
5442 9.2 204805.0 -0740.0  
5443 9.4 204819.8 -0702.6  
5444 10. 204831.5 -0719.0  
5445 8.3 204842.1 -0749.0  
5446 9.3 204844.5 -0725.6  
5447 9.4 204848.0 -0738.1  
5448 8.0 204855.5 -0730.5  
  
5449 9.5 204858.2 -0714.7  
5450 8.5 204920.5 -0701.8  
5451 9.2 204927.8 -0709.3  
5452 9.5 204936.7 -0756.5  
5453 9.1 204952.1 -0712.3  
5454 10. 205005.2 -0759.2  
5455 8.5 205007.0 -0726.5  
5456 9.0 205009.8 -0701.5  
5457 9.5 205042.1 -0750.9  
5458 9.2 205044.5 -0732.1  
  
5459 9.2 205052.6 -0746.0  
5460 7.8 205123.4 -0727.7  
5461 10. 205145.1 -0738.6  
5462 9.6 20520.1 -0743.6  
5463 9.4 20521.4 -0754.9  
5464 9.1 205229.8 -0759.3  
5465 9.4 205244.9 -0754.7  
5466 9.5 205250.0 -0731.5  
5467 9.5 205253.9 -0756.5  
5468 9.8 205300.7 -0754.6  
  
5469 9.2 205308.8 -0756.1  
5470 10. 205329.6 -0720.0  
5471 9.5 205341.1 -0739.6  
5472 9.1 205352.2 -0753.9  
5473 9.8 205355.8 -0703.6  
5474 9.5 205427.0 -0755.7  
5475 9.8 205439.8 -0757.3  
5476 7.8 205513.8 -0753.5  
5477 9.6 205602.0 -0756.6  
5478 9.3 205633.1 -0731.3

5479 8.3 205642.7 -0737.3  
5480 9.3 205648.3 -0700.9  
5481 9.1 205711.5 -0719.7  
5482 9.8 205741.6 -0724.7  
5483 9.3 205742.4 -0734.6  
5484 9.0 205800.4 -0752.1  
5485 9.8 205801.0 -0749.2  
5486 9.0 205831.8 -0716.1  
5487 9.4 205840.5 -0758.9  
5488 9.5 205856.7 -0759.1  
  
5489 9.8 205910.9 -0716.2  
5490 9.1 205913.8 -0701.6  
5491 9.8 205919.1 -0725.0  
5492 9.1 205922.2 -0747.3  
5493 9.2 205934.2 -0745.5  
5494 9.8 205939.9 -0709.4  
5495 9.6 205942.5 -0718.9  
5496 9.3 210010.6 -0759.9  
5497 9.5 210019.5 -0714.6  
5498 9.4 210025.2 -0741.7  
  
5499 9.3 210051.5 -0722.4  
5500 9.8 210056.6 -0712.0  
5501 7.8 210102.7 -0734.2  
5502 9.4 210136.0 -0758.1  
5503 9.5 210201.1 -0720.5  
5504 9.3 210251.3 -0751.9  
5505 9.5 210254.7 -0730.9  
5506 9.5 210302.1 -0757.2  
5507 8.6 210342.6 -0756.1  
5508 9.8 210405.1 -0715.1  
  
5509 9.7 210422.2 -0714.1  
5510 9.4 210446.6 -0715.2  
5511 8.8 210459.6 -0727.8  
5512 8.2 210504.3 -0745.0  
5513 9.4 210511.2 -0736.5  
5514 9.2 210516.1 -0722.0  
5515 9.8 210534.5 -0712.6  
5516 8.7 210538.3 -0749.7  
5517 8.9 210539.8 -0717.2  
5518 7.3 210556.1 -0703.7  
  
5519 9.5 210617.7 -0724.7  
5520 9.3 210626.9 -0753.1  
5521 9.4 210655.2 -0747.8  
5522 7.2 210712.4 -0741.2  
5523 9.8 210716.3 -0701.9  
5524 9.0 210750.4 -0733.9  
5525 9.5 210751.3 -0728.7  
5526 9.5 210834.8 -0721.6  
5527 9.4 210841.7 -0720.3  
5528 9.5 210913.6 -0755.4  
  
5529 9.0 210956.4 -0716.6  
5530 9.5 211032.4 -0712.2  
5531 9.3 211040.0 -0757.8  
5532 10. 211043.1 -0719.3  
5533 9.6 211053.0 -0708.4  
5534 9.8 211106.9 -0737.3  
5535 9.5 211107.9 -0713.3  
5536 7.8 211111.0 -0702.6  
5537 7.8 211117.2 -0756.1  
5538 8.0 211117.8 -0744.7  
  
5539 10. 211155.3 -0741.6  
5540 9.1 211215.0 -0736.4  
5541 9.7 211218.9 -0702.1  
5542 9.6 211236.4 -0758.5  
5543 9.0 211313.0 -0724.5  
5544 9.6 211340.0 -0729.9  
5545 9.6 211440.5 -0712.2  
5546 9.3 211441.4 -0728.2  
5547 9.6 211507.2 -0756.1  
5548 9.5 211528.6 -0708.6  
  
5549 8.0 211611.3 -0712.2  
5550 8.5 211614.0 -0712.2  
5551 8.0 211629.5 -0721.6  
5552 9.7 211637.3 -0753.8  
5553 7.3 211655.2 -0719.9  
5554 9.8 211717.1 -0705.2  
5555 9.1 211726.1 -0740.1  
5556 9.3 211737.3 -0738.8  
5557 9.6 211812.7 -0708.8  
5558 9.6 211842.6 -0704.5  
  
5559 9.5 211904.6 -0725.8  
5560 9.6 211911.4 -0747.1  
5561 8.6 211918.7 -0736.3  
5562 9.5 211921.8 -0732.9  
5563 8.5 211922.6 -0706.0  
5564 9.5 211927.8 -0738.6  
5565 7.5 211942.2 -0738.5  
5566 9.8 211957.6 -0704.8  
5567 9.5 212037.1 -0751.8  
5568 9.8 212044.5 -0701.3

5569 8.7 212058.4 -0714.9  
5570 9.4 212118.6 -0747.1  
5571 8.9 212126.5 -0720.0  
5572 9.1 212150.6 -0707.1  
5573 9.5 212216.0 -0723.1  
5574 8.6 212220.1 -0755.8  
5575 9.3 212221.5 -0714.9  
5576 9.5 212233.0 -0727.9  
5577 9.6 212336.1 -0732.7  
5578 9.8 212344.6 -0714.1  
  
5579 9.0 212400.4 -0728.4  
5580 10. 212415.0 -0714.6  
5581 8.8 212448.3 -0718.5  
5582 10. 212551.2 -0709.6  
5583 9.7 212552.1 -0719.2  
5584 8.5 212600.1 -0700.8  
5585 9.5 212621.6 -0728.1  
5586 9.5 212647.7 -0743.4  
5587 9.5 212651.1 -0731.6  
5588 9.8 212714.6 -0715.4  
  
5589 9.8 212733.7 -0744.6  
5590 9.3 212811.6 -0705.9  
5591 9.5 212824.1 -0733.7  
5592 9.5 212832.2 -0738.8  
5593 9.5 212845.7 -0709.5  
5594 9.6 212851.4 -0758.9  
5595 9.6 212856.1 -0710.7  
5596 9.3 212913.7 -0710.4  
5597 9.5 212939.6 -0732.7  
5598 9.1 212959.2 -0735.2  
  
5599 9.5 213002.1 -0757.7  
5600 8.8 213003.2 -0711.6  
5601 9.7 21310.7 -0713.5  
5602 9.4 213028.6 -0705.5  
5603 9.5 213030.0 -0729.2  
5604 9.3 213033.3 -0752.0  
5605 9.3 213036.7 -0709.7  
5606 9.5 213053.2 -0757.1  
5607 9.8 213112.8 -0714.2  
5608 9.4 213133.5 -0756.1  
  
5609 9.8 213151.2 -0717.3  
5610 9.4 213152.5 -0758.6  
5611 8.2 213241.1 -0701.5  
5612 8.2 213242.7 -0727.9  
5613 7.0 213245.7 -0737.7  
5614 9.5 213301.3 -0740.8  
5615 9.0 213323.8 -0751.5  
5616 9.5 213326.2 -0748.9  
5617 9.8 213343.8 -0705.9  
5618 9.2 213419.8 -0715.3  
  
5619 8.5 213453.3 -0747.2  
5620 9.8 213457.8 -0725.8  
5621 9.9 213522.0 -0701.8  
5622 9.0 213540.2 -0721.0  
5623 9.0 213549.5 -0703.5  
5624 8.0 213633.9 -0748.9  
5625 9.3 213706.4 -0742.3  
5626 8.0 213707.8 -0700.6  
5627 8.6 213716.9 -0743.5  
5628 9.5 213719.7 -0722.8  
  
5629 8.8 213729.8 -0733.1  
5630 9.8 213733.6 -0732.0  
5631 9.4 213803.7 -0713.2  
5632 9.0 213813.9 -0745.7  
5633 9.8 213823.4 -0746.4  
5634 9.6 213849.6 -0720.4  
5635 8.8 213907.9 -0756.9  
5636 9.9 213930.7 -0734.2  
5637 7.8 214022.2 -0708.1  
5638 9.1 214036.5 -0739.4  
  
5639 8.9 214041.3 -0722.0  
5640 9.5 214045.9 -0707.9  
5641 9.6 214049.9 -0712.6  
5642 9.5 214059.8 -0736.7  
5643 9.1 214116.6 -0713.7  
5644 9.6 214137.3 -0730.7  
5645 9.5 214154.2 -0743.0  
5646 9.8 214239.9 -0704.7  
5647 9.7 214245.1 -0752.9  
5648 9.3 214258.5 -0759.4  
  
5649 9.2 214306.4 -0748.7  
5650 9.0 214343.3 -0719.8  
5651 8.2 214344.4 -0740.1  
5652 9.8 214353.4 -0704.9  
5653 9.0 214418.9 -0716.2  
5654 9.5 214421.0 -0708.1  
5655 9.5 214422.1 -0730.2  
5656 9.4 214427.9 -0739.1  
5657 9.5 214438.3 -0729.3  
5658 9.5 214503.9 -0725.7

-07 5658 21h45m



-07 5659 21h45m

5659 9.0 214514.3 -0701.4  
5660 9.1 214518.9 -0710.4  
5661 9.5 214521.8 -0725.3  
5662 9.1 214522.7 -0741.1  
5663 9.4 214601.0 -0749.4  
5664 8.7 214618.9 -0711.9  
5665 9.8 214641.9 -0714.8  
5666 9.2 214721.0 -0700.6  
5667 9.5 214811.6 -0708.2  
5668 9.5 214816.1 -0753.6

5669 7.3 214834.0 -0739.7  
5670 9.5 214843.1 -0707.8  
5671 9.4 214846.0 -0722.4  
5672 9.1 214919.4 -0724.8  
5673 9.5 214927.1 -0753.0  
5674 9.6 215001.0 -0702.9  
5675 9.8 215035.0 -0704.7  
5676 9.4 215045.9 -0712.6  
5677 9.4 215103.6 -0703.8  
5678 9.4 215106.0 -0701.9

5679 9.5 215125.9 -0711.2  
5680 9.4 215133.5 -0735.3  
5681 9.6 215157.6 -0715.0  
5682 9.4 215217.1 -0748.4  
5683 8.5 215302.6 -0707.3  
5684 9.3 215359.9 -0756.7  
5685 9.8 215411.5 -0704.7  
5686 9.3 215452.1 -0727.2  
5687 9.5 215530.5 -0715.6  
5688 6.0 215538.8 -0713.2

5689 9.5 215553.1 -0704.6  
5690 9.5 215555.1 -0751.2  
5691 9.5 215600.9 -0705.7  
5692 9.5 215604.5 -0718.9  
5693 9.5 215617.5 -0759.7  
5694 9.5 215667.0 -0725.9  
5695 8.0 215726.1 -0700.1  
5696 9.3 215740.0 -0729.9  
5697 9.5 215745.1 -0700.5  
5698 9.8 215827.1 -0707.9

5699 9.4 215834.1 -0704.1  
5700 8.6 215907.7 -0739.3  
5701 7.6 215909.1 -0725.9  
5702 9.5 215933.0 -0717.1  
5703 9.3 215947.1 -0704.7  
5704 9.5 215954.9 -0759.8  
5705 8.6 220004.1 -0734.6  
5706 9.0 220027.2 -0722.8  
5707 9.8 220032.1 -0702.0  
5708 8.2 220038.7 -0705.1

5709 9.1 220041.9 -0729.0  
5710 9.6 220042.6 -0724.5  
5711 9.0 220050.1 -0735.8  
5712 10.1 220133.1 -0725.1  
5713 8.5 220138.5 -0756.6  
5714 9.8 220146.2 -0743.2  
5715 8.7 220202.2 -0706.0  
5716 9.9 220223.2 -0704.8  
5717 9.4 220327.1 -0729.4  
5718 10.1 220327.1 -0719.3

5719 10.1 220332.2 -0723.3  
5720 9.4 220347.5 -0741.9  
5721 9.5 220400.8 -0738.9  
5722 9.3 220403.3 -0746.8  
5723 9.5 220421.8 -0741.3  
5724 9.5 220437.2 -0721.6  
5725 8.6 220442.6 -0746.6  
5726 9.9 220448.1 -0711.8  
5727 7.4 220505.2 -0711.2  
5728 10.1 220556.1 -0719.8

5729 9.5 220609.1 -0719.4  
5730 9.5 220630.2 -0733.2  
5731 9.5 220643.8 -0746.0  
5732 7.7 220705.3 -0706.9  
5733 7.7 220717.2 -0727.0  
5734 9.1 220740.5 -0728.8  
5735 8.7 220749.3 -0744.9  
5736 9.7 220828.6 -0756.6  
5737 8.5 220839.3 -0747.8  
5738 9.4 220909.7 -0730.8

5739 8.5 220910.6 -0752.0  
5740 9.4 220947.4 -0744.6  
5741 9.5 220948.5 -0719.9  
5742 9.5 221043.1 -0704.6  
5743 8.8 221051.3 -0721.6  
5744 9.5 221051.4 -0738.7  
5745 9.7 221123.0 -0756.1  
5746 9.5 221139.9 -0707.0  
5747 9.5 221222.4 -0743.1  
5748 9.5 221222.7 -0714.5

5749 9.5 221246.2 -0709.0  
5750 9.6 221247.8 -0735.7  
5751 9.0 221256.4 -0752.0  
5752 9.5 221317.9 -0753.2  
5753 9.0 221324.9 -0741.9  
5754 10.1 221332.2 -0718.6  
5755 9.1 221336.4 -0709.7  
5756 9.5 221352.0 -0721.6  
5757 10.1 221420.4 -0755.7  
5758 9.5 221422.2 -0720.6

5759 9.9 221425.9 -0717.3  
5760 8.5 221430.0 -0717.8  
5761 9.5 221437.1 -0745.6  
5762 10.1 221444.4 -0754.3  
5763 10.1 221522.4 -0742.7  
5764 9.3 221542.9 -0729.8  
5765 6.5 221555.5 -0755.4  
5766 9.5 221556.8 -0720.4  
5767 9.9 221619.9 -0712.5  
5768 9.1 221639.6 -0716.5

5769 10.1 221649.5 -0749.9  
5770 9.5 221707.4 -0710.7  
5771 10.1 221713.3 -0728.3  
5772 9.5 221718.9 -0711.1  
5773 9.1 221725.5 -0706.4  
5774 9.7 221733.9 -0728.2  
5775 10.1 221735.5 -0752.1  
5776 9.0 221749.4 -0710.2  
5777 9.7 221807.5 -0759.3  
5778 9.3 221816.4 -0737.0

5779 10.1 221816.5 -0730.9  
5780 10.1 221830.4 -0724.0  
5781 10.1 221846.4 -0707.7  
5782 9.2 221927.5 -0736.0  
5783 9.5 221934.3 -0713.4  
5784 9.1 221940.4 -0758.6  
5785 9.8 221941.6 -0744.1  
5786 9.1 221948.2 -0755.2  
5787 10.1 221952.5 -0723.4  
5788 9.4 222020.9 -0722.6

5789 9.6 222029.6 -0746.1  
5790 10.1 222119.6 -0736.8  
5791 9.6 222120.5 -0740.0  
5792 8.5 222148.8 -0747.5  
5793 10.1 222152.4 -0758.3  
5794 9.5 222221.7 -0752.1  
5795 9.5 222332.5 -0725.3  
5796 9.3 222337.1 -0749.9  
5797 6.5 222341.8 -0717.8  
5798 10.1 222342.8 -0712.0

5799 9.5 222357.7 -0749.9  
5800 9.7 222411.0 -0704.3  
5801 9.8 222411.6 -0736.5  
5802 10.1 222420.5 -0746.8  
5803 10.1 222421.3 -0709.7  
5804 9.5 222445.0 -0741.8  
5805 7.4 222457.3 -0712.9  
5806 9.7 222511.9 -0738.1  
5807 9.0 222528.5 -0755.4  
5808 9.7 222535.3 -0756.1

5809 9.0 222547.7 -0704.0  
5810 9.8 222554.0 -0719.1  
5811 9.2 222647.4 -0719.6  
5812 9.3 222649.9 -0733.5  
5813 10.1 222651.5 -0747.8  
5814 9.0 222711.3 -0728.8  
5815 9.6 222742.3 -0707.2  
5816 9.4 222801.5 -0736.9  
5817 8.5 222811.9 -0730.4  
5818 8.7 222827.6 -0749.4

5819 9.6 222851.1 -0739.0  
5820 8.9 222919.1 -0712.1  
5821 9.5 222948.6 -0746.9  
5822 9.8 223020.2 -0750.3  
5823 9.5 223022.1 -0714.3  
5824 10.1 223109.6 -0753.9  
5825 8.8 223202.2 -0744.8  
5826 9.7 223211.7 -0744.8  
5827 7.5 223238.7 -0717.4  
5828 9.0 223242.1 -0733.4

5829 9.6 223300.0 -0727.1  
5830 9.4 223344.8 -0700.1  
5831 9.8 223411.6 -0731.7  
5832 9.1 223412.9 -0718.9  
5833 8.5 223447.6 -0737.9  
5834 9.7 223452.8 -0717.5  
5835 9.8 223508.1 -0740.6  
5836 9.7 223535.8 -0709.4  
5837 8.0 223538.6 -0758.9  
5838 7.0 223540.2 -0743.3

5839 8.2 223548.8 -0709.3  
5840 10.1 223552.9 -0705.1  
5841 9.6 223605.6 -0754.8  
5842 9.1 223615.5 -0709.9  
5843 9.6 223618.2 -0718.5  
5844 10.1 223623.0 -0752.6  
5845 10.1 223657.0 -0726.7  
5846 10.1 223705.4 -0738.3  
5847 8.5 223720.2 -0739.6  
5848 9.9 223726.9 -0700.6

5849 9.6 223732.0 -0706.5  
5850 9.5 223737.6 -0724.6  
5851 9.5 223752.3 -0738.0  
5852 10.1 223810.0 -0704.8  
5853 10.1 223843.1 -0752.6  
5854 9.8 223859.5 -0707.0  
5855 10.1 223900.0 -0704.3  
5856 10.1 223919.1 -0754.0  
5857 9.6 223923.2 -0732.6  
5858 8.1 223948.6 -0729.8

5859 9.8 224000.6 -0745.4  
5860 10.1 224023.5 -0740.9  
5861 9.0 224031.0 -0719.0  
5862 10.1 224057.6 -0708.9  
5863 10.1 224109.3 -0728.1  
5864 10.1 224111.2 -0708.4  
5865 9.3 224133.0 -0754.0  
5866 9.0 224136.7 -0716.7  
5867 9.6 224150.9 -0701.3  
5868 10.1 224218.2 -0727.7

5869 9.6 224220.7 -0732.6  
5870 9.8 224243.4 -0704.1  
5871 9.4 224246.5 -0752.2  
5872 9.8 224251.4 -0710.7  
5873 8.2 224258.3 -0740.6  
5874 10.1 224304.8 -0704.3  
5875 9.7 224310.6 -0719.6  
5876 10.1 224313.3 -0759.8  
5877 9.1 224313.9 -0744.2  
5878 9.3 224317.8 -0742.9

5879 9.8 224340.7 -0725.0  
5880 9.5 224404.9 -0744.4  
5881 10.1 224449.1 -0751.3  
5882 8.7 224453.4 -0743.1  
5883 9.5 224500.7 -0713.8  
5884 9.8 224540.3 -0719.3  
5885 9.8 224558.2 -0726.9  
5886 7.0 224701.0 -0758.6  
5887 9.4 224705.0 -0702.7  
5888 9.4 224738.4 -0759.6

5889 9.8 224800.3 -0727.7  
5890 9.8 224809.7 -0712.2  
5891 8.8 224820.9 -0715.7  
5892 8.3 224848.1 -0719.2  
5893 10.1 224853.7 -0707.8  
5894 9.8 224921.3 -0721.2  
5895 9.1 224931.8 -0735.8  
5896 9.4 224941.2 -0754.9  
5897 8.7 225011.3 -0721.7  
5898 9.0 225101.7 -0713.8

5899 10.1 225114.9 -0701.0  
5900 9.5 225121.8 -0757.1  
5901 9.5 225146.9 -0704.1  
5902 8.6 225157.5 -0722.9  
5903 9.2 225215.2 -0709.5  
5904 9.5 225229.0 -0704.1  
5905 9.5 225242.4 -0730.7  
5906 9.2 225303.1 -0750.5  
5907 9.4 225306.3 -0759.2  
5908 9.4 225346.9 -0713.2

5909 9.5 225348.2 -0730.4  
5910 6.8 225351.1 -0749.9  
5911 8.5 225412.6 -0744.3  
5912 10.1 225454.9 -0717.8  
5913 6.8 225500.8 -0721.2  
5914 10.1 225501.7 -0704.6  
5915 9.4 225508.5 -0707.5  
5916 9.4 225513.1 -0742.8  
5917 10.1 225516.4 -0739.4  
5918 9.4 225527.5 -0708.7

5919 10.1 225531.5 -0756.9  
5920 9.6 225533.4 -0753.1  
5921 9.5 225558.5 -0733.9  
5922 9.4 225610.6 -0707.1  
5923 10.1 225630.5 -0757.8  
5924 9.0 225639.6 -0705.9  
5925 8.0 225651.9 -0728.1  
5926 9.3 225716.4 -0724.2  
5927 10.1 225743.0 -0720.8  
5928 10.1 225746.0 -0705.8

5929 9.5 225749.8 -0723.5  
5930 9.4 225750.2 -0726.7  
5931 8.9 225756.4 -0756.8  
5932 9.0 225852.6 -0736.9  
5933 9.9 225855.1 -0712.5  
5934 9.8 225924.6 -0740.5  
5935 9.6 230010.9 -0754.9  
5936 9.8 230022.1 -0713.6  
5937 9.5 230028.0 -0724.3  
5938 9.5 230029.9 -0708.1

5939 9.5 230041.7 -0707.5  
5940 9.4 230121.0 -0723.0  
5941 9.2 230122.6 -0735.7  
5942 10.1 230134.0 -0705.1  
5943 8.5 230217.9 -0752.6  
5944 9.9 230247.5 -0734.0  
5945 9.7 230256.3 -0735.0  
5946 9.5 230259.8 -0751.7  
5947 9.4 230310.4 -0710.6  
5948 10.1 230339.6 -0719.2

5949 9.8 230350.0 -0714.5  
5950 10.1 230417.3 -0729.4  
5951 10.1 230428.5 -0711.2  
5952 9.5 230432.4 -0741.7  
5953 9.4 230441.8 -0732.9  
5954 9.7 230443.1 -0750.8  
5955 9.3 230458.2 -0728.0  
5956 9.3 230515.1 -0751.0  
5957 9.1 230522.5 -0744.6  
5958 10.1 230558.1 -0750.2

5959 9.1 230559.6 -0706.8  
5960 9.5 230612.7 -0705.7  
5961 9.7 230617.6 -0701.6  
5962 9.7 230619.7 -0724.3  
5963 5.0 230642.9 -0737.0  
5964 9.1 230708.3 -0732.8  
5965 9.4 230713.7 -0730.1  
5966 10.1 230714.6 -0752.8  
5967 9.8 230715.4 -0712.3  
5968 9.6 230727.7 -0703.1

5969 9.8 230738.1 -0715.0  
5970 10.1 230749.7 -0715.3  
5971 9.9 230803.0 -0705.2  
5972 9.4 230812.6 -0728.1  
5973 8.7 230826.5 -0740.8  
5974 9.0 230907.6 -0748.4  
5975 7.3 230927.8 -0757.0  
5976 9.4 230956.5 -0712.2  
5977 9.7 231017.2 -0715.7  
5978 10.1 231047.0 -0706.5

5979 9.5 231116.8 -0722.1  
5980 9.5 231126.2 -0750.2  
5981 9.3 231128.7 -0704.7  
5982 9.0 231129.9 -0730.8  
5983 9.4 231140.3 -0708.5  
5984 9.5 231154.7 -0700.5  
5985 9.5 231218.0 -0729.3  
5986 9.4 231223.8 -0752.6  
5987 9.5 231231.0 -0750.2  
5988 9.3 231305.3 -0724.2

5989 8.7 231308.2 -0714.9  
5990 8.2 231312.4 -0724.8  
5991 10.1 231335.1 -0728.2  
5992 10.1 231341.9 -0756.5  
5993 8.0 231345.1 -0748.7  
5994 8.9 231423.9 -0716.5  
5995 9.8 231438.1 -0742.0  
5996 9.8 231452.0 -0716.7  
5997 9.1 231456.2 -0745.8  
5998 8.5 231456.8 -0735.5

5999 10.1 231501.9 -0724.7  
6000 9.3 231528.2 -0718.2  
6001 8.7 231531.4 -0723.5  
6002 9.4 231645.4 -0705.2  
6003 9.5 231650.8 -0701.7  
6004 8.7 231657.7 -0745.8  
6005 9.2 231659.5 -0730.2  
6006 9.1 231706.6 -0712.9  
6007 9.7 231712.5 -0710.8  
6008 9.1 231738.7 -0746.9

6009 10.1 231750.3 -0749.8  
6010 9.5 231804.0 -0724.3  
6011 8.9 231837.3 -0756.1  
6012 7.0 231904.9 -0724.2  
6013 10.1 231913.2 -0701.8  
6014 9.3 231926.8 -0750.5  
6015 10.1 231943.2 -0734.6  
6016 9.4 231956.7 -0719.2  
6017 9.4 232003.1 -0727.9  
6018 9.1 232007.7 -0746.2



|      |     |          |         |      |     |          |         |     |     |         |         |     |     |         |         |
|------|-----|----------|---------|------|-----|----------|---------|-----|-----|---------|---------|-----|-----|---------|---------|
| 6019 | 9.5 | 232042.4 | -0707.7 | 6109 | 9.4 | 234644.1 | -0717.8 | 46  | 9.8 | 01313.0 | -0818.1 | 136 | 10. | 03833.3 | -0835.0 |
| 6020 | 10. | 232057.3 | -0737.3 | 6110 | 9.0 | 234658.6 | -0738.0 | 47  | 9.6 | 01319.0 | -0853.6 | 137 | 10. | 03835.3 | -0845.2 |
| 6021 | 9.2 | 232104.9 | -0747.9 | 6111 | 9.9 | 234659.7 | -0719.0 | 48  | 10. | 01345.5 | -0840.1 | 138 | 9.7 | 03912.6 | -0834.9 |
| 6022 | 9.9 | 232108.3 | -0708.8 | 6112 | 9.5 | 234710.0 | -0750.8 | 49  | 9.2 | 01414.9 | -0817.9 | 139 | 9.5 | 03937.3 | -0835.9 |
| 6023 | 9.4 | 232111.3 | -0708.2 | 6113 | 9.7 | 234855.7 | -0727.8 | 50  | 10. | 01451.7 | -0842.5 | 140 | 9.5 | 04011.3 | -0833.1 |
| 6024 | 9.8 | 232128.4 | -0726.0 | 6114 | 9.4 | 234917.1 | -0739.4 | 51  | 9.5 | 01509.8 | -0836.8 | 141 | 9.4 | 04015.3 | -0800.4 |
| 6025 | 9.3 | 232129.9 | -0726.4 | 6115 | 8.7 | 234937.1 | -0703.8 | 52  | 9.5 | 01524.9 | -0858.7 | 142 | 9.5 | 04127.0 | -0830.8 |
| 6026 | 9.5 | 232200.3 | -0738.6 | 6116 | 9.0 | 234944.2 | -0743.2 | 53  | 10. | 01539.5 | -0840.3 | 143 | 9.5 | 04152.5 | -0824.0 |
| 6027 | 8.2 | 232207.3 | -0738.3 | 6117 | 9.4 | 235097.7 | -0743.7 | 54  | 9.4 | 01603.2 | -0847.9 | 144 | 9.8 | 04216.1 | -0826.3 |
| 6028 | 8.7 | 232210.4 | -0706.4 | 6118 | 9.7 | 235010.6 | -0706.7 | 55  | 9.3 | 01612.2 | -0848.2 | 145 | 9.8 | 04224.6 | -0837.9 |
| 6029 | 9.0 | 232229.9 | -0703.7 | 6119 | 9.2 | 235026.3 | -0754.6 | 56  | 9.4 | 01650.7 | -0827.7 | 146 | 9.0 | 04227.9 | -0846.2 |
| 6030 | 9.5 | 232230.1 | -0725.3 | 6120 | 10. | 235101.3 | -0702.7 | 57  | 8.9 | 01716.7 | -0844.1 | 147 | 9.2 | 04237.9 | -0853.4 |
| 6031 | 10. | 232234.1 | -0724.4 | 6121 | 9.7 | 235117.5 | -0755.2 | 58  | 9.0 | 01800.2 | -0821.6 | 148 | 9.5 | 04242.6 | -0839.7 |
| 6032 | 9.8 | 232315.0 | -0725.4 | 6122 | 9.5 | 235118.5 | -0724.9 | 59  | 9.8 | 01829.7 | -0859.5 | 149 | 9.7 | 04245.3 | -0833.0 |
| 6033 | 9.5 | 232319.2 | -0715.8 | 6123 | 8.8 | 235148.7 | -0742.1 | 60  | 9.5 | 01831.0 | -0807.0 | 150 | 9.7 | 04346.0 | -0819.5 |
| 6034 | 9.8 | 232325.9 | -0721.4 | 6124 | 9.8 | 235203.5 | -0710.3 | 61  | 9.2 | 01831.8 | -0843.4 | 151 | 9.5 | 04355.0 | -0843.7 |
| 6035 | 9.6 | 232326.0 | -0703.8 | 6125 | 9.6 | 235310.2 | -0709.5 | 62  | 9.7 | 01905.9 | -0854.8 | 152 | 9.7 | 04359.4 | -0842.1 |
| 6036 | 6.8 | 232332.0 | -0705.0 | 6126 | 9.2 | 235311.6 | -0736.5 | 63  | 9.6 | 01941.8 | -0831.0 | 153 | 9.5 | 04417.1 | -0822.9 |
| 6037 | 9.0 | 232402.7 | -0725.5 | 6127 | 10. | 235311.8 | -0704.9 | 64  | 9.1 | 01945.0 | -0806.9 | 154 | 8.5 | 04430.8 | -0857.2 |
| 6038 | 9.8 | 232412.2 | -0751.7 | 6128 | 9.7 | 235318.1 | -0734.0 | 65  | 8.1 | 01945.9 | -0840.7 | 155 | 9.8 | 04500.6 | -0823.3 |
| 6039 | 9.6 | 232421.8 | -0712.8 | 6129 | 9.1 | 235359.7 | -0700.9 | 66  | 9.5 | 01951.1 | -0815.9 | 156 | 9.5 | 04528.6 | -0825.1 |
| 6040 | 10. | 232425.7 | -0725.8 | 6130 | 9.6 | 235401.4 | -0745.8 | 67  | 9.4 | 01955.1 | -0812.9 | 157 | 9.7 | 04531.9 | -0841.3 |
| 6041 | 10. | 232445.4 | -0741.8 | 6131 | 9.7 | 235416.1 | -0724.8 | 68  | 9.5 | 02006.0 | -0846.4 | 158 | 9.4 | 04607.0 | -0812.4 |
| 6042 | 10. | 232502.8 | -0710.0 | 6132 | 10. | 235420.4 | -0750.1 | 69  | 9.7 | 02018.3 | -0823.1 | 159 | 9.1 | 04617.7 | -0828.1 |
| 6043 | 10. | 232503.3 | -0734.7 | 6133 | 9.4 | 235421.0 | -0729.6 | 70  | 10. | 02026.3 | -0826.3 | 160 | 10. | 04644.6 | -0857.2 |
| 6044 | 9.1 | 232505.7 | -0726.7 | 6134 | 9.3 | 235436.3 | -0746.4 | 71  | 9.7 | 02032.5 | -0850.7 | 161 | 9.6 | 04702.6 | -0852.5 |
| 6045 | 9.6 | 232530.0 | -0719.6 | 6135 | 9.0 | 235451.9 | -0746.8 | 72  | 9.5 | 02040.4 | -0831.1 | 162 | 9.5 | 04717.4 | -0820.5 |
| 6046 | 7.7 | 232542.5 | -0712.0 | 6136 | 9.6 | 235515.9 | -0752.9 | 73  | 10. | 02044.6 | -0809.7 | 163 | 8.8 | 04723.4 | -0801.4 |
| 6047 | 9.0 | 232552.8 | -0733.5 | 6137 | 9.2 | 235521.7 | -0704.0 | 74  | 10. | 02047.0 | -0857.5 | 164 | 9.1 | 04807.3 | -0838.8 |
| 6048 | 9.7 | 232553.7 | -0746.4 | 6138 | 9.8 | 235603.2 | -0701.1 | 75  | 9.5 | 02056.9 | -0833.0 | 165 | 8.2 | 04821.7 | -0850.4 |
| 6049 | 9.9 | 232605.2 | -0703.4 | 6139 | 9.9 | 235633.3 | -0741.4 | 76  | 9.8 | 02104.1 | -0812.0 | 166 | 9.8 | 04821.7 | -0857.7 |
| 6050 | 9.6 | 232619.8 | -0748.7 | 6140 | 9.1 | 235636.4 | -0747.7 | 77  | 9.5 | 02130.8 | -0822.9 | 167 | 6.2 | 04822.5 | -0807.7 |
| 6051 | 9.0 | 232658.4 | -0717.0 | 6141 | 9.8 | 235648.2 | -0731.9 | 78  | 8.6 | 02143.4 | -0830.2 | 168 | 7.8 | 04849.1 | -0848.4 |
| 6052 | 8.8 | 232802.2 | -0757.0 | 6142 | 8.0 | 235705.2 | -0746.3 | 79  | 9.4 | 02218.2 | -0814.2 | 169 | 8.0 | 04852.2 | -0821.8 |
| 6053 | 9.9 | 232829.5 | -0737.8 | 6143 | 9.1 | 235720.0 | -0717.4 | 80  | 9.8 | 02249.3 | -0822.7 | 170 | 10. | 04910.7 | -0849.3 |
| 6054 | 9.3 | 232839.7 | -0701.9 | 6144 | 9.5 | 235730.0 | -0741.6 | 81  | 8.7 | 02307.4 | -0853.2 | 171 | 9.5 | 05022.4 | -0848.0 |
| 6055 | 7.8 | 232849.1 | -0755.1 | 6145 | 9.5 | 235730.3 | -0738.0 | 82  | 9.0 | 02324.8 | -0816.3 | 172 | 9.5 | 05024.6 | -0803.5 |
| 6056 | 9.2 | 232909.4 | -0752.2 | 6146 | 9.8 | 235731.4 | -0759.5 | 83  | 9.1 | 02331.4 | -0824.1 | 173 | 9.3 | 05109.6 | -0856.4 |
| 6057 | 9.2 | 232918.9 | -0757.1 | 6147 | 9.5 | 235759.0 | -0755.8 | 84  | 9.3 | 02415.9 | -0825.0 | 174 | 9.0 | 05126.8 | -0831.8 |
| 6058 | 9.2 | 232927.6 | -0731.2 | 6148 | 9.4 | 235829.3 | -0706.7 | 85  | 9.8 | 02427.5 | -0804.5 | 175 | 9.8 | 05141.5 | -0844.1 |
| 6059 | 10. | 232938.8 | -0705.8 | 6149 | 9.9 | 235858.8 | -0725.4 | 86  | 9.4 | 02456.3 | -0833.4 | 176 | 9.0 | 05222.4 | -0858.6 |
| 6060 | 9.7 | 232953.3 | -0706.4 | 6150 | 9.4 | 235920.9 | -0704.3 | 87  | 8.8 | 02457.3 | -0818.6 | 177 | 9.4 | 05246.8 | -0813.7 |
| 6061 | 9.5 | 233012.3 | -0701.3 | 6151 | 9.7 | 235922.8 | -0700.3 | 88  | 9.7 | 02552.2 | -0817.3 | 178 | 9.8 | 05302.5 | -0818.0 |
| 6062 | 9.6 | 233104.9 | -0746.0 | 6152 | 9.2 | 235931.2 | -0745.4 | 89  | 9.9 | 02616.8 | -0840.0 | 179 | 9.2 | 05344.9 | -0831.1 |
| 6063 | 9.6 | 233143.3 | -0746.2 | 6153 | 9.4 | 235953.4 | -0756.3 | 90  | 9.8 | 02732.6 | -0800.0 | 180 | 9.5 | 05350.8 | -0825.4 |
| 6064 | 10. | 233159.7 | -0719.8 | 1    | 10. | 00000.0  | -0829.4 | 91  | 9.5 | 02734.0 | -0854.3 | 181 | 9.7 | 05407.4 | -0807.6 |
| 6065 | 10. | 233200.9 | -0708.9 | 2    | 8.2 | 00015.2  | -0843.7 | 92  | 9.5 | 02821.8 | -0839.1 | 182 | 9.0 | 05509.0 | -0848.5 |
| 6066 | 10. | 233203.2 | -0724.4 | 3    | 8.0 | 00035.9  | -0821.0 | 93  | 8.1 | 02826.0 | -0842.0 | 183 | 9.8 | 05536.8 | -0817.5 |
| 6067 | 9.2 | 233242.3 | -0702.2 | 4    | 10. | 00100.6  | -0800.4 | 94  | 9.7 | 02834.0 | -0351.1 | 184 | 9.8 | 05617.4 | -0811.1 |
| 6068 | 9.7 | 233312.2 | -0759.6 | 5    | 8.5 | 00124.4  | -0842.2 | 95  | 9.6 | 02845.5 | -0324.3 | 185 | 8.9 | 05654.7 | -0857.9 |
| 6069 | 9.3 | 233327.3 | -0701.3 | 6    | 9.9 | 00125.0  | -0825.8 | 96  | 9.2 | 02848.6 | -0648.5 | 186 | 8.3 | 05719.4 | -0827.2 |
| 6070 | 8.2 | 233341.5 | -0716.9 | 7    | 9.9 | 00134.8  | -0850.2 | 97  | 9.1 | 02907.1 | -0831.5 | 187 | 9.1 | 05749.8 | -0846.2 |
| 6071 | 9.8 | 233449.2 | -0730.4 | 8    | 10. | 00248.8  | -0837.5 | 98  | 10. | 02914.3 | -0824.4 | 188 | 9.8 | 05815.9 | -0824.8 |
| 6072 | 9.8 | 233557.0 | -0729.5 | 9    | 9.5 | 00302.7  | -0834.0 | 99  | 9.0 | 02925.5 | -0826.4 | 189 | 10. | 05823.7 | -0853.0 |
| 6073 | 9.0 | 233600.8 | -0733.1 | 10   | 9.1 | 00326.6  | -0804.1 | 100 | 10. | 02936.4 | -0821.7 | 190 | 9.8 | 05826.8 | -0801.9 |
| 6074 | 8.3 | 233622.4 | -0704.7 | 11   | 9.7 | 00334.9  | -0849.1 | 101 | 8.9 | 03002.7 | -0835.5 | 191 | 9.8 | 05846.6 | -0822.2 |
| 6075 | 9.3 | 233627.9 | -0739.8 | 12   | 9.1 | 00338.7  | -0838.1 | 102 | 9.6 | 03004.0 | -0825.2 | 192 | 9.8 | 05849.5 | -0843.0 |
| 6076 | 9.6 | 233632.6 | -0718.9 | 13   | 8.5 | 00344.3  | -0810.9 | 103 | 9.5 | 03010.4 | -0839.5 | 193 | 9.8 | 05911.5 | -0814.5 |
| 6077 | 9.5 | 233705.2 | -0724.8 | 14   | 9.8 | 00352.6  | -0858.0 | 104 | 9.4 | 03011.7 | -0858.0 | 194 | 9.7 | 05936.5 | -0828.1 |
| 6078 | 8.6 | 233720.4 | -0744.7 | 15   | 9.3 | 00429.9  | -0803.3 | 105 | 10. | 03016.7 | -0847.2 | 195 | 9.8 | 05949.4 | -0837.2 |
| 6079 | 9.4 | 233816.3 | -0735.1 | 16   | 8.5 | 00441.7  | -0830.6 | 106 | 9.4 | 03029.0 | -0805.8 | 196 | 9.0 | 05950.3 | -0811.1 |
| 6080 | 9.7 | 233829.2 | -0723.3 | 17   | 9.5 | 00455.2  | -0822.4 | 107 | 9.4 | 03029.7 | -0838.8 | 197 | 9.4 | 05959.8 | -0805.7 |
| 6081 | 9.1 | 233848.8 | -0730.7 | 18   | 7.8 | 00543.6  | -0829.6 | 108 | 9.2 | 03051.9 | -0813.4 | 198 | 10. | 05961.8 | -0858.0 |
| 6082 | 8.8 | 233859.4 | -0706.5 | 19   | 9.0 | 00557.8  | -0842.3 | 109 | 9.6 | 03202.8 | -0803.7 | 199 | 9.3 | 05975.5 | -0826.3 |
| 6083 | 9.3 | 233934.0 | -0741.6 | 20   | 8.0 | 00608.6  | -0824.5 | 110 | 7.9 | 03223.6 | -0848.1 | 200 | 9.2 | 05981.5 | -0826.8 |
| 6084 | 9.4 | 234100.1 | -0754.3 | 21   | 9.5 | 00609.9  | -0827.1 | 111 | 10. | 03229.1 | -0852.4 | 201 | 9.0 | 05987.6 | -0835.5 |
| 6085 | 9.2 | 234103.4 | -0735.3 | 22   | 9.8 | 00615.8  | -0839.6 | 112 | 9.8 | 03234.4 | -0809.1 | 202 | 9.1 | 06001.9 | -0854.1 |
| 6086 | 6.3 | 234105.0 | -0711.4 | 23   | 9.5 | 00624.8  | -0855.1 | 113 | 8.5 | 03239.5 | -0840.0 | 203 | 9.3 | 06015.3 | -0853.6 |
| 6087 | 9.2 | 234126.5 | -0742.8 | 24   | 8.0 | 00645.1  | -0800.0 | 114 | 7.7 | 03302.1 | -0826.8 | 204 | 9.4 | 06024.4 | -0840.9 |
| 6088 | 9.8 | 234127.4 | -0703.8 | 25   | 9.3 | 00649.5  | -0800.0 | 115 | 10. | 03304.7 | -0828.5 | 205 | 8.8 | 06044.3 | -0800.5 |
| 6089 | 9.0 | 234139.0 | -0746.1 | 26   | 5.8 | 00702.6  | -0835.1 | 116 | 9.4 | 03311.2 | -0815.2 | 206 | 9.6 | 06047.9 | -0843.5 |
| 6090 | 9.7 | 234154.3 | -0723.8 | 27   | 8.9 | 00716.5  | -0828.9 | 117 | 7.0 | 03325.6 | -0801.3 | 207 | 8.8 | 06051.5 | -0829.7 |
| 6091 | 10. | 234205.0 | -0738.6 | 28   | 9.3 | 00756.5  | -0802.0 | 118 | 9.7 | 03414.5 | -0819.2 | 208 | 9.0 | 06052.0 | -0849.5 |
| 6092 | 9.8 | 234212.5 | -0743.9 | 29   | 8.5 | 00818.4  | -0806.8 | 119 | 8.2 | 03430.3 | -0853.2 | 209 | 9.1 | 06053.5 | -0849.5 |
| 6093 | 8.7 | 234373.0 | -0704.3 | 30   | 9.8 | 00818.6  | -0816.2 | 120 | 9.5 | 03454.1 | -0803.7 | 210 | 8.1 | 06244.2 | -0841.8 |
| 6094 | 9.5 | 234403.4 | -0724.6 | 31   | 9.3 | 00827.5  | -08     |     |     |         |         |     |     |         |         |



|     |     |         |         |
|-----|-----|---------|---------|
| 226 | 9.1 | 11127.7 | -0823.8 |
| 227 | 8.6 | 11158.7 | -0828.0 |
| 228 | 9.8 | 11140.2 | -0856.7 |
| 229 | 8.6 | 11144.3 | -0845.4 |
| 230 | 9.0 | 11211.2 | -0851.5 |
| 231 | 9.5 | 11248.0 | -0802.4 |
| 232 | 9.5 | 11304.0 | -0841.7 |
| 233 | 8.8 | 11409.0 | -0845.6 |
| 234 | 9.5 | 11425.3 | -0845.2 |
| 235 | 9.8 | 11430.4 | -0810.0 |

|     |     |         |         |
|-----|-----|---------|---------|
| 236 | 9.8 | 11437.7 | -0805.7 |
| 237 | 9.1 | 11508.0 | -0802.9 |
| 238 | 9.2 | 11528.2 | -0815.7 |
| 239 | 9.3 | 11531.3 | -0841.6 |
| 240 | 9.8 | 11532.8 | -0824.6 |
| 241 | 9.5 | 11534.4 | -0848.0 |
| 242 | 9.8 | 11643.9 | -0828.0 |
| 243 | 6.7 | 11645.1 | -0845.7 |
| 244 | 3.2 | 11646.4 | -0855.6 |
| 245 | 10. | 11712.0 | -0840.9 |

|     |     |         |         |
|-----|-----|---------|---------|
| 246 | 9.7 | 11734.4 | -0802.6 |
| 247 | 10. | 11748.1 | -0825.0 |
| 248 | 9.6 | 11908.3 | -0821.4 |
| 249 | 9.5 | 11919.7 | -0802.9 |
| 250 | 8.6 | 12012.5 | -0805.7 |
| 251 | 9.3 | 12020.3 | -0820.7 |
| 252 | 9.4 | 12020.6 | -0803.6 |
| 253 | 9.7 | 12106.2 | -0805.8 |
| 254 | 9.2 | 12118.5 | -0836.2 |
| 255 | 9.6 | 12220.5 | -0801.2 |

|     |     |         |         |
|-----|-----|---------|---------|
| 256 | 9.8 | 12231.4 | -0815.1 |
| 257 | 9.8 | 12238.4 | -0812.4 |
| 258 | 8.9 | 12256.2 | -0840.5 |
| 259 | 9.8 | 12321.5 | -0821.6 |
| 260 | 7.9 | 12329.8 | -0849.0 |
| 261 | 9.4 | 12332.9 | -0851.7 |
| 262 | 9.4 | 12347.3 | -0853.3 |
| 263 | 9.7 | 12432.9 | -0913.0 |
| 264 | 9.7 | 12444.8 | -0904.7 |
| 265 | 8.8 | 12537.0 | -0954.0 |

|     |     |         |         |
|-----|-----|---------|---------|
| 266 | 9.4 | 12539.2 | -0845.1 |
| 267 | 9.3 | 12601.4 | -0814.4 |
| 268 | 9.5 | 12629.1 | -0839.3 |
| 269 | 8.2 | 12640.1 | -0818.6 |
| 270 | 9.5 | 12650.4 | -0858.1 |
| 271 | 9.5 | 12654.6 | -0855.8 |
| 272 | 9.4 | 12726.7 | -0840.5 |
| 273 | 8.6 | 12731.1 | -0807.0 |
| 274 | 8.2 | 12803.3 | -0818.7 |
| 275 | 10. | 12809.3 | -0843.4 |

|     |     |         |         |
|-----|-----|---------|---------|
| 276 | 10. | 12840.7 | -0821.6 |
| 277 | 9.2 | 12855.1 | -0818.3 |
| 278 | 8.3 | 12934.2 | -0811.1 |
| 279 | 9.8 | 13005.0 | -0826.9 |
| 280 | 9.7 | 13005.4 | -0805.7 |
| 281 | 9.0 | 13024.9 | -0827.8 |
| 282 | 9.5 | 13041.6 | -0854.5 |
| 283 | 9.7 | 13122.7 | -0843.3 |
| 284 | 9.7 | 13137.5 | -0827.9 |
| 285 | 9.5 | 13138.7 | -0820.3 |

|     |     |         |         |
|-----|-----|---------|---------|
| 286 | 9.0 | 13156.4 | -0800.7 |
| 287 | 9.5 | 13210.2 | -0834.1 |
| 288 | 9.0 | 13216.7 | -0808.0 |
| 289 | 8.5 | 13247.3 | -0810.9 |
| 290 | 9.4 | 13309.6 | -0855.4 |
| 291 | 9.6 | 13325.4 | -0845.2 |
| 292 | 9.5 | 13356.9 | -0813.8 |
| 293 | 9.5 | 13413.1 | -0853.9 |
| 294 | 9.7 | 13422.5 | -0841.8 |
| 295 | 10. | 13434.3 | -0831.1 |

|     |     |         |         |
|-----|-----|---------|---------|
| 296 | 10. | 13436.0 | -0858.4 |
| 297 | 8.8 | 13517.2 | -0851.0 |
| 298 | 9.0 | 13537.3 | -0835.8 |
| 299 | 9.5 | 13554.6 | -0830.7 |
| 300 | 10. | 13616.1 | -0851.6 |
| 301 | 9.9 | 13634.2 | -0848.5 |
| 302 | 7.5 | 13637.9 | -0812.9 |
| 303 | 9.1 | 13645.7 | -0848.0 |
| 304 | 9.7 | 13653.2 | -0820.3 |
| 305 | 9.3 | 13737.1 | -0849.5 |

|     |     |         |         |
|-----|-----|---------|---------|
| 306 | 9.5 | 13844.1 | -0839.0 |
| 307 | 9.4 | 13846.6 | -0824.1 |
| 308 | 9.2 | 13902.6 | -0850.5 |
| 309 | 9.5 | 13910.5 | -0817.1 |
| 310 | 9.8 | 13951.3 | -0850.5 |
| 311 | 9.5 | 14008.7 | -0828.1 |
| 312 | 8.3 | 14017.3 | -0836.3 |
| 313 | 9.8 | 14042.2 | -0852.1 |
| 314 | 9.6 | 14106.4 | -0810.3 |
| 315 | 9.5 | 14169.2 | -0829.1 |

|     |     |         |         |
|-----|-----|---------|---------|
| 316 | 9.0 | 14113.4 | -0859.1 |
| 317 | 9.3 | 14140.7 | -0806.3 |
| 318 | 9.1 | 14150.0 | -0809.5 |
| 319 | 9.7 | 14150.3 | -0802.6 |
| 320 | 9.4 | 14205.7 | -0824.6 |
| 321 | 9.1 | 14209.0 | -0808.7 |
| 322 | 9.3 | 14221.6 | -0800.1 |
| 323 | 9.4 | 14229.6 | -0815.0 |
| 324 | 8.2 | 14240.6 | -0801.3 |
| 325 | 8.3 | 14408.4 | -0847.6 |

|     |     |         |         |
|-----|-----|---------|---------|
| 326 | 8.3 | 14417.2 | -0827.2 |
| 327 | 8.8 | 14431.4 | -0849.6 |
| 328 | 9.3 | 14456.4 | -0834.2 |
| 329 | 9.5 | 14500.5 | -0858.2 |
| 330 | 9.3 | 14517.9 | -0855.1 |
| 331 | 9.0 | 14527.7 | -0822.8 |
| 332 | 8.5 | 14539.3 | -0832.8 |
| 333 | 9.1 | 14548.3 | -0826.6 |
| 334 | 10. | 14625.6 | -0840.1 |
| 335 | 10. | 14650.0 | -0821.4 |

|     |     |         |         |
|-----|-----|---------|---------|
| 336 | 9.4 | 14653.3 | -0802.3 |
| 337 | 9.4 | 14659.8 | -0834.3 |
| 338 | 9.2 | 14717.2 | -0835.7 |
| 339 | 8.2 | 14714.1 | -0805.1 |
| 340 | 9.8 | 14745.1 | -0839.2 |
| 341 | 10. | 14745.1 | -0812.1 |
| 342 | 9.5 | 14748.0 | -0843.2 |
| 343 | 9.6 | 14812.7 | -0812.5 |
| 344 | 9.8 | 14830.8 | -0820.3 |
| 345 | 9.5 | 14857.0 | -0936.0 |

|     |     |         |         |
|-----|-----|---------|---------|
| 346 | 7.5 | 15000.5 | -0831.6 |
| 347 | 9.5 | 15001.8 | -0824.2 |
| 348 | 9.2 | 15009.9 | -0849.5 |
| 349 | 8.2 | 15019.2 | -0814.4 |
| 350 | 9.5 | 15030.5 | -0832.0 |
| 351 | 9.5 | 15032.5 | -0850.7 |
| 352 | 9.7 | 15056.7 | -0802.6 |
| 353 | 9.8 | 15100.8 | -0847.2 |
| 354 | 8.2 | 15117.3 | -0819.5 |
| 355 | 8.8 | 15218.1 | -0842.7 |

|     |     |         |         |
|-----|-----|---------|---------|
| 356 | 9.5 | 15220.2 | -0849.1 |
| 357 | 9.5 | 15221.2 | -0809.5 |
| 358 | 9.3 | 15239.7 | -0810.9 |
| 359 | 9.5 | 15257.6 | -0850.2 |
| 360 | 8.8 | 15332.1 | -0804.8 |
| 361 | 10. | 15348.1 | -0828.1 |
| 362 | 9.9 | 15353.6 | -0833.5 |
| 363 | 9.5 | 15353.8 | -0820.2 |
| 364 | 9.5 | 15419.1 | -0851.1 |
| 365 | 9.7 | 15443.1 | -0840.2 |

|     |     |         |         |
|-----|-----|---------|---------|
| 366 | 9.6 | 15446.5 | -0845.9 |
| 367 | 8.3 | 15510.5 | -0809.5 |
| 368 | 9.5 | 15451.6 | -0815.8 |
| 369 | 9.0 | 15552.8 | -0806.5 |
| 370 | 9.8 | 15554.3 | -0801.6 |
| 371 | 9.3 | 15555.4 | -0807.0 |
| 372 | 9.5 | 15641.3 | -0824.8 |
| 373 | 9.9 | 15654.5 | -0813.2 |
| 374 | 9.0 | 15736.9 | -0834.7 |
| 375 | 9.8 | 15759.2 | -0847.8 |

|     |     |         |         |
|-----|-----|---------|---------|
| 376 | 9.5 | 15804.2 | -0818.8 |
| 377 | 9.1 | 15818.8 | -0842.7 |
| 378 | 10. | 15842.2 | -0817.0 |
| 379 | 9.5 | 15915.7 | -0813.5 |
| 380 | 9.5 | 15917.2 | -0814.4 |
| 381 | 9.6 | 15936.6 | -0836.4 |
| 382 | 9.8 | 15954.5 | -0853.8 |
| 383 | 10. | 15959.6 | -0821.6 |
| 384 | 9.5 | 20011.5 | -0838.6 |
| 385 | 9.0 | 20041.6 | -0833.0 |

|     |     |         |         |
|-----|-----|---------|---------|
| 186 | 9.0 | 20016.8 | -0841.9 |
| 387 | 9.4 | 20077.2 | -0804.8 |
| 788 | 9.6 | 20166.5 | -0808.6 |
| 389 | 10. | 0112.9  | -0849.2 |
| 390 | 9.4 | 10138.0 | -0803.5 |
| 391 | 9.0 | 20203.1 | -0832.9 |
| 392 | 9.5 | 20217.9 | -0827.8 |
| 393 | 9.8 | 20230.8 | -0849.4 |
| 394 | 9.8 | 20268.1 | -0810.5 |
| 395 | 9.0 | 20276.4 | -0822.2 |

|     |     |         |        |
|-----|-----|---------|--------|
| 396 | 9.7 | 20557.5 | -0844  |
| 397 | 9.0 | 20411.1 | -0800. |
| 398 | 9.6 | 20401.3 | -0813. |
| 399 | 9.8 | 20412.7 | -0827. |
| 400 | 9.1 | 20508.2 | -0812. |
| 401 | 9.0 | 20534.8 | -0814. |
| 402 | 9.7 | 20536.7 | -0843. |
| 403 | 9.0 | 20545.6 | -0819. |
| 404 | 9.6 | 20608.7 | -0813. |
| 405 | 8.8 | 20619.1 | -0804. |

|     |     |         |         |
|-----|-----|---------|---------|
| 406 | 8.5 | 20641.7 | -0838.3 |
| 407 | 9.5 | 20716.6 | -0806.2 |
| 408 | 9.8 | 20718.6 | -0832.3 |
| 409 | 9.1 | 20732.8 | -0814.0 |
| 410 | 9.1 | 20741.8 | -0846.8 |
| 411 | 8.3 | 20750.6 | -0814.7 |
| 412 | 9.5 | 20838.2 | -0855.9 |
| 413 | 9.4 | 20830.2 | -0808.4 |
| 414 | 9.1 | 20855.7 | -0854.3 |
| 415 | 9.0 | 20857.8 | -0808.5 |

|     |     |         |         |
|-----|-----|---------|---------|
| 416 | 9.5 | 20929.6 | -0826.7 |
| 417 | 9.0 | 20939.5 | -0819.8 |
| 418 | 9.5 | 21033.5 | -0822.3 |
| 419 | 9.0 | 21037.4 | -0850.9 |
| 420 | 9.0 | 21112.7 | -0805.5 |
| 421 | 9.2 | 21123.8 | -0846.4 |
| 422 | 7.5 | 21140.8 | -0807.7 |
| 423 | 9.4 | 21253.5 | -0817.3 |
| 424 | 9.8 | 21259.6 | -0827.0 |
| 425 | 9.6 | 21308.6 | -0846.3 |

|     |     |         |          |
|-----|-----|---------|----------|
| 426 | 9.1 | 21314.5 | --0859.2 |
| 427 | 9.5 | 21357.2 | --0806.7 |
| 428 | 7.3 | 21430.7 | --0812.3 |
| 429 | 9.2 | 21440.1 | --0837.8 |
| 430 | 9.0 | 21500.3 | --0808.8 |
| 431 | 9.6 | 21507.4 | --0833.5 |
| 432 | 9.4 | 21526.5 | --0849.5 |
| 433 | 9.4 | 21537.9 | --0838.4 |
| 434 | 9.2 | 21604.4 | --0806.0 |
| 435 | 8.3 | 21607.8 | --0828.3 |

|     |     |         |         |
|-----|-----|---------|---------|
| 436 | 10. | 21618.5 | -0846.3 |
| 437 | 10. | 21619.7 | -0843.8 |
| 438 | 8.9 | 21651.4 | -0831.4 |
| 439 | 9.1 | 21654.8 | -0848.5 |
| 440 | 7.9 | 21659.2 | -0803.6 |
| 441 | 10. | 21719.7 | -0814.2 |
| 442 | 9.0 | 21723.4 | -0833.6 |
| 443 | 9.5 | 21759.4 | -0812.3 |
| 444 | 9.8 | 21808.7 | -0840.6 |
| 445 | 9.1 | 21815.0 | -0853.5 |

|     |     |         |          |
|-----|-----|---------|----------|
| 446 | 9.1 | 21842.1 | --0852.2 |
| 447 | 9.7 | 21851.9 | --0852.9 |
| 448 | 9.5 | 21855.8 | --0826.0 |
| 449 | 9.5 | 21916.5 | --0839.0 |
| 450 | 9.8 | 21921.0 | --0812.6 |
| 451 | 9.7 | 21829.1 | --0844.0 |
| 452 | 9.4 | 21848.3 | --0829.6 |
| 453 | 9.2 | 22043.4 | --0859.2 |
| 454 | 9.6 | 22048.2 | --0859.0 |
| 455 | 9.5 | 22119.7 | --0818.0 |

|     |     |         |         |
|-----|-----|---------|---------|
| 456 | 9.1 | 22112.9 | -0801.0 |
| 457 | 9.5 | 22130.6 | -0313.0 |
| 458 | 9.3 | 22161.0 | -0834.0 |
| 459 | 9.6 | 22162.7 | -0851.2 |
| 460 | 9.1 | 22145.0 | -0859.8 |
| 461 | 9.5 | 22169.9 | -0827.0 |
| 462 | 10. | 22152.1 | -0843.2 |
| 463 | 10. | 22212.2 | -0841.0 |
| 464 | 9.5 | 22234.0 | -0807.0 |
| 465 | 9.0 | 22243.8 | -0843.0 |

|     |     |         |        |
|-----|-----|---------|--------|
| 466 | 10. | 22323.6 | -0824. |
| 467 | 9.2 | 22336.6 | -0813. |
| 468 | 7.5 | 22346.5 | -0838. |
| 469 | 8.9 | 22412.9 | -0827. |
| 470 | 9.1 | 22425.7 | -0814. |
| 471 | 9.6 | 22437.7 | -0855. |
| 472 | 9.4 | 22443.1 | -0835. |
| 473 | 9.4 | 22443.0 | -0837. |
| 474 | 9.6 | 22501.9 | -0800. |
| 475 | 9.0 | 22512.9 | -0826. |

|     |     |         |        |
|-----|-----|---------|--------|
| 476 | 9.9 | 22534.0 | -3801. |
| 477 | 9.4 | 22538.8 | -0871. |
| 478 | 9.9 | 22604.3 | -0857. |
| 479 | 9.4 | 22608.2 | -0837. |
| 480 | 8.8 | 22649.1 | -0836. |
| 481 | 9.5 | 22649.3 | -0802. |
| 482 | 10. | 22705.9 | -0841. |
| 483 | 9.7 | 22729.6 | -0846. |
| 484 | 6.0 | 22733.0 | -0329. |
| 485 | 8.7 | 22754.9 | -0821. |

|     |     |         |        |
|-----|-----|---------|--------|
| 486 | 10. | 22755.9 | -0848. |
| 487 | 9.4 | 22818.3 | -0823. |
| 488 | 8.9 | 22850.0 | -0830. |
| 489 | 6.0 | 22851.5 | -0827. |
| 490 | 9.8 | 22918.3 | -0855. |
| 491 | 9.1 | 22923.0 | -0826. |
| 492 | 9.5 | 22928.3 | -0857. |
| 493 | 8.3 | 22949.4 | -0858. |
| 494 | 9.5 | 23013.6 | -0834. |
| 495 | 9.4 | 23022.0 | -0829. |

|     |     |         |         |
|-----|-----|---------|---------|
| 496 | 9.1 | 23027.2 | -0840.7 |
| 497 | 8.3 | 23111.3 | -0813.5 |
| 498 | 8.3 | 23127.0 | -0909.5 |
| 499 | 8.6 | 23212.9 | -0853.0 |
| 500 | 9.5 | 23202.7 | -0840.5 |
| 501 | 9.1 | 23247.6 | -0836.2 |
| 502 | 9.8 | 23249.2 | -0857.0 |
| 503 | 9.5 | 23315.1 | -0811.7 |
| 504 | 8.5 | 23315.4 | -0803.3 |
| 505 | 9.5 | 23349.2 | -0807.4 |

|     |     |         |         |
|-----|-----|---------|---------|
| 506 | 8.7 | 23355.0 | -0830.0 |
| 507 | 9.9 | 23358.3 | -0853.4 |
| 508 | 9.7 | 23401.3 | -0807.0 |
| 509 | 9.3 | 23452.6 | -0843.4 |
| 510 | 9.5 | 23509.4 | -0802.8 |
| 511 | 9.0 | 23527.6 | -0804.0 |
| 512 | 9.5 | 23553.7 | -0831.9 |
| 513 | 8.5 | 23612.5 | -0854.3 |
| 514 | 9.5 | 23644.7 | -0829.3 |
| 515 | 6.8 | 23647.7 | -0831.7 |

|     |     |         |         |
|-----|-----|---------|---------|
| 516 | 8.5 | 23733.0 | -0837.5 |
| 517 | 9.0 | 23739.5 | -0838.7 |
| 518 | 9.4 | 23751.5 | -0855.4 |
| 519 | 10. | 23755.5 | -0823.4 |
| 520 | 10. | 23821.6 | -0850.0 |
| 521 | 10. | 23848.5 | -0854.9 |
| 522 | 8.0 | 23925.2 | -0838.2 |
| 523 | 9.1 | 23948.2 | -0834.5 |
| 524 | 10. | 23949.0 | -0814.6 |
| 525 | 9.2 | 24021.2 | -0842.1 |

|     |     |         |         |
|-----|-----|---------|---------|
| 526 | 9.9 | 24118.9 | -0843.1 |
| 527 | 10. | 24138.5 | -0858.5 |
| 528 | 9.3 | 24167.5 | -0820.7 |
| 529 | 9.2 | 24153.4 | -0817.7 |
| 530 | 9.6 | 24155.2 | -0801.5 |
| 531 | 10. | 24216.9 | -0813.4 |
| 532 | 10. | 24309.1 | -0856.1 |
| 533 | 9.5 | 24330.6 | -0823.5 |
| 534 | 8.8 | 24406.6 | -0855.5 |
| 535 | 9.1 | 24438.5 | -0852.1 |

|     |     |         |        |
|-----|-----|---------|--------|
| 536 | 7.8 | 24508.6 | -0851. |
| 537 | 9.4 | 24515.2 | -0830. |
| 538 | 9.2 | 24517.5 | -0831. |
| 539 | 9.4 | 24530.7 | -0849. |
| 540 | 9.2 | 24551.2 | -0800. |
| 541 | 9.2 | 24557.0 | -0817. |
| 542 | 9.6 | 24627.9 | -0845. |
| 543 | 7.0 | 24628.1 | -0819. |
| 544 | 9.7 | 24705.1 | -0855. |
| 545 | 9.7 | 24725.1 | -0821. |

|     |     |         |        |
|-----|-----|---------|--------|
| 546 | 9.5 | 24734.4 | -0836. |
| 547 | 8.1 | 24801.3 | -0825. |
| 548 | 9.1 | 24817.6 | -0853. |
| 549 | 9.6 | 24839.5 | -0851. |
| 550 | 9.5 | 24841.6 | -0819. |
| 551 | 9.5 | 24909.7 | -0805. |
| 552 | 8.3 | 24920.0 | -0815. |
| 553 | 9.8 | 24943.7 | -0824. |
| 554 | 9.5 | 24951.6 | -0857. |
| 555 | 9.5 | 25027.0 | -0808. |

|     |     |         |        |
|-----|-----|---------|--------|
| 556 | 9.3 | 25078.1 | -0853. |
| 557 | 9.1 | 25215.9 | -0840. |
| 558 | 9.5 | 25246.7 | -0840. |
| 559 | 7.8 | 25312.9 | -0842. |
| 560 | 9.2 | 25327.6 | -0816. |
| 561 | 4.0 | 25256.2 | -0856. |
| 562 | 6.0 | 25402.1 | -0816. |
| 563 | 9.2 | 25408.1 | -0805. |
| 564 | 8.9 | 25415.3 | -0859. |
| 565 | 9.2 | 25427.7 | -0819. |

|     |     |         |        |
|-----|-----|---------|--------|
| 566 | 9.4 | 25450.0 | -0806. |
| 567 | 9.1 | 25520.0 | -0836. |
| 568 | 6.0 | 25535.1 | -0814. |
| 569 | 9.3 | 25555.0 | -0857. |
| 570 | 9.1 | 25602.5 | -0835. |
| 571 | 9.0 | 25607.8 | -0849. |
| 572 | 6.0 | 25709.6 | -0810. |
| 573 | 9.1 | 25727.0 | -0830. |
| 574 | 9.5 | 25728.6 | -0808. |
| 575 | 9.3 | 25740.3 | -0819. |

|     |     |         |        |
|-----|-----|---------|--------|
| 576 | 9.8 | 25245.2 | -0852. |
| 577 | 6.9 | 25805.5 | -0850. |
| 578 | 9.5 | 25825.1 | -0801. |
| 579 | 9.1 | 25838.8 | -0870. |
| 580 | 9.4 | 25907.0 | -0800. |
| 581 | 9.8 | 25930.3 | -0836. |
| 582 | 9.1 | 25933.5 | -0851. |
| 583 | 9.3 | 25941.5 | -0851. |
| 584 | 9.4 | 30012.1 | -0806. |
| 585 | 9.8 | 30028.7 | -0848. |



-08 586 3h00m

586 9.1 30029.8 -0816.7  
587 9.1 30040.9 -0824.0  
588 9.8 30117.2 -0845.7  
589 9.4 30125.8 -0843.8  
590 9.5 30126.3 -0845.9  
591 9.5 30211.9 -0823.2  
592 10. 30217.2 -0842.3  
593 8.8 30245.8 -0820.9  
594 9.5 30311.5 -0832.5  
595 9.1 30313.8 -0858.1  
  
596 9.8 30358.7 -0806.7  
597 9.8 30420.4 -0839.3  
598 9.5 30452.4 -0853.6  
599 8.9 30522.6 -0835.7  
600 8.8 30527.7 -0811.8  
601 9.3 30551.5 -0839.8  
602 9.3 30553.2 -0835.9  
603 9.3 30620.1 -0829.9  
604 9.1 30630.7 -0803.3  
605 9.9 30644.5 -0854.2  
  
606 9.5 30712.7 -0836.3  
607 9.8 30731.6 -0845.7  
608 8.5 30744.5 -0840.4  
609 9.5 30808.0 -0823.5  
610 9.7 30818.8 -0806.2  
611 9.3 30827.8 -0840.4  
612 9.3 30835.4 -0854.0  
613 9.8 30847.0 -0854.4  
614 7.5 30901.6 -0827.5  
615 9.7 30956.1 -0802.3  
  
616 9.5 30958.5 -0826.9  
617 10. 30959.9 -0853.6  
618 9.1 31002.2 -0836.3  
619 8.8 31024.1 -0810.2  
620 9.1 31029.4 -0832.7  
621 9.4 31047.3 -0812.1  
622 9.7 31148.0 -0819.0  
623 9.5 31151.7 -0846.7  
624 9.5 31202.3 -0851.7  
625 9.4 31207.5 -0851.7  
  
626 9.0 31229.6 -0824.8  
627 9.6 31233.0 -0843.0  
628 9.5 31235.5 -0817.4  
629 9.9 31242.4 -0850.7  
630 10. 31309.9 -0843.6  
631 9.3 31320.7 -0827.5  
632 8.8 31347.0 -0800.4  
633 9.8 31353.1 -0854.3  
634 9.8 31353.7 -0849.4  
635 9.8 31408.2 -0827.7  
  
636 9.4 31422.5 -0851.6  
637 8.5 31435.0 -0801.3  
638 9.2 31444.8 -0838.0  
639 9.0 31500.8 -0857.4  
640 9.5 31502.2 -0827.0  
641 9.3 31542.8 -0841.0  
642 9.7 31604.9 -0857.7  
643 6.5 31612.1 -0818.0  
644 9.1 31637.4 -0810.0  
645 9.4 31640.8 -0833.4  
  
646 9.8 31802.8 -0829.0  
647 9.5 31804.2 -0819.9  
648 8.2 31841.8 -0843.7  
649 10. 31854.6 -0823.3  
650 9.4 31904.7 -0826.9  
651 10. 31919.2 -0803.3  
652 10. 31922.7 -0827.9  
653 7.8 31951.8 -0829.7  
654 9.5 32015.1 -0801.0  
655 9.1 32039.4 -0856.7  
  
656 9.3 32103.5 -0827.3  
657 9.8 32122.1 -0843.4  
658 9.1 32208.0 -0834.9  
659 9.4 32255.2 -0855.4  
660 10. 32319.7 -0853.5  
661 9.5 32330.2 -0819.7  
662 9.6 32357.2 -0854.9  
663 9.7 32359.4 -0800.8  
664 9.0 32400.2 -0836.4  
665 9.7 32457.3 -0825.8  
  
666 7.3 32458.8 -0819.5  
667 9.4 32507.3 -0836.7  
668 8.3 32521.2 -0857.5  
669 9.5 32529.4 -0804.9  
670 10. 32543.5 -0835.7  
671 9.7 32546.9 -0848.6  
672 9.5 32633.5 -0804.9  
673 9.8 32652.8 -0857.7  
674 9.5 32752.6 -0844.3  
675 8.8 32806.3 -0821.2

676 9.1 32842.2 -0816.8  
677 9.6 32844.2 -0850.0  
678 9.7 32912.0 -0833.0  
679 9.8 32939.7 -0848.6  
680 9.1 32939.9 -0859.4  
681 9.4 33001.1 -0857.6  
682 9.6 33032.2 -0813.2  
683 9.0 33039.6 -0844.0  
684 9.8 33042.0 -0852.9  
685 8.8 33046.9 -0808.6  
  
686 9.5 33047.3 -0852.9  
687 10. 33047.6 -0833.9  
688 8.3 33050.6 -0807.5  
689 9.0 33056.4 -0858.6  
690 8.0 33057.8 -0821.1  
691 9.4 33139.0 -0849.4  
692 7.2 33148.4 -0858.7  
693 9.1 33157.9 -0824.0  
694 8.3 33225.1 -0829.2  
695 9.4 33235.0 -0822.1  
  
696 8.3 33237.2 -0818.3  
697 9.3 33237.8 -0850.2  
698 10. 33314.3 -0833.3  
699 8.0 33314.9 -0833.4  
700 9.1 33325.2 -0835.8  
701 9.8 33326.0 -0840.4  
702 10. 33403.6 -0807.6  
703 10. 33411.4 -0807.8  
704 9.5 33432.9 -0828.5  
705 9.2 33510.5 -0803.7  
  
706 9.0 33516.7 -0808.3  
707 9.2 33537.5 -0859.9  
708 9.1 33556.4 -0833.9  
709 8.8 33630.6 -0831.7  
710 7.5 33652.9 -0820.4  
711 9.6 33654.0 -0840.3  
712 9.2 33715.3 -0813.0  
713 9.5 33722.1 -0851.2  
714 9.8 33732.6 -0833.8  
715 9.6 33738.0 -0806.1  
  
716 9.3 33740.9 -0830.0  
717 9.6 33815.5 -0826.5  
718 7.9 33822.5 -0823.8  
719 10. 33823.8 -0803.0  
720 9.3 33830.7 -0850.4  
721 9.6 33848.2 -0848.4  
722 9.5 33915.8 -0805.9  
723 8.3 33921.0 -0837.4  
724 10. 33932.3 -0846.9  
725 8.4 33959.4 -0849.1  
  
726 9.3 34019.3 -0812.3  
727 10. 34052.0 -0833.4  
728 8.3 34103.3 -0829.4  
729 9.6 34206.0 -0819.1  
730 8.8 34228.4 -0840.5  
731 9.8 34240.2 -0829.2  
732 9.2 34244.8 -0834.6  
733 8.5 34250.3 -0830.5  
734 9.4 34331.9 -0848.2  
735 9.8 34404.1 -0802.3  
  
736 9.1 34428.4 -0834.9  
737 9.0 34429.1 -0804.7  
738 9.5 34451.2 -0843.2  
739 9.2 34523.5 -0839.6  
740 8.2 34536.6 -0855.1  
741 9.5 34541.2 -0840.5  
742 9.7 34556.4 -0813.6  
743 9.7 34616.1 -0850.3  
744 8.5 34624.7 -0826.7  
745 9.5 34715.4 -0821.1  
  
746 9.2 34716.5 -0812.4  
747 9.6 34718.9 -0854.4  
748 9.1 34721.9 -0802.8  
749 10. 34731.2 -0856.3  
750 10. 34733.9 -0853.1  
751 8.2 34740.1 -0840.5  
752 9.4 34747.5 -0805.7  
753 9.8 34757.7 -0846.0  
754 9.8 34812.8 -0856.5  
755 9.8 34820.8 -0859.2  
  
756 9.2 34842.7 -0826.0  
757 7.6 34903.3 -0803.9  
758 9.5 34917.1 -0819.5  
759 9.7 34934.3 -0855.0  
760 8.5 35006.1 -0853.2  
761 9.8 35008.7 -0854.6  
762 8.8 35028.7 -0823.1  
763 9.1 35044.4 -0845.2  
764 9.8 35154.2 -0817.8  
765 8.9 35212.7 -0803.3

766 9.7 35241.7 -0836.5  
767 8.8 35245.9 -0834.3  
768 9.0 35308.0 -0859.7  
769 8.9 35431.4 -0801.7  
770 9.1 35508.8 -0842.1  
771 9.1 35516.9 -0832.4  
772 9.5 35548.4 -0822.2  
773 9.3 35555.1 -0841.3  
774 8.4 35602.3 -0840.5  
775 9.6 35647.2 -0836.9  
  
776 9.1 35708.0 -0850.9  
777 9.5 35715.7 -0833.7  
778 8.4 35719.2 -0839.1  
779 9.8 35735.8 -0800.5  
780 9.5 35737.6 -0820.2  
781 9.8 35740.0 -0841.6  
782 9.1 35807.9 -0858.9  
783 9.8 35814.7 -0831.3  
784 9.4 35824.3 -0812.1  
785 8.0 35916.6 -0813.4  
  
786 9.2 35924.3 -0813.9  
787 8.5 35941.5 -0853.0  
788 9.5 35947.9 -0804.0  
789 9.8 40017.0 -0856.6  
790 9.5 40024.0 -0851.0  
791 9.0 40049.5 -0820.1  
792 9.0 40108.2 -0812.5  
793 10. 40118.0 -0854.2  
794 10. 40129.6 -0814.6  
795 9.3 40130.2 -0827.7  
  
796 9.0 40134.9 -0819.6  
797 9.0 40155.6 -0829.2  
798 7.2 40219.2 -0818.7  
799 9.5 40222.0 -0802.7  
800 9.4 40231.1 -0817.4  
801 7.2 40239.6 -0816.4  
802 9.5 40240.8 -0804.5  
803 9.3 40250.3 -0824.1  
804 10. 40316.3 -0859.6  
805 9.1 40331.3 -0813.8  
  
806 9.8 40444.1 -0816.4  
807 8.9 40459.0 -0831.8  
808 9.8 40609.0 -0858.3  
809 9.4 40635.6 -0845.2  
810 9.4 40653.4 -0849.0  
811 9.9 40758.8 -0849.5  
812 9.3 40804.1 -0812.6  
813 9.7 40808.5 -0855.1  
814 9.0 40828.1 -0834.6  
815 7.8 40844.0 -0859.7  
  
816 9.7 40854.4 -0833.7  
817 9.9 40854.7 -0836.9  
818 10. 40910.7 -0826.6  
819 8.8 40912.5 -0830.1  
820 8.8 40914.1 -0833.5  
821 10. 40922.4 -0851.9  
822 9.5 40931.0 -0826.3  
823 10. 40959.2 -0829.4  
824 9.1 41036.1 -0800.3  
825 9.2 41048.0 -0829.6  
  
826 9.4 41106.9 -0823.8  
827 9.3 41208.6 -0831.0  
828 9.5 41214.7 -0816.6  
829 7.3 41231.5 -0828.3  
830 8.8 41232.5 -0854.0  
831 9.6 41239.3 -0846.5  
832 9.5 41309.8 -0807.5  
833 10. 41330.4 -0834.3  
834 9.7 41342.7 -0844.6  
835 10. 41357.6 -0821.1  
  
836 9.4 41409.9 -0839.8  
837 10. 41422.6 -0807.4  
838 9.5 41423.0 -0805.0  
839 7.8 41435.6 -0827.3  
840 10. 41452.9 -0817.0  
841 9.5 41514.1 -0807.6  
842 9.0 41522.0 -0854.5  
843 9.1 41541.9 -0840.9  
844 8.5 41546.7 -0845.6  
845 9.0 41606.6 -0826.8  
  
846 7.5 41618.6 -0802.4  
847 9.1 41654.8 -0853.6  
848 9.8 41659.2 -0812.0  
849 9.5 41659.4 -0832.3  
850 10. 41714.4 -0803.0  
851 9.4 41728.8 -0841.7  
852 10. 41746.1 -0805.7  
853 9.0 41747.9 -0822.2  
854 9.5 41807.5 -0852.1  
855 9.0 41808.3 -0837.6

-08 945 4h41m

856 9.5 41810.0 -0849.9  
857 9.4 41813.6 -0800.3  
858 9.5 41832.4 -0819.1  
859 9.5 41850.8 -0818.9  
860 9.5 41909.3 -0840.5  
861 9.0 41924.7 -0811.8  
862 9.8 41946.1 -0852.5  
863 8.7 42024.8 -0843.6  
864 8.2 42033.2 -0831.3  
865 9.4 42048.3 -0857.8  
  
866 8.9 42048.8 -0841.4  
867 10. 42131.2 -0829.1  
868 9.5 42225.3 -0814.4  
869 9.0 42309.0 -0822.4  
870 10. 42405.6 -0854.2  
871 9.2 42437.2 -0808.6  
872 9.2 42507.8 -0844.3  
873 10. 42538.1 -0827.8  
874 9.8 42548.8 -0821.1  
875 9.0 42553.1 -0827.6  
  
876 9.1 42555.9 -0814.7  
877 9.5 42557.0 -0819.9  
878 9.0 42607.7 -0853.9  
879 8.2 42628.3 -0808.6  
880 9.5 42631.0 -0817.3  
881 9.1 42631.6 -0859.6  
882 9.4 42635.6 -0850.1  
883 9.7 42637.4 -0817.3  
884 7.0 42638.8 -0833.8  
885 8.8 42646.8 -0809.1  
  
886 9.0 42657.5 -0837.8  
887 4.6 42713.6 -0832.0  
888 9.3 42713.7 -0825.0  
889 9.4 42739.4 -0805.7  
890 9.6 42739.6 -0842.6  
891 8.5 42808.8 -0859.4  
892 8.0 42822.4 -0835.6  
893 9.5 42823.3 -0834.9  
894 7.7 42951.9 -0845.2  
895 9.8 43001.5 -0840.4  
  
896 8.6 43012.2 -0843.5  
897 9.1 43027.8 -0857.7  
898 8.5 43034.9 -0839.9  
899 10. 43054.4 -0835.4  
900 10. 43115.7 -0845.1  
901 8.5 43121.8 -0834.1  
902 9.6 43140.6 -0801.3  
903 7.7 43153.9 -0831.2  
904 10. 43201.9 -0857.0  
905 9.3 43218.2 -0830.6  
  
906 9.4 43223.5 -0816.4  
907 9.2 43277.7 -0806.5  
908 9.5 43247.1 -0820.0  
909 9.8 43249.8 -0853.1  
910 9.2 43328.0 -0805.0  
911 9.7 43351.4 -0800.1  
912 9.3 43357.3 -0806.1  
913 9.2 43403.6 -0857.1  
914 8.1 43430.2 -0827.7  
915 9.1 43444.0 -0800.2  
  
916 9.1 43521.8 -0854.3  
917 9.7 43524.3 -0803.0  
918 9.3 43533.7 -0849.6  
919 9.5 43551.3 -0854.6  
920 9.4 43558.5 -0812.2  
921 9.3 43603.9 -0810.7  
922 9.5 43616.3 -0800.9  
923 9.0 43618.6 -0846.4  
924 9.3 43629.4 -0847.2  
925 9.7 43640.6 -0805.2  
  
926 9.6 43642.3 -0843.5  
927 9.1 43650.9 -0831.0  
928 10. 43653.3 -0803.5  
929 5.8 43707.3 -0846.2  
930 10. 43717.4 -0805.5  
931 9.5 43729.8 -0823.4  
932 9.7 43733.7 -0847.9  
933 9.8 43746.6 -0818.2  
934 9.0 43812.5 -0832.3  
935 9.5 43835.1 -0813.7  
  
936 9.8 43901.7 -0822.3  
937 9.5 43923.8 -0854.0  
938 9.1 43953.3 -0835.7  
939 9.7 44046.7 -0844.7  
940 9.4 44047.6 -0825.3  
941 8.9 44054.4 -0857.6  
942 8.5 44101.5 -0832.7  
943 9.1 44102.0 -0822.6  
944 9.3 44131.0 -0800.5  
945 9.5 44148.1 -0811.9



-08 946 4h41m

946 8.8 44158.5 -0808.8  
947 9.8 44214.3 -0825.0  
948 8.0 44229.7 -0822.5  
949 8.7 44239.8 -0850.3  
950 9.5 44257.5 -0837.1  
951 9.0 44303.8 -0853.5  
952 9.0 44304.5 -0848.8  
953 10.1 44318.2 -0823.6  
954 9.4 44320.0 -0843.1  
955 9.5 44328.0 -0843.4

956 8.5 44400.9 -0826.1  
957 9.1 44403.8 -0805.4  
958 9.5 44433.8 -0840.6  
959 10.1 44443.2 -0821.7  
960 7.3 44443.4 -0839.0  
961 8.6 44450.3 -0805.6  
962 9.0 44513.0 -0804.3  
963 8.0 44521.0 -0808.2  
964 8.6 44523.1 -0855.6  
965 9.1 44548.4 -0855.4

966 8.8 44549.7 -0853.9  
967 9.5 44554.3 -0823.3  
968 9.5 44555.4 -0839.1  
969 9.6 44601.2 -0848.5  
970 9.0 44618.1 -0810.4  
971 9.2 44659.6 -0834.7  
972 9.8 44705.4 -0818.9  
973 9.7 44748.6 -0848.1  
974 9.7 44755.6 -0849.0  
975 9.5 44821.2 -0808.4

976 9.5 44823.3 -0848.2  
977 9.4 44839.5 -0829.1  
978 8.2 44847.0 -0808.0  
979 9.7 44849.9 -0849.4  
980 9.3 44933.4 -0804.7  
981 10.1 44955.4 -0844.0  
982 9.8 44955.5 -0855.9  
983 9.8 44959.2 -0815.4  
984 7.1 45001.5 -0841.0  
985 9.0 45005.8 -0856.9

986 9.8 45031.8 -0822.2  
987 9.4 45032.1 -0850.4  
988 9.8 45049.2 -0808.7  
989 8.8 45101.2 -0817.0  
990 9.8 45116.8 -0820.5  
991 9.5 45122.0 -0854.6  
992 10.1 45123.6 -0835.0  
993 9.1 45133.1 -0809.6  
994 8.8 45137.0 -0808.2  
995 9.4 45151.0 -0857.3

996 9.8 45156.4 -0848.0  
997 9.6 45214.5 -0825.5  
998 8.0 45218.1 -0800.2  
999 9.2 45224.1 -0858.7  
1000 8.6 45254.4 -0802.4  
1001 9.0 45301.8 -0818.9  
1002 9.5 45317.0 -0806.5  
1003 8.6 45320.9 -0813.7  
1004 8.6 45323.0 -0851.9  
1005 8.5 45328.5 -0830.3

1006 9.8 45410.7 -0805.5  
1007 8.5 45421.8 -0856.3  
1008 9.1 45426.9 -0800.5  
1009 10.1 45453.8 -0814.2  
1010 9.6 45544.7 -0839.0  
1011 8.0 45551.3 -0824.9  
1012 9.4 45604.8 -0834.9  
1013 7.0 45605.5 -0852.2  
1014 8.8 45608.6 -0807.5  
1015 9.5 45622.3 -0807.5

1016 9.5 45627.4 -0822.1  
1017 9.6 45705.8 -0838.9  
1018 9.3 45715.9 -0819.2  
1019 8.5 45724.6 -0826.1  
1020 9.1 45729.2 -0813.0  
1021 9.0 45748.2 -0834.0  
1022 8.8 45753.2 -0820.0  
1023 8.4 45803.3 -0845.6  
1024 9.8 45806.2 -0842.5  
1025 9.0 45810.7 -0829.7

1026 9.5 45818.7 -0812.2  
1027 9.3 45820.6 -0808.9  
1028 9.8 45843.8 -0834.9  
1029 9.1 45849.2 -0842.7  
1030 10.1 45857.6 -0826.3  
1031 10.1 45859.5 -0822.7  
1032 10.1 45918.4 -0817.8  
1033 9.0 45959.9 -0844.6  
1034 9.4 50024.6 -0812.0  
1035 7.5 50030.0 -0850.4

1036 9.0 50052.8 -0836.6  
1037 7.0 50124.1 -0851.1  
1038 9.2 50125.8 -0851.3  
1039 9.7 50156.6 -0852.1  
1040 4.2 50212.2 -0856.4  
1041 9.0 50219.9 -0843.2  
1042 9.5 50235.9 -0803.5  
1043 9.5 50308.1 -0814.1  
1044 9.0 50309.9 -0839.6  
1045 9.2 50334.7 -0819.1

1046 9.8 50351.4 -0840.1  
1047 9.5 50356.8 -0828.5  
1048 9.5 50405.6 -0811.9  
1049 9.5 50410.8 -0837.4  
1050 9.0 50416.6 -0844.3  
1051 9.0 50422.1 -0848.5  
1052 9.5 50455.9 -0841.4  
1053 9.1 50457.6 -0801.1  
1054 9.5 50512.7 -0803.7  
1055 9.3 50512.9 -0846.8

1056 9.0 50532.9 -0848.5  
1057 8.0 50559.6 -0814.1  
1058 10.1 50616.8 -0843.1  
1059 7.0 50634.7 -0819.0  
1060 9.3 50653.9 -0840.0  
1061 9.0 50705.2 -0805.8  
1062 9.5 50714.9 -0845.8  
1063 1.0 50733.7 -0822.1  
1064 9.6 50742.2 -0809.1  
1065 9.0 50749.9 -0847.1

1066 9.5 50750.9 -0842.7  
1067 9.3 50807.0 -0808.6  
1068 9.3 50845.1 -0852.4  
1069 9.5 50846.8 -0818.9  
1070 9.5 50903.7 -0811.7  
1071 9.3 50914.0 -0842.1  
1072 9.0 50929.9 -0831.4  
1073 8.8 50942.0 -0838.1  
1074 9.3 50945.1 -0851.9  
1075 9.5 51001.9 -0828.3

1076 9.3 51011.2 -0811.3  
1077 9.2 51014.1 -0803.2  
1078 8.4 51047.8 -0848.7  
1079 8.0 51103.0 -0822.9  
1080 10.1 51127.7 -0851.2  
1081 9.3 51129.9 -0802.6  
1082 9.6 51136.4 -0843.5  
1083 9.3 51154.3 -0849.5  
1084 9.5 51204.1 -0812.1  
1085 9.1 51207.5 -0848.4

1086 9.5 51216.2 -0818.8  
1087 9.1 51230.2 -0808.2  
1088 9.2 51241.0 -0812.5  
1089 9.3 51244.1 -0805.7  
1090 10.1 51252.6 -0805.5  
1091 9.5 51258.2 -0831.8  
1092 8.0 51325.1 -0810.4  
1093 9.0 51325.8 -0810.3  
1094 9.7 51343.3 -0840.2  
1095 10.1 51357.2 -0825.4

1096 9.0 51411.2 -0826.7  
1097 9.5 51457.2 -0828.1  
1098 9.8 51511.2 -0802.2  
1099 7.0 51522.4 -0848.1  
1100 9.0 51523.2 -0824.0  
1101 9.2 51543.0 -0800.7  
1102 9.1 51554.1 -0802.0  
1103 8.8 51555.0 -0814.1  
1104 9.3 51556.4 -0844.9  
1105 8.4 51606.3 -0814.8

1106 10.1 51618.2 -0841.2  
1107 6.7 51621.3 -0833.4  
1108 9.5 51635.5 -0837.9  
1109 8.5 51645.2 -0825.3  
1110 9.0 51647.2 -0824.0  
1111 9.3 51651.2 -0820.0  
1112 10.1 51713.4 -0843.2  
1113 9.5 51721.2 -0800.3  
1114 9.4 51727.4 -0847.6  
1115 9.2 51740.4 -0830.7

1116 10.1 51801.2 -0822.6  
1117 9.0 51808.4 -0851.2  
1118 9.2 51824.2 -0827.5  
1119 9.3 51905.4 -0840.5  
1120 9.8 51907.1 -0833.1  
1121 9.2 51917.1 -0811.9  
1122 9.5 51943.0 -0853.3  
1123 9.4 52005.4 -0846.1  
1124 9.5 52012.3 -0830.5  
1125 9.0 52029.2 -0827.8

1126 9.0 52041.4 -0850.6  
1127 10.1 52044.8 -0801.4  
1128 8.2 52046.2 -0827.0  
1129 9.8 52115.2 -0820.7  
1130 10.1 52116.2 -0818.5  
1131 9.3 52127.1 -0811.3  
1132 9.7 52142.9 -0808.4  
1133 8.5 52144.3 -0829.6  
1134 9.0 52157.2 -0815.8  
1135 9.5 52158.4 -0849.3

1136 9.3 52209.3 -0826.3  
1137 9.5 52215.2 -0825.1  
1138 10.1 52231.3 -0837.2  
1139 10.1 52239.5 -0852.7  
1140 10.1 52245.4 -0848.2  
1141 9.5 52310.5 -0855.3  
1142 9.0 52315.4 -0844.6  
1143 10.1 52341.3 -0829.4  
1144 9.5 52343.4 -0847.3  
1145 10.1 52348.2 -0818.3

1146 9.3 52349.5 -0804.9  
1147 10.1 52357.1 -0811.6  
1148 10.1 52358.4 -0840.6  
1149 10.1 52359.6 -0834.1  
1150 10.1 52416.3 -0815.8  
1151 9.0 52428.6 -0829.0  
1152 9.2 52434.1 -0821.9  
1153 9.4 52440.9 -0800.5  
1154 10.1 525 0.9 -0809.8  
1155 9.4 52512.2 -0844.2

1156 9.4 52517.7 -0842.9  
1157 9.5 52539.7 -0808.6  
1158 9.5 52533.2 -0827.7  
1159 9.8 52534.0 -0842.8  
1160 9.5 52555.2 -0817.8  
1161 9.3 52601.3 -0821.2  
1162 10.1 52617.2 -0819.1  
1163 9.5 52617.1 -0817.4  
1164 9.5 52647.4 -0841.0  
1165 9.2 52657.1 -0811.6

1166 9.7 52719.3 -0833.9  
1167 8.5 52732.2 -0819.1  
1168 8.7 52749.4 -0805.2  
1169 10.1 52815.1 -0811.1  
1170 9.0 52821.2 -0822.3  
1171 8.0 52830.4 -0844.6  
1172 10.1 52847.1 -0811.0  
1173 10.1 52908.1 -0856.2  
1174 9.6 52943.6 -0804.3  
1175 9.5 53000.5 -0854.2

1176 9.5 53014.1 -0812.2  
1177 8.8 53016.3 -0836.0  
1178 8.7 53016.8 -0836.7  
1179 10.1 53079.3 -0822.0  
1180 8.0 53089.2 -0818.1  
1181 10.1 53093.2 -0827.8  
1182 9.5 53105.3 -0831.1  
1183 7.0 53143.3 -0822.8  
1184 9.3 53146.5 -0853.8  
1185 9.0 53205.5 -0853.4

1186 9.5 53210.3 -0823.2  
1187 9.0 53213.5 -0843.4  
1188 9.4 53225.8 -0808.6  
1189 9.8 53228.9 -0816.2  
1190 9.5 53231.6 -0812.6  
1191 10.1 53249.9 -0828.1  
1192 9.5 53303.3 -0847.7  
1193 10.1 53326.4 -0850.3  
1194 10.1 53327.5 -0854.3  
1195 10.1 53352.2 -0821.2

1196 9.0 53357.4 -0840.0  
1197 7.5 53403.1 -0807.3  
1198 9.1 53507.4 -0802.1  
1199 8.7 53522.1 -0812.7  
1200 9.8 53547.0 -0809.7  
1201 9.8 53558.3 -0807.3  
1202 9.2 53616.9 -0811.3  
1203 9.0 53619.3 -0827.1  
1204 9.5 53646.4 -0848.3  
1205 9.7 53646.6 -0825.8

1206 9.5 53714.3 -0834.5  
1207 9.5 53728.4 -0842.9  
1208 9.5 53730.4 -0847.7  
1209 9.5 53829.3 -0839.3  
1210 9.5 53853.4 -0842.7  
1211 10.1 53907.3 -0829.1  
1212 9.0 53920.2 -0829.1  
1213 8.5 53942.4 -0853.5  
1214 9.5 54022.7 -0819.1  
1215 9.0 54028.4 -0845.9

1216 9.3 54037.5 -0851.3  
1217 9.5 54057.9 -0800.9  
1218 8.5 54102.2 -0822.8  
1219 7.5 54113.2 -0825.0  
1220 9.5 54126.5 -0859.5  
1221 10.1 54127.3 -0830.8  
1222 9.5 54137.1 -0812.0  
1223 8.5 54143.5 -0858.4  
1224 9.5 54206.1 -0814.2  
1225 8.9 54207.2 -0827.1

1226 9.5 54215.5 -0804.9  
1227 9.5 54203.4 -0849.9  
1228 9.5 54204.3 -0833.8  
1229 9.4 54261.0 -0800.8  
1230 9.8 54264.7 -0816.8  
1231 9.4 54263.0 -0820.9  
1232 9.0 54257.5 -0853.0  
1233 9.5 54401.9 -0802.2  
1234 9.3 54417.1 -0811.9  
1235 9.5 54420.0 -0854.3

1236 9.5 54459.1 -0807.8  
1237 9.3 54500.4 -0842.2  
1238 9.5 54501.2 -0817.2  
1239 9.5 54529.5 -0802.4  
1240 8.8 54539.0 -0801.5  
1241 8.9 54547.2 -0822.0  
1242 9.5 54552.8 -0821.3  
1243 8.5 54562.1 -0808.7  
1244 9.8 54566.4 -0827.4  
1245 9.8 54580.3 -0822.2

1246 9.5 54640.7 -0803.4  
1247 9.7 54649.2 -0801.8  
1248 9.5 54659.2 -0819.5  
1249 10.1 54723.1 -0835.1  
1250 7.0 54732.2 -0827.1  
1251 10.1 54824.1 -0814.4  
1252 9.5 54829.1 -0807.2  
1253 9.0 54838.4 -0850.2  
1254 9.0 54840.5 -0858.7  
1255 10.1 54845.1 -0808.2

1256 9.0 54843.0 -0845.7  
1257 9.5 54847.1 -0810.9  
1258 9.1 54901.7 -0838.1  
1259 9.5 54903.9 -0843.6  
1260 9.8 54908.5 -0845.6  
1261 10.1 54915.4 -0828.5  
1262 10.1 54925.1 -0814.4  
1263 9.3 54928.8 -0835.8  
1264 10.1 54931.0 -0805.0  
1265 7.3 54957.7 -0824.2

1266 9.0 54960.4 -0846.2  
1267 9.0 54917.2 -0826.9  
1268 10.1 55045.3 -0833.1  
1269 10.1 55049.8 -0838.0  
1270 9.4 55118.3 -0832.2  
1271 9.5 55129.4 -0843.8  
1272 9.5 55140.4 -0850.1  
1273 10.1 55144.2 -0821.5  
1274 9.5 55154.4 -0841.1  
1275 8.0 55202.5 -0825.4

1276 8.7 55242.4 -0803.6  
1277 9.5 55260.2 -0816.9  
1278 7.0 55304.0 -0807.1  
1279 9.5 55314.1 -0810.2  
1280 9.3 55343.3 -0826.5  
1281 9.0 55350.5 -0857.1  
1282 9.3 55351.4 -0844.6  
1283 9.5 55375.1 -0813.3  
1284 9.5 55412.1 -0809.7  
1285 10.1 55430.5 -0823.5

1286 9.5 55440.4 -0845.8  
1287 9.5 55447.0 -0802.2  
1288 9.3 55443.3 -0828.7  
1289 9.3 55513.9 -0847.2  
1290 9.0 55521.0 -0835.1  
1291 9.3 55527.4 -0844.9  
1292 9.5 55542.0 -0801.3  
1293 9.5 55549.3 -0823.3  
1294 9.5 55554.3 -0825.1  
1295 9.4 55551.5 -0800.6

1296 9.5 55604.2 -0818.6  
1297 9.5 55640.5 -0855.6  
1298 9.5 55642.4 -0850.7  
1299 10.1 55647.0 -0804.3  
1300 9.5 55653.1 -0815.5  
1301 9.5 55704.2 -0819.5  
1302 9.5 55709.1 -0812.4  
1303 8.5 55715.1 -0843.2  
1304 10.1 55732.1 -0813.3  
1305 9.5 55740.5 -0852.6

-08 1305 5h57m



-08 1306 5h57m

1306 10. 55742.3 -0835.2  
1307 9.5 55745.4 -0849.9  
1308 9.3 55750.2 -0802.5  
1309 9.5 55809.2 -0816.7  
1310 8.5 55812.0 -0800.4  
1311 9.3 55815.1 -0810.4  
1312 9.0 55824.5 -0856.9  
1313 9.3 55827.2 -0817.2  
1314 9.7 55843.0 -0801.6  
1315 9.5 55859.4 -0848.9

1316 9.8 55917.1 -0811.0  
1317 9.0 55918.5 -0852.5  
1318 9.5 55921.4 -0845.4  
1319 8.5 55923.2 -0820.8  
1320 9.5 55928.2 -0817.2  
1321 9.5 55934.5 -0831.9  
1322 9.4 55947.4 -0841.3  
1323 9.0 60005.1 -0814.5  
1324 8.5 60046.3 -0838.2  
1325 9.5 60052.3 -0835.4

1326 9.5 60054.2 -0827.4  
1327 9.5 60059.2 -0820.3  
1328 9.5 60139.7 -0820.2  
1329 9.3 60140.3 -0830.0  
1330 9.7 60200.2 -0817.9  
1331 9.0 60204.2 -0822.8  
1332 8.0 60209.2 -0817.0  
1333 9.5 60215.5 -0800.6  
1334 10. 60241.4 -0849.2  
1335 8.5 60313.3 -0831.0

1336 10. 60320.4 -0846.2  
1337 9.5 60323.5 -0852.0  
1338 8.8 60328.5 -0857.4  
1339 10. 60335.5 -0825.3  
1340 10. 60339.5 -0855.0  
1341 9.8 60425.0 -0801.6  
1342 9.0 60515.7 -0846.4  
1343 9.5 60526.1 -0804.2  
1344 9.5 60535.4 -0823.6  
1345 9.0 60544.2 -0851.1

1346 6.7 60559.6 -0841.6  
1347 10. 60602.3 -0812.3  
1348 9.8 60604.3 -0813.2  
1349 9.5 60611.4 -0818.6  
1350 10. 60615.5 -0844.0  
1351 9.5 60622.4 -0825.6  
1352 9.3 60633.2 -0838.8  
1353 9.5 60642.4 -0855.4  
1354 10. 60644.6 -0825.4  
1355 8.8 60645.1 -0837.6

1356 9.8 60702.0 -0830.7  
1357 9.3 60718.6 -0848.7  
1358 9.0 60726.0 -0858.5  
1359 9.7 60726.3 -0832.0  
1360 9.4 60743.9 -0818.2  
1361 7.5 60759.2 -0845.7  
1362 9.1 60801.8 -0847.0  
1363 10. 60807.5 -0820.0  
1364 7.8 60808.6 -0835.1  
1365 9.4 60815.0 -0841.0

1366 9.4 60817.9 -0854.5  
1367 9.3 60823.1 -0835.3  
1368 6.3 60831.0 -0859.4  
1369 9.5 60840.2 -0839.9  
1370 9.4 60849.3 -0822.6  
1371 9.1 60914.7 -0847.2  
1372 9.8 60944.0 -0812.2  
1373 9.5 60947.4 -0826.7  
1374 9.8 60950.3 -0817.0  
1375 9.8 61006.9 -0858.6

1376 9.6 61018.2 -0850.4  
1377 9.5 61027.3 -0803.4  
1378 9.5 61036.5 -0858.2  
1379 9.3 61045.1 -0809.1  
1380 9.8 61055.2 -0822.1  
1381 9.5 61057.8 -0810.1  
1382 9.5 61138.4 -0856.0  
1383 9.8 61141.0 -0821.6  
1384 9.8 61144.7 -0822.1  
1385 8.7 61148.3 -0850.7

1386 6.8 61212.8 -0837.2  
1387 9.0 61219.6 -0835.7  
1388 9.3 61220.4 -0814.3  
1389 9.7 61228.9 -0817.9  
1390 8.3 61246.2 -0813.3  
1391 9.0 61256.2 -0800.1  
1392 8.2 61313.0 -0846.6  
1393 9.8 61321.9 -0820.4  
1394 10. 61334.8 -0849.7  
1395 9.5 61344.2 -0807.0

1396 8.9 61358.4 -0805.1  
1397 9.3 61405.4 -0824.4  
1398 9.6 61422.9 -0818.0  
1399 9.5 61426.5 -0858.9  
1400 9.5 61439.8 -0851.5  
1401 7.3 61444.3 -0810.1  
1402 9.1 61445.7 -0857.9  
1403 9.5 61449.2 -0844.7  
1404 8.0 61501.8 -0809.9  
1405 9.0 61514.0 -0859.2

1406 9.4 61534.5 -0842.5  
1407 9.5 61543.8 -0834.9  
1408 9.5 61545.5 -0844.9  
1409 9.7 61546.4 -0803.8  
1410 9.7 61547.1 -0853.7  
1411 9.6 61552.4 -0804.8  
1412 9.2 61607.3 -0815.5  
1413 9.6 61623.0 -0800.0  
1414 9.8 61637.2 -0806.0  
1415 9.0 61700.8 -0808.5

1416 8.3 61704.5 -0859.8  
1417 9.8 61712.6 -0832.7  
1418 9.2 61715.9 -0847.2  
1419 9.3 61720.5 -0845.6  
1420 9.4 61720.3 -0840.5  
1421 9.2 61736.1 -0803.4  
1422 9.4 61749.4 -0853.2  
1423 9.7 61805.1 -0828.2  
1424 8.6 61814.3 -0839.7  
1425 9.4 61818.9 -0851.9

1426 9.4 61837.6 -0844.1  
1427 9.4 61847.2 -0843.6  
1428 9.1 61851.8 -0843.0  
1429 9.5 61852.0 -0857.0  
1430 8.3 61854.5 -0820.0  
1431 9.4 61900.5 -0857.6  
1432 9.3 61922.6 -0835.7  
1433 9.7 61929.1 -0835.5  
1434 8.8 61931.5 -0840.8  
1435 9.5 61936.9 -0847.2

1436 9.4 61945.5 -0825.2  
1437 9.6 61951.4 -0822.0  
1438 9.0 62025.3 -0851.0  
1439 8.5 62038.3 -0809.6  
1440 9.8 62123.7 -0812.1  
1441 7.8 62139.0 -0822.6  
1442 8.8 62149.9 -0857.7  
1443 8.3 62152.4 -0823.1  
1444 10. 62159.5 -0835.7  
1445 9.3 62202.9 -0854.1

1446 9.9 62213.1 -0803.7  
1447 9.5 62213.6 -0847.7  
1448 8.6 62217.2 -0800.7  
1449 9.8 62228.7 -0846.3  
1450 10. 62230.5 -0805.2  
1451 9.4 62231.1 -0833.2  
1452 9.8 62245.4 -0824.2  
1453 9.5 62247.0 -0825.5  
1454 9.7 62301.7 -0812.4  
1455 9.5 62335.7 -0802.2

1456 9.5 62336.2 -0822.9  
1457 9.2 62343.8 -0805.8  
1458 9.8 62349.1 -0802.1  
1459 9.5 62409.5 -0846.7  
1460 9.8 62440.5 -0809.1  
1461 9.8 62445.1 -0834.6  
1462 9.5 62452.4 -0803.3  
1463 9.6 62454.8 -0800.2  
1464 9.1 62455.2 -0820.5  
1465 9.1 62503.8 -0815.1

1466 9.5 62514.4 -0805.1  
1467 8.5 62525.5 -0846.4  
1468 8.5 62555.9 -0803.4  
1469 7. 62603.2 -0851.9  
1470 9. 62605.3 -0820.9  
1471 8.9 62613.2 -0849.4  
1472 9.5 62615.5 -0834.6  
1473 9.4 62616.5 -0849.0  
1474 9.4 62627.8 -0824.0  
1475 9.0 62638.0 -0804.2

1476 9.8 62638.0 -0831.8  
1477 9.5 62705.6 -0839.0  
1478 9.4 62711.3 -0823.4  
1479 9.5 62734.6 -0840.9  
1480 8.8 62744.0 -0830.4  
1481 9. 62801.4 -0815.2  
1482 8.7 62803.8 -0845.8  
1483 9.6 62832.6 -0800.6  
1484 9.1 62841.9 -0822.3  
1485 9.2 62847.0 -0816.5

1486 8.0 62847.2 -0852.6  
1487 9.0 62849.4 -0826.1  
1488 9.8 62910.9 -0822.8  
1489 8.8 62924.6 -0842.8  
1490 9.1 62930.7 -0814.1  
1491 9.3 62947.4 -0827.3  
1492 9.5 62952.5 -0858.7  
1493 9.3 62952.5 -0817.8  
1494 9.8 63011.4 -0829.3  
1495 9.4 63027.8 -0814.0

1496 7.0 63034.1 -0807.5  
1497 9.5 63037.4 -0807.5  
1498 8.5 63038.9 -0823.3  
1499 7.5 63055.2 -0840.1  
1500 9.5 63056.7 -0813.0  
1501 9.7 63120.4 -0805.5  
1502 9.1 63122.0 -0802.3  
1503 9.9 63133.0 -0805.4  
1504 9.5 63133.5 -0834.4  
1505 9.5 63140.1 -0808.3

1506 9.0 63154.5 -0838.8  
1507 9.1 63155.7 -0855.0  
1508 10. 63214.4 -0856.7  
1509 9.1 63243.8 -0835.4  
1510 8.7 63308.3 -0822.0  
1511 9.0 63316.1 -0814.0  
1512 9.1 63325.9 -0854.7  
1513 9.2 63328.4 -0853.8  
1514 8.7 63333.4 -0850.3  
1515 8.8 63336.6 -0848.8

1516 9.2 63342.3 -0850.5  
1517 9.1 63346.4 -0853.0  
1518 8.5 63351.2 -0839.9  
1519 9.8 63404.2 -0857.1  
1520 10. 63409.3 -0843.7  
1521 9.3 63442.4 -0823.7  
1522 9.4 63451.4 -0828.4  
1523 9.3 63455.5 -0857.6  
1524 9.4 63456.7 -0854.7  
1525 9.3 63502.0 -0829.7

1526 9.2 63518.8 -0825.3  
1527 9.5 63524.9 -0838.5  
1528 9.3 63535.6 -0826.0  
1529 9.1 63539.3 -0830.5  
1530 9.5 63600.1 -0841.8  
1531 9.4 63605.9 -0822.2  
1532 9.5 63609.9 -0821.0  
1533 9.5 63614.0 -0816.2  
1534 9.6 63641.9 -0819.8  
1535 9.1 63654.9 -0827.7

1536 8.9 63654.9 -0854.7  
1537 9.8 63705.4 -0841.0  
1538 9.0 63705.8 -0816.7  
1539 9.0 63718.3 -0816.9  
1540 9.3 63741.9 -0852.0  
1541 9.5 63747.0 -0831.9  
1542 9.8 63759.8 -0821.9  
1543 9.7 63841.1 -0802.3  
1544 9.7 63848.5 -0803.1  
1545 9.5 63852.2 -0853.2

1546 9.5 63904.0 -0830.1  
1547 9.3 63926.6 -0839.0  
1548 9.4 63932.1 -0838.4  
1549 7.5 63936.1 -0846.1  
1550 9.3 63939.0 -0858.2  
1551 8.5 64002.0 -0816.0  
1552 9.8 64002.1 -0803.0  
1553 9.0 64009.9 -0851.5  
1554 9.8 64020.3 -0815.6  
1555 9.6 64020.7 -0808.7

1556 9.2 64024.9 -0826.1  
1557 8.7 64039.3 -0823.0  
1558 5.1 64041.5 -0850.2  
1559 9.8 64045.9 -0854.7  
1560 10. 64117.8 -0810.4  
1561 9.0 64122.7 -0832.2  
1562 9.0 64135.4 -0823.8  
1563 9.9 64137.2 -0851.8  
1564 10. 64139.5 -0848.2  
1565 8.6 64150.1 -0858.5

1566 9.1 64150.1 -0802.5  
1567 8.5 64152.0 -0809.2  
1568 9.2 64216.1 -0838.7  
1569 9.4 64227.2 -0829.7  
1570 9.3 64228.0 -0830.8  
1571 10. 64234.9 -0851.0  
1572 8.7 64236.3 -0857.2  
1573 9.8 64251.1 -0859.0  
1574 9.0 64258.8 -0840.1  
1575 9.8 64302.3 -0817.0

-08 1665 6h53m

1576 9.4 64312.8 -0820.3  
1577 9.0 64324.0 -0829.9  
1578 9.3 64327.8 -0803.6  
1579 9.5 64339.4 -0827.5  
1580 8.8 64343.4 -0844.9  
1581 9.1 64346.4 -0843.8  
1582 9.1 64349.0 -0855.6  
1583 9.1 64405.9 -0850.6  
1584 9.8 64422.5 -0834.6  
1585 9.0 64434.7 -0805.8

1586 9.2 64436.0 -0843.2  
1587 9.4 64438.0 -0817.8  
1588 9.6 64438.0 -0804.2  
1589 10. 64500.2 -0831.8  
1590 9.3 64507.3 -0808.2  
1591 9.4 64509.3 -0826.7  
1592 9.4 64519.1 -0857.5  
1593 9.3 64539.0 -0854.1  
1594 9.2 64549.0 -0855.3  
1595 10. 64549.8 -0837.7

1596 9.8 64551.4 -0845.4  
1597 9.7 64618.9 -0846.0  
1598 9.8 64624.0 -0838.4  
1599 9.5 64630.7 -0845.0  
1600 9.5 64635.7 -0808.1  
1601 9.3 64646.1 -0801.6  
1602 9.5 64649.0 -0834.6  
1603 9.8 64657.8 -0845.6  
1604 8.3 64708.5 -0836.2  
1605 9.5 64715.7 -0819.9

1606 9.7 64722.1 -0851.5  
1607 10. 64724.1 -0831.0  
1608 10. 64724.3 -0856.2  
1609 9.7 64726.2 -0835.9  
1610 8.8 64727.4 -0848.3  
1611 9.8 64731.3 -0800.2  
1612 9.3 64741.5 -0849.7  
1613 9.5 64742.3 -0837.1  
1614 9.6 64801.6 -0847.9  
1615 9.2 64803.3 -0841.4

1616 9.3 64804.4 -0825.3  
1617 8.2 64809.4 -0818.7  
1618 9.4 64812.1 -0810.6  
1619 9.3 64819.6 -0834.5  
1620 8.5 64822.6 -0828.0  
1621 9.4 64826.1 -0837.7  
1622 9.5 64827.6 -0842.3  
1623 9.3 64832.5 -0809.9  
1624 9.5 64832.7 -0820.2  
1625 8.1 64833.6 -0814.1

1626 8.8 64843.1 -0846.4  
1627 9.1 64905.2 -0810.7  
1628 8.8 64909.7 -0821.4  
1629 8.8 64913.7 -0824.8  
1630 10. 64920.0 -0855.6  
1631 9.6 64921.1 -0833.3  
1632 7.0 64937.6 -0808.7  
1633 8.6 64945.0 -0836.6  
1634 9.5 64946.4 -0823.5  
1635 8.8 64948.9 -0849.9

1636 9.2 64950.0 -0852.0  
1637 9.4 64953.2 -0854.7  
1638 9.8 65011.1 -0809.5  
1639 8.3 65011.8 -0821.3  
1640 9.6 65015.9 -0849.6  
1641 8.0 65016.0 -0852.7  
1642 9.5 65016.3 -0834.9  
1643 9.8 65021.5 -0853.1  
1644 9.0 65025.6 -0814.5  
1645 9.2 65041.9 -0810.8

1646 9.5 65043.2 -0811.1  
1647 9.3 65045.3 -0842.0  
1648 9.5 65109.1 -0817.0  
1649 9.0 65109.8 -0839.3  
1650 7.7 65111.0 -0850.0  
1651 8.8 65130.0 -0806.3  
1652 9.2 65138.6 -0858.0  
1653 9.5 65145.3 -0844.1  
1654 9.4 65202.1 -0813.1  
1655 9.7 65210.0 -0826.8

1656 9.7 65211.6 -0840.6  
1657 8.6 65235.1 -0801.2  
1658 8.3 65239.2 -0811.4  
1659 9.0 65307.6 -0836.4  
1660 9.0 65309.1 -0828.8  
1661 9.9 65318.9 -0843.2  
1662 6.1 65325.6 -0812.1  
1663 9.3 65330.0 -0859.1  
1664 8.8 65332.5 -0840.0  
1665 10. 65336.3 -0838.4



|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 1666 9.3 65338.9 -0839.9  | 1756 9.7 70109.0 -0804.9  | 1846 9.4 71312.5 -0824.7  | 1936 9.5 72233.8 -0810.9  |
| 1667 6.8 65344.1 -0859.7  | 1757 9.5 70126.6 -0807.1  | 1847 9.1 71317.5 -0809.8  | 1937 8.0 72239.0 -0857.8  |
| 1668 9.3 65355.4 -0823.2  | 1758 8.5 70128.3 -0852.9  | 1848 9.1 71318.2 -0824.1  | 1938 9.0 72240.4 -0837.5  |
| 1669 9.1 65408.6 -0817.4  | 1759 9.0 70148.7 -0808.3  | 1849 7.3 71321.0 -0816.8  | 1939 9.7 72244.1 -0804.3  |
| 1670 8.7 65410.0 -0805.2  | 1760 10.1 70149.3 -0814.6 | 1850 8.5 71326.2 -0804.7  | 1940 10.1 72248.0 -0846.9 |
| 1671 9.4 65413.0 -0805.3  | 1761 8.3 70152.2 -0827.1  | 1851 9.8 71329.4 -0809.8  | 1941 9.3 72248.3 -0849.0  |
| 1672 8.1 65418.6 -0800.3  | 1762 7.2 70221.8 -0802.9  | 1852 10.1 71332.8 -0801.3 | 1942 9.9 72302.4 -0803.2  |
| 1673 10.1 65420.2 -0839.5 | 1763 8.8 70222.2 -0858.0  | 1853 9.2 71340.8 -0845.0  | 1943 9.8 72303.2 -0806.7  |
| 1674 9.0 65421.5 -0854.1  | 1764 8.5 70223.5 -0805.4  | 1854 9.2 71342.3 -0842.6  | 1944 8.0 72305.9 -0813.8  |
| 1675 9.3 65425.6 -0839.7  | 1765 10.1 70228.4 -0841.9 | 1855 9.0 71343.1 -0822.6  | 1945 9.0 72315.1 -0845.4  |
| 1676 9.6 65450.0 -0846.3  | 1766 9.4 70230.5 -0855.4  | 1856 8.2 71344.9 -0809.8  | 1946 9.4 72324.9 -0813.5  |
| 1677 9.4 65450.6 -0840.3  | 1767 10.1 70241.5 -0848.3 | 1857 9.7 71400.5 -0841.8  | 1947 9.8 72330.8 -0833.9  |
| 1678 9.5 65452.2 -0810.4  | 1768 8.9 70253.3 -0856.6  | 1858 8.2 71405.0 -0852.1  | 1948 7.9 72339.1 -0845.6  |
| 1679 9.7 65454.3 -0801.8  | 1769 8.7 70254.4 -0805.8  | 1859 9.7 71405.9 -0803.3  | 1949 9.5 72344.7 -0804.2  |
| 1680 9.7 65458.5 -0805.2  | 1770 9.5 70259.6 -0854.3  | 1860 9.2 71412.0 -0837.2  | 1950 8.9 72346.6 -0844.8  |
| 1681 9.2 65459.8 -0806.3  | 1771 9.8 70302.4 -0822.9  | 1861 9.8 71417.7 -0859.4  | 1951 9.8 72403.9 -0814.6  |
| 1682 9.5 65512.3 -0807.7  | 1772 9.8 70313.3 -0852.8  | 1862 6.5 71419.4 -0836.1  | 1952 9.4 72404.8 -0829.9  |
| 1683 9.9 65512.7 -0800.7  | 1773 9.5 70315.7 -0829.6  | 1863 9.8 71422.9 -0854.4  | 1953 9.6 72405.9 -0823.1  |
| 1684 9.7 65514.2 -0808.9  | 1774 9.5 70317.2 -0839.7  | 1864 9.5 71424.5 -0824.2  | 1954 9.2 72423.6 -0846.7  |
| 1685 9.7 65521.1 -0859.2  | 1775 9.4 70317.6 -0813.2  | 1865 9.4 71426.1 -0835.6  | 1955 7.8 72425.3 -0826.0  |
| 1686 9.8 65521.1 -0817.3  | 1776 9.4 70333.6 -0852.1  | 1866 9.7 71440.4 -0807.9  | 1956 9.4 72426.4 -0851.2  |
| 1687 10.1 65522.4 -0808.0 | 1777 9.8 70340.4 -0811.8  | 1867 9.1 71442.7 -0847.4  | 1957 9.0 72437.3 -0839.2  |
| 1688 10.1 65523.3 -0810.0 | 1778 9.6 70340.5 -0841.5  | 1868 9.6 71443.4 -0845.5  | 1958 9.5 72446.9 -0815.3  |
| 1689 9.5 65533.4 -0820.0  | 1779 7.4 70417.6 -0853.4  | 1869 9.6 71455.2 -0841.6  | 1959 9.0 72448.7 -0824.2  |
| 1690 9.5 65533.8 -0845.9  | 1780 9.4 70428.4 -0848.6  | 1870 9.7 71459.6 -0857.1  | 1960 9.4 72455.6 -0800.3  |
| 1691 9.6 65533.9 -0810.6  | 1781 9.6 70431.0 -0858.6  | 1871 9.5 71502.0 -0808.1  | 1961 9.0 72459.1 -0822.9  |
| 1692 9.3 65534.1 -0801.9  | 1782 9.7 70444.1 -0858.6  | 1872 6.6 71505.5 -0842.5  | 1962 9.0 72500.3 -0800.5  |
| 1693 9.0 65538.4 -0821.8  | 1783 9.5 70453.2 -0827.2  | 1873 9.7 71513.5 -0854.4  | 1963 9.4 72502.1 -0836.8  |
| 1694 9.5 65538.6 -0857.9  | 1784 9.8 70453.4 -0807.0  | 1874 9.0 71530.3 -0845.9  | 1964 6.0 72508.4 -0833.8  |
| 1695 9.3 65541.0 -0809.8  | 1785 9.1 70501.1 -0854.1  | 1875 8.3 71542.5 -0845.9  | 1965 10.1 72510.6 -0834.3 |
| 1696 9.5 65543.1 -0806.3  | 1786 9.0 70502.7 -0822.9  | 1876 9.7 71602.2 -0847.5  | 1966 9.6 72511.1 -0830.0  |
| 1697 9.1 65544.5 -0814.3  | 1787 9.2 70503.5 -0808.6  | 1877 9.3 71616.0 -0851.7  | 1967 9.7 72511.7 -0858.6  |
| 1698 9.1 65547.8 -0835.8  | 1788 9.6 70510.1 -0837.4  | 1878 10.1 71619.9 -0815.2 | 1968 9.8 72516.9 -0812.5  |
| 1699 7.9 65548.8 -0815.0  | 1789 9.4 70515.7 -0835.2  | 1879 9.5 71621.9 -0833.7  | 1969 9.8 72531.7 -0813.5  |
| 1700 9.3 65549.8 -0810.0  | 1790 8.7 70516.6 -0831.0  | 1880 8.9 71632.1 -0844.1  | 1970 9.2 72555.1 -0844.6  |
| 1701 8.9 65551.3 -0806.3  | 1791 10.1 70520.9 -0844.2 | 1881 9.8 71638.9 -0822.4  | 1971 9.0 72559.6 -0844.5  |
| 1702 10.1 65555.8 -0815.5 | 1792 9.1 70524.6 -0833.9  | 1882 9.8 71649.0 -0851.1  | 1972 9.5 72613.8 -0804.7  |
| 1703 8.9 65556.5 -0805.3  | 1793 9.7 70531.3 -0841.9  | 1883 9.7 71655.5 -0846.9  | 1973 9.0 72636.2 -0803.2  |
| 1704 10.1 65559.4 -0812.9 | 1794 8.3 70534.1 -0827.9  | 1884 9.4 71658.0 -0852.4  | 1974 9.8 72648.8 -0820.0  |
| 1705 9.5 65559.6 -0844.7  | 1795 9.2 70534.9 -0816.2  | 1885 9.3 71703.7 -0839.8  | 1975 9.0 72649.7 -0832.6  |
| 1706 8.4 65600.0 -0808.2  | 1796 9.4 70543.2 -0833.2  | 1886 9.8 71707.4 -0817.3  | 1976 9.8 72653.7 -0857.9  |
| 1707 9.7 65600.8 -0813.7  | 1797 9.9 70547.9 -0802.0  | 1887 9.8 71708.2 -0810.1  | 1977 9.1 72657.9 -0856.9  |
| 1708 9.4 65602.1 -0810.5  | 1798 9.6 70548.3 -0831.1  | 1888 10.1 71709.1 -0836.2 | 1978 9.3 72658.4 -0856.2  |
| 1709 10.1 65614.0 -0806.0 | 1799 10.1 70611.1 -0804.8 | 1889 9.8 71710.0 -0828.0  | 1979 9.8 72724.5 -0847.7  |
| 1710 10.1 65614.6 -0804.2 | 1800 9.9 70614.6 -0800.7  | 1890 9.8 71710.6 -0803.8  | 1980 9.8 72727.4 -0809.8  |
| 1711 9.0 65617.5 -0817.7  | 1801 9.8 70615.9 -0806.3  | 1891 9.9 71716.2 -0846.4  | 1981 9.5 72730.6 -0805.2  |
| 1712 9.9 65618.3 -0804.6  | 1802 7.5 70623.8 -0837.3  | 1892 9.7 71716.7 -0832.6  | 1982 9.8 72730.9 -0837.4  |
| 1713 9.5 65620.1 -0817.3  | 1803 9.7 70632.3 -0845.6  | 1893 9.2 71717.4 -0836.5  | 1983 9.8 72731.2 -0814.1  |
| 1714 9.0 65630.2 -0815.1  | 1804 9.4 70636.6 -0820.0  | 1894 9.8 71730.5 -0816.6  | 1984 9.1 72734.4 -0821.1  |
| 1715 9.4 65631.8 -0841.9  | 1805 7.8 70645.3 -0841.0  | 1895 9.6 71744.7 -0851.7  | 1985 9.3 72744.8 -0805.1  |
| 1716 9.8 65633.8 -0814.0  | 1806 9.8 70645.9 -0820.4  | 1896 9.0 71749.8 -0855.4  | 1986 9.5 72802.1 -0805.1  |
| 1717 9.2 65635.5 -0811.8  | 1807 9.7 70706.1 -0804.1  | 1897 9.1 71749.8 -0856.0  | 1987 9.1 72804.1 -0844.1  |
| 1718 9.3 65637.1 -0858.7  | 1808 9.8 70707.1 -0848.6  | 1898 8.9 71751.4 -0809.3  | 1988 9.3 72806.1 -0848.1  |
| 1719 9.5 65640.8 -0812.9  | 1809 9.5 70709.2 -0810.6  | 1899 9.8 71802.4 -0818.0  | 1989 9.2 72809.4 -0847.1  |
| 1720 9.8 65648.0 -0819.5  | 1810 9.0 70712.6 -0810.8  | 1900 9.7 71802.9 -0800.8  | 1990 9.5 72840.5 -0858.1  |
| 1721 9.8 65648.7 -0820.6  | 1811 9.8 70726.5 -0846.0  | 1901 9.6 71814.4 -0804.0  | 1991 8.0 72849.3 -0801.7  |
| 1722 9.4 65650.9 -0803.1  | 1812 9.5 70736.1 -0808.3  | 1902 10.1 71815.1 -0804.5 | 1992 9.3 72858.6 -0819.3  |
| 1723 9.8 65654.3 -0857.1  | 1813 8.8 70742.9 -0840.0  | 1903 9.9 71816.6 -0836.0  | 1993 7.8 72903.0 -0859.4  |
| 1724 10.1 65658.6 -0859.1 | 1814 9.3 70743.9 -0832.5  | 1904 9.6 71818.6 -0833.8  | 1994 9.3 72917.2 -0841.3  |
| 1725 8.4 65726.6 -0853.7  | 1815 9.1 70746.3 -0801.5  | 1905 9.8 71837.4 -0847.4  | 1995 9.0 72932.3 -0804.7  |
| 1726 7.0 65735.9 -0813.8  | 1816 9.5 70747.9 -0810.8  | 1906 9.8 71857.4 -0817.5  | 1996 9.1 72948.9 -0842.4  |
| 1727 9.5 65740.2 -0804.1  | 1817 9.4 70752.6 -0836.5  | 1907 9.8 71857.9 -0914.0  | 1997 8.9 72957.3 -0826.5  |
| 1728 9.5 65741.8 -0850.3  | 1818 9.2 70757.7 -0848.9  | 1908 9.1 71900.3 -0819.6  | 1998 9.8 73008.0 -0854.1  |
| 1729 8.0 65743.7 -0837.8  | 1819 9.7 70820.8 -0854.3  | 1909 8.2 71910.5 -0848.7  | 1999 9.8 73013.7 -0810.6  |
| 1730 8.9 65753.0 -0803.9  | 1820 9.0 70825.8 -0804.7  | 1910 9.5 71911.6 -0821.4  | 2000 9.4 73026.4 -0839.4  |
| 1731 9.7 65754.8 -0850.0  | 1821 9.0 70854.0 -0839.9  | 1911 9.1 71914.9 -0806.4  | 2001 8.8 73032.3 -0856.1  |
| 1732 9.0 65801.1 -0814.0  | 1822 9.3 70854.7 -0824.9  | 1912 9.1 71921.4 -0824.0  | 2002 8.8 73040.3 -0805.5  |
| 1733 9.0 65829.3 -0847.9  | 1823 9.6 70904.0 -0858.6  | 1913 9.5 71929.3 -0838.5  | 2003 8.8 73042.2 -0822.1  |
| 1734 7.9 65838.7 -0830.2  | 1824 9.2 70913.6 -0816.0  | 1914 9.3 71932.1 -0842.2  | 2004 9.6 73046.3 -0842.1  |
| 1735 9.4 65839.6 -0802.7  | 1825 8.7 70920.1 -0836.9  | 1915 9.9 71936.8 -0821.8  | 2005 8.6 73048.8 -0853.9  |
| 1736 9.8 65841.5 -0801.8  | 1826 9.5 70927.1 -0811.9  | 1916 10.1 71948.0 -0822.5 | 2006 9.1 73054.4 -0822.8  |
| 1737 8.4 65853.9 -0835.2  | 1827 9.8 70959.9 -0857.6  | 1917 8.6 71951.4 -0814.1  | 2007 9.1 73054.8 -0800.4  |
| 1738 9.8 65859.0 -0852.0  | 1828 8.3 71001.6 -0828.6  | 1918 9.8 72012.2 -0831.3  | 2008 8.7 73119.0 -0800.8  |
| 1739 8.8 65904.7 -0820.9  | 1829 9.5 71017.9 -0821.2  | 1919 9.0 72013.1 -0833.8  | 2009 9.4 73122.8 -0806.2  |
| 1740 9.5 65915.6 -0813.7  | 1830 9.0 71022.2 -0847.6  | 1920 9.4 72030.9 -0822.6  | 2010 9.4 73137.8 -0855.7  |
| 1741 9.8 65918.0 -0846.1  | 1831 9.7 71113.3 -0851.8  | 1921 9.8 72048.9 -0816.1  | 2011 9.7 73138.1 -0840.2  |
| 1742 9.7 65921.7 -0803.6  | 1832 8.9 71117.9 -0808.2  | 1922 9.4 72058.5 -0855.4  | 2012 9.8 73141.5 -0857.0  |
| 1743 9.2 65927.7 -0857.4  | 1833 9.5 71128.0 -0828.8  | 1923 9.8 72101.9 -0804.5  | 2013 9.7 73142.3 -0852.0  |
| 1744 9.0 65932.7 -0850.4  | 1834 9.2 71131.7 -0816.0  | 1924 9.8 72105.4 -0815.2  | 2014 9.8 73200.2 -0847.2  |
| 1745 9.8 65932.8 -0806.4  | 1835 9.7 71139.3 -0839.3  | 1925 8.5 72113.4 -0810.4  | 2015 8.5 73219.2 -0821.1  |
| 1746 9.8 65945.7 -0845.5  | 1836 7.5 71144.3 -0852.1  | 1926 9.5 72118.8 -0836.1  | 2016 9.4 73225.4 -0852.4  |
| 1747 9.6 70003.2 -0851.0  | 1837 9.5 71148.5 -0809.7  | 1927 9.0 72125.6 -0857.3  | 2017 9.2 73229.6 -0846.0  |
| 1748 9.0 70014.7 -0853.6  | 1838 9.7 71205.5 -0852.4  | 1928 9.4 72131.6 -0839.3  | 2018 9.8 73247.3 -0839.4  |
| 1749 8.8 70018.7 -0826.8  | 1839 7.5 71225.0 -0831.3  | 1929 9.5 72133.9 -0827.5  | 2019 9.5 73306.2 -0833.1  |
| 1750 9.8 70019.1 -0853.8  | 1840 10.1 71231.3 -0801.9 | 1930 9.3 72136.8 -0840.4  | 2020 9.7 73311.0 -0841.9  |
| 1751 9.0 70034.6 -0854.5  | 1841 9.8 71241.2 -0819.9  | 1931 9.1 72147.0 -0854.0  | 2021 9.2 73313.7 -0845.8  |
| 1752 9.8 70036.6 -0828.2  | 1842 9.8 71246.3 -0803.2  | 1932 9.8 72202.4 -0828.2  | 2022 10.1 73315.0 -0836.6 |
| 1753 8.8 70041.8 -0850.9  | 1843 8.5 71251.8 -0855.9  | 1933 9.8 72213.9 -0807.0  | 2023 9.9 73316.5 -0834.2  |
| 1754 9.4 70048.5 -0846.3  | 1844 9.8 71252.9 -0837.5  | 1934 9.5 72223.8 -0839.3  | 2024 9.8 73337.4 -0840.0  |
| 1755 10.1 70105.0 -0808.4 | 1845 9.0 71311.5 -0816.6  | 1935 9.9 72230.9 -0806.9  | 2025 9.8 73353.3 -0819.6  |



-08 2026 7h33m

-08 2385 8h22m

|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 2026 | 8.5 | 73357.9 | -0802.4 | 2116 | 9.3 | 74539.5 | -0801.2 | 2206 | 10. | 75733.9 | -0845.8 | 2296 | 8.3 | 81024.3 | -0839.2 |
| 2027 | 9.4 | 73415.1 | -0801.4 | 2117 | 9.5 | 74540.1 | -0850.7 | 2207 | 9.0 | 75742.7 | -0856.9 | 2297 | 9.5 | 81048.0 | -0856.4 |
| 2028 | 9.5 | 73415.6 | -0834.0 | 2118 | 9.8 | 74540.3 | -0845.8 | 2208 | 8.8 | 75750.7 | -0804.9 | 2298 | 9.3 | 81054.9 | -0856.2 |
| 2029 | 9.0 | 73419.3 | -0845.1 | 2119 | 9.6 | 74542.9 | -0832.7 | 2209 | 9.5 | 75752.3 | -0847.5 | 2299 | 9.6 | 81109.1 | -0818.7 |
| 2030 | 8.2 | 73427.3 | -0853.0 | 2120 | 9.7 | 74543.8 | -0826.3 | 2210 | 9.5 | 75752.8 | -0834.7 | 2300 | 9.4 | 81109.7 | -0823.0 |
| 2031 | 9.3 | 73434.5 | -0804.9 | 2121 | 9.3 | 74545.9 | -0813.4 | 2211 | 9.0 | 75759.0 | -0841.0 | 2301 | 9.5 | 81125.5 | -0859.1 |
| 2032 | 9.3 | 73445.7 | -0811.4 | 2122 | 9.8 | 74546.5 | -0830.4 | 2212 | 7.9 | 75802.7 | -0829.0 | 2302 | 9.0 | 81140.9 | -0824.3 |
| 2033 | 9.5 | 73449.8 | -0817.3 | 2123 | 9.0 | 74548.0 | -0854.3 | 2213 | 9.3 | 75809.3 | -0828.5 | 2303 | 9.8 | 81216.8 | -0838.6 |
| 2034 | 9.1 | 73452.3 | -0822.4 | 2124 | 9.5 | 74610.0 | -0842.7 | 2214 | 9.0 | 75818.8 | -0816.0 | 2304 | 9.5 | 81218.0 | -0836.3 |
| 2035 | 9.9 | 73510.0 | -0805.2 | 2125 | 9.3 | 74610.2 | -0802.2 | 2215 | 8.2 | 75837.9 | -0802.1 | 2305 | 8.8 | 81228.1 | -0805.3 |
| 2036 | 9.4 | 73518.4 | -0859.6 | 2126 | 9.8 | 74616.3 | -0804.6 | 2216 | 9.0 | 75853.2 | -0855.2 | 2306 | 9.1 | 81231.9 | -0808.9 |
| 2037 | 9.5 | 73530.0 | -0806.2 | 2127 | 9.6 | 74638.2 | -0853.7 | 2217 | 9.4 | 75906.6 | -0852.1 | 2307 | 9.1 | 81243.8 | -0828.1 |
| 2038 | 9.4 | 73545.3 | -0815.8 | 2128 | 8.3 | 74642.9 | -0851.1 | 2218 | 9.0 | 75909.3 | -0805.0 | 2308 | 9.7 | 81244.6 | -0825.0 |
| 2039 | 9.5 | 73549.3 | -0832.6 | 2129 | 9.5 | 74649.6 | -0827.8 | 2219 | 9.4 | 75911.0 | -0854.3 | 2309 | 9.5 | 81247.2 | -0855.7 |
| 2040 | 9.3 | 73558.5 | -0809.7 | 2130 | 7.8 | 74659.7 | -0856.6 | 2220 | 9.3 | 75921.4 | -0820.2 | 2310 | 9.8 | 81300.6 | -0850.2 |
| 2041 | 9.8 | 73612.7 | -0816.4 | 2131 | 9.5 | 74716.0 | -0822.4 | 2221 | 8.5 | 75927.6 | -0849.4 | 2311 | 8.9 | 81310.0 | -0817.0 |
| 2042 | 9.8 | 73614.2 | -0813.5 | 2132 | 9.6 | 74716.2 | -0824.8 | 2222 | 6.0 | 75928.9 | -0849.9 | 2312 | 9.5 | 81318.5 | -0842.5 |
| 2043 | 9.8 | 73615.7 | -0846.8 | 2133 | 9.0 | 74730.8 | -0836.7 | 2223 | 9.5 | 75935.0 | -0836.0 | 2313 | 9.5 | 81339.1 | -0830.1 |
| 2044 | 9.5 | 73655.6 | -0856.4 | 2134 | 9.4 | 74743.7 | -0814.7 | 2224 | 9.4 | 75945.0 | -0805.1 | 2314 | 9.3 | 81354.9 | -0855.2 |
| 2045 | 9.8 | 73658.1 | -0804.9 | 2135 | 9.5 | 74806.4 | -0807.0 | 2225 | 9.6 | 75946.4 | -0800.5 | 2315 | 7.5 | 81403.1 | -0825.4 |
| 2046 | 9.4 | 73718.4 | -0854.7 | 2136 | 9.6 | 74807.8 | -0844.4 | 2226 | 9.1 | 75946.4 | -0810.0 | 2316 | 9.5 | 81403.8 | -0827.1 |
| 2047 | 9.5 | 73718.8 | -0821.9 | 2137 | 9.1 | 74815.2 | -0850.7 | 2227 | 9.7 | 75954.0 | -0849.8 | 2317 | 9.6 | 81407.2 | -0829.6 |
| 2048 | 9.8 | 73745.0 | -0821.7 | 2138 | 10. | 74815.7 | -0846.9 | 2228 | 9.2 | 80008.7 | -0800.9 | 2318 | 9.6 | 81420.1 | -0814.3 |
| 2049 | 8.5 | 73745.8 | -0803.1 | 2139 | 9.5 | 74821.0 | -0844.2 | 2229 | 9.8 | 80010.3 | -0813.3 | 2319 | 6.8 | 81433.3 | -0813.2 |
| 2050 | 9.5 | 73750.8 | -0808.0 | 2140 | 9.7 | 74844.8 | -0852.9 | 2230 | 8.8 | 80025.3 | -0836.3 | 2320 | 9.5 | 81441.7 | -0846.5 |
| 2051 | 9.1 | 73805.3 | -0856.9 | 2141 | 9.3 | 74906.7 | -0812.6 | 2231 | 9.8 | 80034.6 | -0850.8 | 2321 | 9.5 | 81453.6 | -0801.8 |
| 2052 | 9.0 | 73815.2 | -0840.2 | 2142 | 9.5 | 74921.1 | -0841.2 | 2232 | 8.2 | 80036.0 | -0809.5 | 2322 | 9.5 | 81511.7 | -0835.5 |
| 2053 | 9.3 | 73818.9 | -0857.8 | 2143 | 9.8 | 74926.9 | -0849.3 | 2233 | 10. | 80053.6 | -0843.2 | 2323 | 8.2 | 81515.9 | -0840.0 |
| 2054 | 9.0 | 73821.3 | -0811.4 | 2144 | 9.8 | 74948.5 | -0814.6 | 2234 | 9.4 | 80103.4 | -0805.9 | 2324 | 9.7 | 81522.0 | -0818.3 |
| 2055 | 8.5 | 73823.7 | -0829.9 | 2145 | 9.8 | 74954.2 | -0855.5 | 2235 | 8.4 | 80108.8 | -0819.1 | 2325 | 9.5 | 81525.4 | -0847.4 |
| 2056 | 9.4 | 73823.8 | -0836.3 | 2146 | 10. | 74958.3 | -0847.5 | 2236 | 9.3 | 80112.0 | -0805.1 | 2326 | 9.1 | 81528.7 | -0814.7 |
| 2057 | 9.4 | 73828.0 | -0836.2 | 2147 | 9.5 | 75003.1 | -0828.3 | 2237 | 9.5 | 80117.8 | -0838.5 | 2327 | 9.7 | 81534.0 | -0841.0 |
| 2058 | 9.2 | 73835.2 | -0828.4 | 2148 | 9.0 | 75024.6 | -0808.7 | 2238 | 9.1 | 80120.8 | -0831.9 | 2328 | 8.5 | 81551.1 | -0807.5 |
| 2059 | 8.8 | 73900.6 | -0806.7 | 2149 | 9.6 | 75033.3 | -0802.0 | 2239 | 9.6 | 80128.2 | -0822.7 | 2329 | 9.3 | 81552.6 | -0801.8 |
| 2060 | 9.3 | 73907.8 | -0810.3 | 2150 | 9.5 | 75047.6 | -0846.9 | 2240 | 9.5 | 80144.1 | -0849.8 | 2330 | 9.3 | 81553.3 | -0845.4 |
| 2061 | 9.5 | 73922.7 | -0818.7 | 2151 | 9.0 | 75049.9 | -0827.2 | 2241 | 9.2 | 80159.1 | -0800.4 | 2331 | 9.1 | 81554.1 | -0856.5 |
| 2062 | 9.3 | 73937.3 | -0852.0 | 2152 | 10. | 75054.7 | -0818.9 | 2242 | 9.3 | 80204.1 | -0840.6 | 2332 | 9.0 | 81554.1 | -0800.6 |
| 2063 | 8.0 | 73950.7 | -0828.0 | 2153 | 9.4 | 75056.5 | -0802.4 | 2243 | 9.0 | 80207.3 | -0829.8 | 2333 | 9.3 | 81555.9 | -0847.1 |
| 2064 | 9.0 | 73954.2 | -0829.2 | 2154 | 9.0 | 75058.0 | -0821.5 | 2244 | 9.2 | 80216.0 | -0849.5 | 2334 | 9.1 | 81559.1 | -0835.9 |
| 2065 | 9.8 | 73958.8 | -0849.7 | 2155 | 9.5 | 75120.1 | -0825.2 | 2245 | 9.4 | 80222.8 | -0849.3 | 2335 | 9.1 | 81625.5 | -0804.0 |
| 2066 | 9.7 | 74005.7 | -0812.6 | 2156 | 9.2 | 75129.8 | -0812.6 | 2246 | 9.5 | 80225.6 | -0818.7 | 2336 | 9.2 | 81626.0 | -0839.8 |
| 2067 | 9.8 | 74007.4 | -0841.6 | 2157 | 9.8 | 75134.2 | -0855.1 | 2247 | 9.5 | 80227.4 | -0836.2 | 2337 | 9.1 | 81635.0 | -0821.8 |
| 2068 | 9.5 | 74008.8 | -0812.6 | 2158 | 9.4 | 75139.9 | -0859.0 | 2248 | 9.5 | 80241.9 | -0836.3 | 2338 | 9.0 | 81645.8 | -0829.5 |
| 2069 | 9.7 | 74011.3 | -0834.9 | 2159 | 9.4 | 75152.8 | -0816.7 | 2249 | 10. | 80244.0 | -0838.3 | 2339 | 8.4 | 81646.7 | -0800.3 |
| 2070 | 9.1 | 74029.7 | -0837.8 | 2160 | 9.0 | 75154.7 | -0834.4 | 2250 | 9.2 | 80250.5 | -0846.7 | 2340 | 9.3 | 81654.5 | -0841.0 |
| 2071 | 9.4 | 74033.2 | -0836.8 | 2161 | 9.3 | 75156.9 | -0817.6 | 2251 | 9.5 | 80273.3 | -0810.8 | 2341 | 8.5 | 81700.0 | -0822.3 |
| 2072 | 9.5 | 74035.5 | -0803.9 | 2162 | 9.1 | 75158.6 | -0847.0 | 2252 | 9.1 | 80241.6 | -0818.2 | 2342 | 9.3 | 81708.6 | -0847.2 |
| 2073 | 9.8 | 74053.3 | -0817.3 | 2163 | 9.2 | 75202.7 | -0834.4 | 2253 | 9.5 | 80352.5 | -0816.4 | 2343 | 7.4 | 81726.0 | -0803.2 |
| 2074 | 9.6 | 74059.7 | -0800.0 | 2164 | 8.5 | 75207.9 | -0809.6 | 2254 | 8.8 | 80400.0 | -0856.6 | 2344 | 9.5 | 81726.5 | -0858.3 |
| 2075 | 8.7 | 74100.5 | -0825.8 | 2165 | 9.8 | 75215.1 | -0826.5 | 2255 | 9.0 | 80477.8 | -0815.9 | 2345 | 8.1 | 81735.6 | -0827.6 |
| 2076 | 9.3 | 74100.9 | -0859.1 | 2166 | 9.2 | 75219.4 | -0801.0 | 2256 | 8.9 | 80410.6 | -0813.2 | 2346 | 9.5 | 81754.0 | -0813.5 |
| 2077 | 9.7 | 74112.8 | -0852.6 | 2167 | 9.7 | 75221.7 | -0849.4 | 2257 | 9.3 | 80424.4 | -0840.0 | 2347 | 9.1 | 81759.9 | -0853.7 |
| 2078 | 9.8 | 74126.5 | -0839.4 | 2168 | 9.1 | 75229.7 | -0811.1 | 2258 | 9.2 | 80425.3 | -0830.9 | 2348 | 9.4 | 81803.3 | -0807.1 |
| 2079 | 9.3 | 74131.7 | -0804.3 | 2169 | 9.8 | 75235.3 | -0802.2 | 2259 | 8.3 | 80436.9 | -0856.5 | 2349 | 9.8 | 81812.0 | -0807.8 |
| 2080 | 9.2 | 74135.8 | -0852.1 | 2170 | 7.9 | 75247.4 | -0842.6 | 2260 | 9.5 | 80438.0 | -0845.8 | 2350 | 9.3 | 81815.3 | -0803.5 |
| 2081 | 9.5 | 74136.4 | -0819.7 | 2171 | 9.7 | 75253.3 | -0858.3 | 2261 | 9.5 | 80439.8 | -0801.2 | 2351 | 9.5 | 81828.7 | -0838.5 |
| 2082 | 9.6 | 74142.7 | -0834.7 | 2172 | 10. | 75303.6 | -0857.2 | 2262 | 9.4 | 80442.1 | -0850.0 | 2352 | 6.3 | 81836.6 | -0828.9 |
| 2083 | 9.8 | 74149.8 | -0811.9 | 2173 | 9.4 | 75304.9 | -0855.7 | 2263 | 7.9 | 80511.1 | -0806.2 | 2353 | 7.8 | 81853.5 | -0818.5 |
| 2084 | 9.5 | 74202.9 | -0854.7 | 2174 | 9.3 | 75307.7 | -0833.8 | 2264 | 9.8 | 80519.7 | -0826.7 | 2354 | 9.8 | 81902.0 | -0812.8 |
| 2085 | 9.3 | 74206.7 | -0818.8 | 2175 | 8.6 | 75325.4 | -0842.5 | 2265 | 9.3 | 80530.8 | -0828.2 | 2355 | 7.0 | 81903.6 | -0802.2 |
| 2086 | 9.5 | 74215.3 | -0852.8 | 2176 | 9.0 | 75326.6 | -0858.6 | 2266 | 9.5 | 80546.2 | -0800.6 | 2356 | 8.6 | 81910.9 | -0843.9 |
| 2087 | 9.3 | 74226.7 | -0842.3 | 2177 | 10. | 75327.2 | -0813.6 | 2267 | 9.7 | 80551.3 | -0831.1 | 2357 | 9.3 | 81934.0 | -0820.6 |
| 2088 | 9.5 | 74234.7 | -0847.5 | 2178 | 9.8 | 75333.9 | -0819.0 | 2268 | 9.7 | 80600.5 | -0835.0 | 2358 | 9.4 | 81939.5 | -0845.2 |
| 2089 | 9.4 | 74235.0 | -0827.0 | 2179 | 9.3 | 75345.9 | -0848.4 | 2269 | 9.7 | 80613.4 | -0838.7 | 2359 | 9.1 | 81956.9 | -0816.4 |
| 2090 | 8.1 | 74251.2 | -0813.2 | 2180 | 9.8 | 75353.2 | -0850.0 | 2270 | 9.6 | 80625.2 | -0847.6 | 2360 | 9.4 | 81958.6 | -0842.1 |
| 2091 | 9.1 | 74256.5 | -0806.4 | 2181 | 9.3 | 75354.1 | -0823.2 | 2271 | 9.4 | 80701.6 | -0803.8 | 2361 | 9.8 | 82001.1 | -0804.8 |
| 2092 | 8.3 | 74301.1 | -0855.2 | 2182 | 9.0 | 75400.7 | -0830.2 | 2272 | 7.8 | 80706.2 | -0825.3 | 2362 | 8.3 | 82001.9 | -0856.1 |
| 2093 | 9.0 | 74301.2 | -0822.2 | 2183 | 9.4 | 75407.2 | -0847.8 | 2273 | 9.5 | 80709.7 | -0827.8 | 2363 | 9.4 | 82011.8 | -0840.0 |
| 2094 | 9.4 | 74302.3 | -0815.7 | 2184 | 9.7 | 75431.0 | -0847.2 | 2274 | 9.5 | 80733.0 | -0818.8 | 2364 | 9.4 | 82015.6 | -0833.1 |
| 2095 | 9.8 | 74312.4 | -0844.1 | 2185 | 9.0 | 75434.7 | -0853.0 | 2275 | 9.0 | 80735.9 | -0809.8 | 2365 | 9.5 | 82024.6 | -0832.2 |
| 2096 | 5.5 | 74313.1 | -0849.0 | 2186 | 7.2 | 75443.8 | -0811.9 | 2276 | 9.3 | 80736.1 | -0827.9 | 2366 | 9.0 | 82032.8 | -0804.2 |
| 2097 | 9.7 | 74314.9 | -0812.0 | 2187 | 9.4 | 75457.6 | -0827.5 | 2277 | 9.2 | 80810.3 | -0835.2 | 2367 | 8.9 | 82037.3 | -0809.7 |
| 2098 | 10. | 74320.2 | -0811.9 | 2188 | 9.5 | 75500.3 | -0854.4 | 2278 | 8.9 | 80813.9 | -0805.0 | 2368 | 10. | 82037.4 | -0818.5 |
| 2099 | 9.7 | 74333.3 | -0800.9 | 2189 | 7.0 | 75502.8 | -0857.8 | 2279 | 9.7 | 80814.8 | -0802.6 | 2369 | 9.0 | 82046.1 | -0841.6 |
| 2100 | 8.9 | 74352.9 | -0808.4 | 2190 | 9.5 | 75522.9 | -0819.0 | 2280 | 9.4 | 80824.4 | -0829.1 | 2370 | 9.2 |         |         |



-08 2386 8h23m

2386 10. 82315.9 -0819.9  
2387 9.5 82341.3 -0808.6  
2388 9.3 82343.2 -0847.1  
2389 9.5 82346.2 -0834.2  
2390 9.3 82359.1 -0833.3  
2391 8.0 82413.3 -0857.9  
2392 9.7 82414.2 -0846.7  
2393 8.7 82428.2 -0850.7  
2394 7.3 82443.7 -0822.2  
2395 9.8 82452.9 -0829.0  
  
2396 9.5 82454.7 -0835.4  
2397 9.5 82459.6 -0800.9  
2398 9.3 82521.1 -0839.7  
2399 9.6 82523.0 -0835.0  
2400 9.8 82536.5 -0832.0  
2401 9.5 82540.5 -0833.6  
2402 9.1 82600.6 -0841.4  
2403 9.5 82601.0 -0844.9  
2404 9.4 82607.8 -0845.0  
2405 9.5 82631.8 -0807.2  
  
2406 9.4 82636.7 -0837.8  
2407 9.8 82644.3 -0810.1  
2408 9.7 82646.2 -0840.1  
2409 9.7 82650.1 -0841.4  
2410 9.7 82704.2 -0839.8  
2411 9.9 82705.2 -0828.0  
2412 9.1 82710.0 -0828.9  
2413 9.5 82739.0 -0857.9  
2414 9.7 82747.7 -0804.5  
2415 8.6 82750.6 -0850.4  
  
2416 9.7 82757.4 -0805.8  
2417 9.2 82757.6 -0854.5  
2418 9.0 82801.1 -0813.0  
2419 9.5 82817.0 -0813.0  
2420 9.0 82821.8 -0817.8  
2421 9.4 82833.5 -0845.5  
2422 9.5 82842.8 -0848.6  
2423 10. 82904.9 -0838.4  
2424 10. 82910.0 -0842.6  
2425 9.4 82936.2 -0848.4  
  
2426 9.8 82951.3 -0842.0  
2427 8.6 83004.3 -0835.5  
2428 9.2 83006.8 -0811.2  
2429 9.4 83013.4 -0808.3  
2430 9.0 83031.5 -0835.1  
2431 9.6 83039.5 -0809.2  
2432 10. 83045.4 -0859.4  
2433 9.5 83046.6 -0823.1  
2434 8.0 83054.9 -0813.8  
2435 9.5 83055.4 -0859.7  
  
2436 7.0 83056.2 -0822.9  
2437 9.2 83111.9 -0845.5  
2438 8.8 83115.1 -0803.8  
2439 8.9 83120.2 -0842.9  
2440 8.5 83148.0 -0802.8  
2441 9.7 83151.5 -0848.2  
2442 9.5 83212.9 -0858.1  
2443 9.5 83228.3 -0849.5  
2444 8.0 83239.0 -0841.5  
2445 9.8 83246.6 -0823.6  
  
2446 10. 83254.7 -0805.9  
2447 9.1 83328.8 -0812.4  
2448 10. 83334.1 -0846.6  
2449 9.5 83338.2 -0805.5  
2450 9.1 83339.4 -0847.4  
2451 9.7 83344.9 -0847.0  
2452 6.5 83359.9 -0832.2  
2453 9.4 83404.5 -0844.7  
2454 8.3 83407.4 -0820.6  
2455 9.5 83431.0 -0839.4  
  
2456 7.5 83445.7 -0802.6  
2457 9.3 83452.0 -0839.7  
2458 9.5 83508.5 -0842.0  
2459 7.8 83510.7 -0804.3  
2460 9.5 83512.6 -0817.0  
2461 9.1 83512.8 -0818.8  
2462 9.1 83525.9 -0811.7  
2463 9.8 83529.0 -0800.5  
2464 8.8 83550.4 -0854.6  
2465 8.5 83554.0 -0800.8  
  
2466 9.8 83606.1 -0843.4  
2467 9.5 83615.9 -0827.5  
2468 9.3 83631.0 -0837.8  
2469 9.3 83643.9 -0845.4  
2470 9.5 83702.3 -0803.3  
2471 8.8 83706.3 -0851.8  
2472 9.4 83711.6 -0821.3  
2473 9.6 83725.8 -0849.5  
2474 8.6 83734.9 -0855.1  
2475 9.1 83750.5 -0844.5

2476 9.8 83811.8 -0824.5  
2477 9.5 83814.9 -0857.3  
2478 9.5 83820.5 -0840.1  
2479 9.5 83835.3 -0816.3  
2480 9.0 83854.9 -0855.6  
2481 9.5 83858.7 -0802.1  
2482 8.4 83902.9 -0826.8  
2483 9.1 83913.9 -0857.9  
2484 9.3 83927.7 -0812.1  
2485 9.8 83929.9 -0850.0  
  
2486 7.5 83930.2 -0807.4  
2487 9.5 83950.2 -0810.5  
2488 9.7 84010.9 -0831.3  
2489 9.8 84018.1 -0850.0  
2490 10. 84023.0 -0853.9  
2491 9.7 84037.4 -0841.8  
2492 8.5 84116.3 -0859.7  
2493 9.4 84118.5 -0800.8  
2494 8.5 84142.1 -0809.8  
2495 9.3 84144.4 -0859.4  
  
2496 9.8 84151.9 -0840.4  
2497 9.8 84159.8 -0809.4  
2498 9.0 84208.2 -0817.8  
2499 8.0 84230.8 -0804.7  
2500 6.8 84236.6 -0806.2  
2501 7.7 84403.3 -0853.2  
2502 9.5 84407.8 -0831.5  
2503 8.9 84412.3 -0825.0  
2504 7.5 84416.9 -0835.2  
2505 9.5 84418.7 -0822.6  
  
2506 9.4 84426.2 -0812.5  
2507 9.0 84429.3 -0834.2  
2508 9.0 84436.3 -0825.7  
2509 8.2 84440.8 -0835.1  
2510 9.5 84533.8 -0856.4  
2511 9.7 84600.0 -0848.6  
2512 9.2 84604.1 -0856.3  
2513 10. 84632.0 -0856.3  
2514 9.7 84632.1 -0852.9  
2515 9.4 84640.2 -0850.7  
  
2516 9.0 84641.0 -0823.8  
2517 9.0 84647.2 -0853.2  
2518 7.0 84710.7 -0812.8  
2519 9.3 84715.4 -0829.9  
2520 8.3 84719.9 -0840.0  
2521 9.7 84727.5 -0803.0  
2522 9.5 84733.1 -0848.8  
2523 9.1 84735.2 -0814.0  
2524 9.1 84740.3 -0822.2  
2525 30.0 84836.4 -0835.5  
  
2526 9.3 84839.2 -0816.3  
2527 10. 84842.6 -0832.7  
2528 9.1 84851.8 -0851.0  
2529 9.6 84914.5 -0848.9  
2530 10. 84921.0 -0843.5  
2531 9.2 84923.7 -0802.7  
2532 8.8 84942.8 -0830.7  
2533 9.0 85010.8 -0855.5  
2534 9.0 85115.8 -0854.5  
2535 9.3 85018.5 -0842.4  
  
2536 8.5 85022.9 -0851.4  
2537 9.3 85023.3 -0833.3  
2538 8.6 85035.7 -0812.8  
2539 9.2 85101.8 -0859.6  
2540 9.2 85118.2 -0826.4  
2541 8.9 85144.5 -0806.4  
2542 9.6 85209.8 -0831.1  
2543 7.8 85215.7 -0826.0  
2544 9.4 85219.9 -0843.1  
2545 8.6 85224.8 -0801.5  
  
2546 8.7 85238.9 -0840.0  
2547 9.0 85253.3 -0803.6  
2548 9.3 85306.9 -0802.3  
2549 7.5 85316.2 -0833.4  
2550 10. 85339.9 -0812.8  
2551 7.0 85341.8 -0838.0  
2552 9.0 85345.7 -0840.6  
2553 9.3 85354.2 -0858.9  
2554 7.5 85358.4 -0839.3  
2555 8.2 85359.8 -0836.0  
  
2556 10. 85403.4 -0801.7  
2557 9.4 85404.2 -0806.5  
2558 10. 85434.0 -0821.1  
2559 9.4 85435.5 -0827.0  
2560 9.7 85442.7 -0829.0  
2561 8.9 85447.6 -0852.5  
2562 9.7 85454.8 -0840.5  
2563 9.5 85500.7 -0852.3  
2564 8.4 85538.4 -0824.3  
2565 8.7 85541.3 -0849.5

2566 9.4 85549.4 -0803.7  
2567 9.7 85603.5 -0814.5  
2568 7.8 85604.2 -0825.3  
2569 8.6 85618.7 -0827.0  
2570 8.5 85638.7 -0800.7  
2571 9.2 85645.5 -0807.8  
2572 9.4 85705.3 -0833.0  
2573 8.9 85709.0 -0848.2  
2574 9.2 85819.6 -0849.5  
2575 9.6 85821.3 -0843.9  
  
2576 9.7 85837.9 -0843.6  
2577 8.3 85851.6 -0831.8  
2578 9.0 85859.3 -0850.0  
2579 9.1 85900.4 -0803.7  
2580 9.0 85920.0 -0813.1  
2581 9.4 85933.2 -0838.7  
2582 9.0 85942.4 -0814.2  
2583 9.1 85950.1 -0847.7  
2584 9.8 90029.0 -0847.8  
2585 9.8 90106.7 -0843.1  
  
2586 9.8 90115.1 -0823.0  
2587 9.0 90122.0 -0819.0  
2588 5.8 90136.2 -0800.3  
2589 7.9 90136.9 -0848.2  
2590 9.2 90152.1 -0854.8  
2591 9.5 90220.7 -0841.2  
2592 8.4 90229.6 -0802.4  
2593 5.3 90230.2 -0812.0  
2594 9.4 90251.1 -0811.4  
2595 9.3 90258.1 -0811.6  
  
2596 9.6 90305.8 -0850.6  
2597 9.3 90307.8 -0828.6  
2598 8.5 90308.6 -0802.6  
2599 10. 90313.8 -0839.3  
2600 8.5 90341.6 -0818.4  
2601 9.0 90410.1 -0818.7  
2602 9.4 90413.0 -0810.0  
2603 9.8 90419.3 -0841.4  
2604 9.8 90419.3 -0821.1  
2605 9.6 90426.3 -0818.7  
  
2606 10. 90508.9 -0827.4  
2607 10. 90509.2 -0837.0  
2608 8.7 90538.4 -0820.5  
2609 10. 90547.1 -0859.0  
2610 8.3 90553.6 -0806.2  
2611 9.8 90615.9 -0803.2  
2612 9.3 90616.2 -0831.2  
2613 9.5 90722.5 -0830.3  
2614 9.2 90726.8 -0832.4  
2615 7.5 90747.1 -0809.7  
  
2616 9.5 90747.8 -0846.8  
2617 9.9 90802.2 -0826.3  
2618 8.0 90814.8 -0827.8  
2619 7.8 90826.9 -0808.7  
2620 9.5 90828.4 -0816.2  
2621 9.4 90850.8 -0802.3  
2622 8.8 90910.2 -0828.7  
2623 6.2 90935.2 -0808.5  
2624 9.1 90958.2 -0845.1  
2625 9.1 90959.1 -0837.9  
  
2626 9.6 91012.4 -0835.7  
2627 9.4 91050.1 -0831.3  
2628 9.3 91055.2 -0829.5  
2629 8.9 91109.9 -0852.0  
2630 9.8 91113.0 -0854.5  
2631 8.2 91115.8 -0816.5  
2632 9.3 91119.7 -0852.9  
2633 9.3 91121.7 -0844.2  
2634 9.5 91142.0 -0823.0  
2635 10. 91157.3 -0826.1  
  
2636 10. 91157.7 -0822.5  
2637 9.5 91209.8 -0841.7  
2638 8.6 91215.9 -0856.6  
2639 9.1 91221.4 -0822.8  
2640 9.4 91227.1 -0804.9  
2641 9.6 91248.5 -0842.8  
2642 9.5 91309.5 -0834.4  
2643 5.0 91324.3 -0856.4  
2644 8.5 91325.9 -0816.6  
2645 9.7 91340.9 -0807.5  
  
2646 9.5 91350.4 -0831.5  
2647 8.9 91431.0 -0823.5  
2648 9.8 91432.4 -0831.2  
2649 9.0 91434.6 -0803.0  
2650 10. 91440.5 -0838.9  
2651 9.4 91452.3 -0838.8  
2652 9.8 91508.5 -0843.3  
2653 9.6 91510.9 -0839.3  
2654 9.8 91527.0 -0822.3  
2655 9.1 91532.3 -0846.6

2656 9.4 91539.2 -0802.5  
2657 9.5 91555.3 -0835.7  
2658 9.8 91603.7 -0800.0  
2659 9.8 91614.1 -0823.4  
2660 9.6 91615.2 -0811.2  
2661 9.5 91617.7 -0808.5  
2662 9.7 91622.3 -0806.6  
2663 9.0 91650.2 -0826.4  
2664 9.7 91709.1 -0826.3  
2665 9.0 91716.2 -0849.8  
  
2666 8.8 91719.9 -0847.6  
2667 9.8 91736.5 -0854.1  
2668 9.1 91806.3 -0827.0  
2669 8.9 91808.4 -0829.3  
2670 9.4 91809.0 -0837.7  
2671 9.4 91831.5 -0800.4  
2672 9.3 91838.5 -0841.3  
2673 10. 91841.3 -0828.8  
2674 9.4 91922.0 -0845.1  
2675 10. 91945.9 -0850.2  
  
2676 9.4 91948.5 -0834.8  
2677 9.4 91958.2 -0820.0  
2678 6.8 92008.5 -0835.9  
2679 9.8 92022.9 -0846.4  
2680 2.0 92027.1 -0801.7  
2681 9.4 92036.9 -0805.9  
2682 9.4 92041.9 -0825.6  
2683 9.1 92049.3 -0820.5  
2684 9.4 92107.6 -0808.8  
2685 10. 92118.5 -0842.5  
  
2686 8.0 92118.6 -0833.8  
2687 8.9 92125.8 -0846.7  
2688 9.4 92136.7 -0806.5  
2689 9.8 92143.7 -0838.4  
2690 9.5 92201.3 -0831.8  
2691 9.3 92218.0 -0829.4  
2692 9.5 92218.4 -0816.1  
2693 9.5 92222.1 -0807.5  
2694 9.3 92421.2 -0815.5  
2695 9.5 92431.8 -0836.6  
  
2696 9.1 92433.6 -0805.3  
2697 9.3 92444.2 -0818.4  
2698 9.1 92451.0 -0831.2  
2699 9.5 92454.5 -0846.9  
2700 9.0 92504.0 -0806.9  
2701 9.3 92554.3 -0805.1  
2702 9.0 92601.2 -0840.4  
2703 10. 92618.3 -0818.0  
2704 9.8 92619.7 -0811.9  
2705 9.8 92634.9 -0856.4  
  
2706 9.8 92651.6 -0856.4  
2707 9.4 92652.5 -0830.5  
2708 9.7 92658.8 -0816.5  
2709 10. 92702.5 -0801.8  
2710 10. 92726.6 -0814.9  
2711 9.4 92729.1 -0838.4  
2712 9.3 92757.1 -0808.0  
2713 9.2 92810.2 -0858.8  
2714 10. 92814.7 -0818.4  
2715 10. 92825.7 -0844.4  
  
2716 10. 92830.6 -0845.5  
2717 9.6 92834.6 -0811.4  
2718 9.5 92854.7 -0813.8  
2719 9.1 92921.3 -0853.7  
2720 9.8 92923.0 -0842.3  
2721 9.0 92942.7 -0848.2  
2722 9.3 93010.2 -0819.9  
2723 9.8 93018.2 -0813.4  
2724 9.5 93018.8 -0836.2  
2725 6.0 93045.0 -0846.5  
  
2726 9.1 93050.5 -0807.6  
2727 9.8 93112.1 -0845.1  
2728 9.5 93141.2 -0818.5  
2729 9.7 93218.6 -0809.6  
2730 9.3 93224.6 -0843.1  
2731 9.5 93227.0 -0852.3  
2732 9.5 93257.0 -0840.8  
2733 7.5 93300.1 -0826.0  
2734 9.3 93315.2 -0839.4  
2735 8.7 93323.0 -0807.5  
  
2736 9.3 93324.8 -0821.8  
2737 9.5 93348.3 -0822.1  
2738 9.1 93403.9 -0852.5  
2739 9.1 93404.9 -0856.1  
2740 9.8 93431.2 -0818.4  
2741 9.8 93452.1 -0813.2  
2742 8.8 93458.5 -0828.7  
2743 9.1 93600.1 -0817.1  
2744 10. 93606.0 -0852.8  
2745 9.5 93612.6 -0813.3

-08 2745 9h36m



-08 2746 9h36m

2746 10. 93613.8 -0852.7  
2747 9.5 93616.9 -0803.7  
2748 9.3 93621.5 -0848.7  
2749 9.0 93624.4 -0847.9  
2750 9.8 93630.3 -0824.4  
2751 9.5 93640.5 -0838.7  
2752 9.2 93653.3 -0816.3  
2753 9.6 93700.6 -0859.2  
2754 9.1 93706.2 -0808.1  
2755 9.8 93713.7 -0804.2  
  
2756 9.5 93735.8 -0848.5  
2757 9.5 93804.9 -0839.4  
2758 8.9 93828.8 -0834.1  
2759 9.8 93900.9 -0859.5  
2760 8.9 93911.9 -0837.0  
2761 9.3 93922.6 -0836.7  
2762 9.8 93946.8 -0858.0  
2763 8.8 94006.5 -0831.1  
2764 9.1 94021.8 -0841.7  
2765 9.8 94048.9 -0804.3  
  
2766 9.5 94053.7 -0841.0  
2767 9.4 94057.8 -0849.5  
2768 9.5 94127.7 -0848.2  
2769 9.1 94134.2 -0834.4  
2770 9.2 94143.2 -0834.4  
2771 7.0 94208.3 -0809.6  
2772 9.1 94211.6 -0823.6  
2773 8.6 94221.7 -0831.1  
2774 9.1 94239.0 -0841.4  
2775 9.3 94243.9 -0817.4  
  
2776 9.8 94248.4 -0842.5  
2777 9.8 94249.8 -0849.0  
2778 9.3 94301.7 -0847.3  
2779 9.5 94321.3 -0804.9  
2780 9.8 94351.7 -0854.9  
2781 9.8 94404.2 -0830.0  
2782 9.8 94419.3 -0859.5  
2783 9.5 94427.0 -0818.5  
2784 9.1 94438.5 -0814.9  
2785 10. 94455.1 -0823.4  
  
2786 9.5 94459.2 -0800.7  
2787 9.4 94502.4 -0815.4  
2788 7.8 94518.7 -0832.6  
2789 9.5 94521.7 -0829.2  
2790 9.0 94523.0 -0842.1  
2791 9.8 94544.8 -0802.5  
2792 8.9 94566.0 -0801.6  
2793 9.1 94574.8 -0852.3  
2794 9.1 94800.9 -0811.0  
2795 8.7 94813.8 -0859.0  
  
2796 9.4 94828.5 -0842.8  
2797 7.0 94834.8 -0808.8  
2798 8.8 94846.6 -0828.2  
2799 9.5 94852.0 -0821.5  
2800 9.5 94901.2 -0808.2  
2801 9.1 94916.6 -0831.5  
2802 8.4 94931.0 -0809.0  
2803 8.5 94931.9 -0833.4  
2804 9.6 94935.4 -0800.4  
2805 7.8 94952.4 -0854.1  
  
2806 9.9 94955.7 -0804.9  
2807 8.4 94955.7 -0841.3  
2808 9.5 95002.3 -0812.4  
2809 9.5 95007.6 -0844.5  
2810 9.5 95106.9 -0816.9  
2811 9.2 95140.7 -0805.5  
2812 9.2 95147.1 -0836.1  
2813 9.2 95202.7 -0829.4  
2814 9.2 95210.1 -0831.0  
2815 9.7 95211.3 -0806.2  
  
2816 9.8 95246.1 -0854.7  
2817 9.5 95247.3 -0828.5  
2818 9.6 95256.8 -0829.6  
2819 9.8 95300.1 -0852.5  
2820 9.8 95323.4 -0813.3  
2821 8.3 95324.0 -0855.0  
2822 9.5 95336.7 -0842.3  
2823 9.1 95341.6 -0849.6  
2824 9.7 95344.3 -0827.7  
2825 9.4 95429.4 -0840.1  
  
2826 9.7 95512.4 -0856.7  
2827 9.9 95519.0 -0844.6  
2828 9.4 95520.0 -0832.5  
2829 9.9 95525.9 -0856.6  
2830 9.2 95527.1 -0805.6  
2831 9.8 95541.8 -0818.6  
2832 9.3 95555.1 -0832.7  
2833 8.0 95556.0 -0811.0  
2834 8.4 95600.4 -0851.2  
2835 9.1 95613.5 -0802.9

2836 6.3 95631.0 -0852.4  
2837 9.4 95656.6 -0800.9  
2838 8.5 95709.0 -0827.8  
2839 9.3 95715.9 -0848.4  
2840 9.6 95725.3 -0814.9  
2841 8.8 95732.2 -0810.6  
2842 9.5 95749.8 -0814.6  
2843 8.2 95819.0 -0850.5  
2844 9.6 95903.1 -0848.5  
2845 9.7 95914.5 -0842.1  
  
2846 9.1 95914.7 -0813.7  
2847 9.8 95936.0 -0851.7  
2848 8.8 95955.5 -0847.3  
2849 10. 100007.8 -0822.3  
2850 9.4 100009.0 -0832.8  
2851 8.9 100019.6 -0837.9  
2852 9.2 100070.5 -0835.7  
2853 9.2 100032.9 -0822.9  
2854 8.9 100037.0 -0834.6  
2855 9.9 100108.6 -0840.0  
  
2856 9.1 100112.0 -0819.3  
2857 9.4 100143.1 -0835.1  
2858 9.7 100158.5 -0812.8  
2859 8.9 100211.4 -0800.9  
2860 9.0 100213.5 -0847.3  
2861 9.9 100232.7 -0843.6  
2862 8.8 100308.6 -0800.0  
2863 8.7 100308.8 -0820.8  
2864 9.4 100329.0 -0857.5  
2865 9.4 100357.2 -0812.5  
  
2866 8.3 100406.1 -0841.3  
2867 9.5 100418.0 -0827.2  
2868 9.4 100424.6 -0818.5  
2869 9.7 100437.4 -0808.2  
2870 9.4 100449.8 -0841.5  
2871 9.2 100524.1 -0810.7  
2872 9.8 100528.3 -0840.5  
2873 8.7 100533.7 -0839.4  
2874 9.4 100556.7 -0815.0  
2875 9.6 100604.3 -0818.8  
  
2876 9.8 100625.9 -0845.5  
2877 10. 100704.7 -0859.3  
2878 9.7 100724.2 -0847.9  
2879 8.3 100744.4 -0801.2  
2880 9.8 100745.7 -0818.4  
2881 9.8 100749.6 -0855.1  
2882 9.8 100757.6 -0853.9  
2883 9.8 100831.1 -0811.7  
2884 10. 100854.2 -0817.5  
2885 9.1 100916.0 -0812.4  
  
2886 10. 100920.3 -0856.1  
2887 9.0 100943.1 -0810.8  
2888 8.7 100949.2 -0816.9  
2889 9.3 101017.1 -0845.3  
2890 9.0 101021.9 -0859.0  
2891 9.5 101031.3 -0823.8  
2892 9.1 101055.6 -0817.6  
2893 9.5 101109.3 -0856.5  
2894 9.7 101110.5 -0834.3  
2895 8.0 101158.5 -0836.4  
  
2896 9.4 101225.5 -0827.1  
2897 6.3 101247.9 -0819.3  
2898 10. 101254.8 -0824.5  
2899 8.5 101241.4 -0816.4  
2900 9.7 101354.1 -0857.0  
2901 9.6 101356.1 -0857.5  
2902 9.8 101452.1 -0815.4  
2903 9.8 101455.2 -0818.5  
2904 9.0 101512.0 -0811.0  
2905 9.8 101513.2 -0824.4  
  
2906 7.0 101530.0 -0840.0  
2907 9.0 101558.6 -0857.5  
2908 9.9 101603.6 -0827.1  
2909 9.3 101624.6 -0804.9  
2910 9.6 101647.1 -0843.0  
2911 9.8 101717.9 -0833.1  
2912 10. 101754.3 -0807.5  
2913 10. 101758.3 -0827.3  
2914 9.7 101806.9 -0854.0  
2915 9.8 101810.7 -0832.5  
  
2916 9.5 101824.7 -0851.4  
2917 9.5 101905.2 -0823.5  
2918 9.4 101908.7 -0800.4  
2919 9.8 101921.0 -0853.3  
2920 9.5 101930.3 -0822.1  
2921 9.8 101930.6 -0808.2  
2922 9.6 101933.1 -0817.9  
2923 8.7 101951.3 -0828.9  
2924 9.0 102000.4 -0808.0  
2925 8.5 102005.6 -0824.2

2926 8.6 102034.1 -0848.6  
2927 10. 102037.3 -0840.0  
2928 9.5 102037.7 -0858.1  
2929 9.5 102105.9 -0836.7  
2930 9.8 102112.9 -0831.5  
2931 10. 102119.5 -0857.4  
2932 8.7 102128.4 -0811.0  
2933 9.1 102130.5 -0852.5  
2934 9.1 102140.2 -0846.6  
2935 8.8 102154.3 -0820.5  
  
2936 10. 102155.2 -0823.8  
2937 9.6 102156.4 -0858.5  
2938 8.7 102220.5 -0823.2  
2939 9.4 102225.9 -0851.6  
2940 9.7 102236.0 -0824.3  
2941 9.8 102247.7 -0838.7  
2942 9.1 102256.4 -0857.5  
2943 9.4 102351.9 -0808.9  
2944 9.5 102422.0 -0859.3  
2945 7.5 102430.0 -0812.2  
  
2946 8.8 102603.3 -0837.0  
2947 10. 102603.5 -0847.5  
2948 9.3 102618.0 -0837.5  
2949 9.6 102620.3 -0858.4  
2950 9.1 102641.9 -0806.0  
2951 9.5 102646.4 -0830.8  
2952 9.4 102655.8 -0839.7  
2953 9.4 102656.5 -0833.5  
2954 8.7 102702.7 -0831.9  
2955 9.3 102706.6 -0825.4  
  
2956 8.7 102713.5 -0821.7  
2957 9.8 102739.6 -0847.3  
2958 9.5 102818.8 -0855.2  
2959 9.8 102845.8 -0842.3  
2960 10. 102857.3 -0832.0  
2961 8.4 102928.9 -0851.9  
2962 9.0 102934.2 -0835.8  
2963 6.8 102946.5 -0805.4  
2964 9.3 102952.3 -0806.7  
2965 9.8 103006.5 -0835.4  
  
2966 9.0 103014.8 -0846.8  
2967 8.7 103024.8 -0857.9  
2968 9.0 103042.2 -0816.8  
2969 9.3 103051.1 -0830.0  
2970 10. 103135.1 -0859.8  
2971 9.3 103147.6 -0800.3  
2972 9.4 103155.5 -0821.8  
2973 9.3 103213.0 -0843.8  
2974 9.8 103233.2 -0800.4  
2975 8.6 103235.0 -0856.7  
  
2976 7.7 103300.9 -0817.4  
2977 9.8 103327.6 -0830.6  
2978 9.1 103335.6 -0817.1  
2979 9.3 103336.4 -0845.4  
2980 9.9 103340.5 -0834.1  
2981 8.8 103349.2 -0805.2  
2982 9.5 103440.4 -0826.7  
2983 9.7 103450.4 -0849.1  
2984 9.3 103452.7 -0857.9  
2985 9.4 103552.8 -0827.3  
  
2986 9.0 103558.8 -0819.3  
2987 9.8 103634.3 -0845.8  
2988 9.8 103701.7 -0852.1  
2989 4.8 103712.1 -0851.8  
2990 9.5 103726.9 -0831.1  
2991 9.6 103740.2 -0848.1  
2992 10. 103752.5 -0857.8  
2993 9.8 103753.3 -0837.0  
2994 9.9 103813.4 -0807.3  
2995 9.2 103819.1 -0820.3  
  
2996 9.1 103832.8 -0839.2  
2997 8.2 103855.6 -0857.2  
2998 9.4 103920.5 -0802.1  
2999 7.8 103934.9 -0837.8  
3000 9.0 103958.7 -0815.7  
3001 9.1 104003.1 -0835.9  
3002 9.5 104008.7 -0816.2  
3003 8.5 104026.1 -0844.3  
3004 9.2 104029.2 -0813.9  
3005 9.0 104041.2 -0816.3  
  
3006 8.6 104046.9 -0848.0  
3007 9.8 104104.9 -0802.6  
3008 9.2 104131.1 -0805.9  
3009 9.5 104135.6 -0839.5  
3010 7.3 104141.2 -0820.0  
3011 9.3 104152.1 -0811.1  
3012 9.4 104158.8 -0807.9  
3013 9.7 104200.2 -0805.0  
3014 9.0 104219.7 -0815.7  
3015 9.6 104221.9 -0818.2

3016 9.4 104227.7 -0840.3  
3017 7.8 104258.1 -0813.4  
3018 5.2 104301.5 -0807.2  
3019 9.5 104316.8 -0806.7  
3020 10. 104340.5 -0847.3  
3021 8.3 104341.6 -0806.7  
3022 8.9 104343.2 -0816.3  
3023 9.0 104356.1 -0819.7  
3024 9.1 104359.6 -0820.5  
3025 8.2 104421.7 -0805.7  
  
3026 9.6 104429.2 -0849.1  
3027 9.8 104443.1 -0818.3  
3028 9.8 104508.2 -0830.5  
3029 8.2 104555.3 -0834.6  
3030 9.5 104635.9 -0837.4  
3031 10. 104636.0 -0857.8  
3032 9.8 104636.4 -0852.4  
3033 9.3 104655.7 -0831.2  
3034 9.8 104658.0 -0804.2  
3035 9.6 104713.9 -0839.9  
  
3036 9.8 104738.4 -0852.6  
3037 9.5 104745.7 -0830.6  
3038 10. 104747.2 -0846.8  
3039 9.1 104800.2 -0847.5  
3040 9.8 104813.9 -0855.1  
3041 9.2 104814.7 -0825.7  
3042 9.9 104817.1 -0825.7  
3043 9.4 104835.2 -0826.9  
3044 9.8 104845.5 -0840.9  
3045 9.6 104924.0 -0813.9  
  
3046 9.0 104953.0 -0803.7  
3047 9.0 105026.3 -0844.2  
3048 9.4 105028.1 -0840.1  
3049 9.0 105031.1 -0815.3  
3050 9.3 105034.4 -0839.2  
3051 9.8 105033.3 -0845.4  
3052 9.5 105043.5 -0826.9  
3053 9.2 105131.5 -0813.0  
3054 9.5 105134.2 -0826.9  
3055 9.0 105134.7 -0804.8  
  
3056 9.8 105135.5 -0816.9  
3057 9.0 105143.1 -0824.2  
3058 9.1 105155.0 -0815.1  
3059 8.8 105230.6 -0826.4  
3060 9.6 105234.9 -0855.5  
3061 9.3 105240.4 -0854.8  
3062 7.3 105305.5 -0842.7  
3063 8.8 105327.0 -0828.9  
3064 9.3 105333.9 -0802.4  
3065 10. 105354.3 -0841.3  
  
3066 7.3 105357.8 -0859.6  
3067 9.4 105407.6 -0805.8  
3068 8.6 105534.5 -0832.8  
3069 9.5 105549.7 -0852.4  
3070 9.6 105556.2 -0830.9  
3071 9.1 105604.4 -0813.4  
3072 9.3 105608.8 -0844.7  
3073 9.5 105612.4 -0825.7  
3074 7.8 105639.9 -0817.6  
3075 9.3 105656.7 -0852.4  
  
3076 9.0 105706.4 -0813.6  
3077 9.8 105734.7 -0840.8  
3078 9.0 105757.6 -0812.6  
3079 9.6 105838.2 -0856.8  
3080 9.4 105829.5 -0826.8  
3081 8.2 105840.4 -0822.4  
3082 9.2 105915.0 -0829.9  
3083 9.3 105915.2 -0844.5  
3084 9.4 105925.8 -0802.1  
3085 9.6 110020.9 -0854.7  
  
3086 9.1 110037.0 -0839.7  
3087 10. 110106.7 -0855.1  
3088 9.4 110120.6 -0800.6  
3089 10. 110126.5 -0800.3  
3090 9.8 110136.2 -0852.9  
3091 9.0 110201.8 -0802.0  
3092 9.0 110233.8 -0844.5  
3093 9.1 110241.4 -0834.9  
3094 7.7 110210.2 -0814.1  
3095 8.0 110315.4 -0837.8  
  
3096 10. 110341.6 -0848.0  
3097 9.5 110341.6 -0850.1  
3098 9.5 110356.1 -0857.9  
3099 8.7 110405.4 -0834.2  
3100 9.8 110419.1 -0848.0  
3101 7.5 110456.2 -0841.7  
3102 9.0 110518.1 -0856.3  
3103 9.8 110538.2 -0821.3  
3104 9.1 110542.0 -0832.1  
3105 9.7 110542.5 -0854.4

-08 3105 11h05m



-08 3106 11h06m

3106 9.5 110601.0 -0810.6  
3107 9.4 110625.8 -0813.2  
3108 9.5 110626.0 -0843.7  
3109 9.5 110630.7 -0833.3  
3110 9.8 110711.5 -0841.1  
3111 9.3 110713.6 -0821.5  
3112 9.5 110725.8 -0840.2  
3113 9.8 110730.9 -0801.7  
3114 8.7 110746.1 -0819.2  
3115 9.4 110805.3 -0800.2  
  
3116 9.4 110817.1 -0811.4  
3117 9.5 110827.5 -0807.4  
3118 10. 110835.2 -0847.0  
3119 7.5 110843.5 -0806.4  
3120 9.5 110855.3 -0809.7  
3121 9.4 110925.6 -0811.3  
3122 9.8 110926.7 -0825.6  
3123 9.4 110958.1 -0812.0  
3124 8.8 110959.0 -0808.7  
3125 9.2 111008.1 -0839.6  
  
3126 9.6 111015.3 -0836.2  
3127 10. 111049.5 -0857.0  
3128 9.4 111059.2 -0832.9  
3129 9.7 111114.7 -0844.5  
3130 9.4 111117.9 -0818.9  
3131 9.8 111120.9 -0805.0  
3132 9.4 111126.9 -0809.8  
3133 9.8 111141.9 -0808.7  
3134 9.1 111158.1 -0828.1  
3135 9.4 111222.0 -0817.2  
  
3136 9.4 111240.9 -0806.0  
3137 9.8 111251.7 -0856.1  
3138 8.5 111252.7 -0804.2  
3139 8.9 111256.5 -0827.3  
3140 9.6 111301.6 -0849.5  
3141 8.3 111315.2 -0853.8  
3142 9.8 111316.5 -0820.6  
3143 10. 111323.1 -0815.9  
3144 9.8 111331.9 -0850.9  
3145 9.6 111340.3 -0826.8  
  
3146 10. 111342.9 -0800.8  
3147 9.4 111346.4 -0844.9  
3148 9.7 111407.9 -0832.0  
3149 9.3 111409.9 -0817.8  
3150 9.5 111413.4 -0851.8  
3151 9.5 111420.8 -0801.8  
3152 9.5 111425.3 -0802.9  
3153 9.8 111432.4 -0851.1  
3154 6.5 111508.5 -0802.8  
3155 9.9 111508.9 -0851.9  
  
3156 9.8 111544.8 -0859.3  
3157 9.0 111610.6 -0827.4  
3158 9.4 111625.1 -0836.5  
3159 9.8 111628.3 -0851.0  
3160 9.5 111643.1 -0837.4  
3161 10. 111703.8 -0840.3  
3162 9.5 111723.8 -0806.7  
3163 9.5 111728.8 -0858.2  
3164 8.6 111732.0 -0847.1  
3165 9.3 111742.4 -0813.6  
  
3166 9.5 111756.9 -0822.0  
3167 9.9 111805.9 -0817.0  
3168 9.5 111809.7 -0858.2  
3169 9.1 111822.5 -0820.3  
3170 9.3 111859.0 -0842.7  
3171 9.0 111920.4 -0825.1  
3172 9.3 111932.1 -0802.4  
3173 7.9 111955.9 -0804.3  
3174 9.8 111957.3 -0852.8  
3175 9.5 112006.3 -0831.6  
  
3176 9.5 112012.6 -0839.8  
3177 9.6 112020.5 -0804.0  
3178 9.3 112030.8 -0815.5  
3179 9.8 112059.9 -0804.3  
3180 9.1 112247.7 -0833.9  
3181 9.0 112313.1 -0802.2  
3182 9.5 112333.7 -0852.8  
3183 9.6 112352.4 -0807.4  
3184 10. 112448.1 -0850.4  
3185 9.5 112515.8 -0839.2  
  
3186 8.2 112523.6 -0808.8  
3187 9.6 112528.7 -0849.1  
3188 8.8 112558.4 -0844.5  
3189 9.5 112601.3 -0811.5  
3190 8.7 112604.4 -0819.6  
3191 9.9 112641.7 -0801.5  
3192 8.8 112646.8 -0816.9  
3193 9.5 112701.2 -0815.9  
3194 9.2 112711.3 -0831.5  
3195 9.2 112723.2 -0808.1

3196 9.5 112736.2 -0808.2  
3197 8.3 112751.8 -0827.7  
3198 9.5 112838.0 -0837.8  
3199 8.8 112857.7 -0808.8  
3200 9.4 112910.2 -0841.0  
3201 7.0 112919.2 -0830.5  
3202 4.4 112919.4 -0859.9  
3203 8.5 112930.3 -0807.0  
3204 9.5 112957.8 -0849.0  
3205 9.1 113012.7 -0802.8  
  
3206 9.7 113055.6 -0838.0  
3207 10. 113058.0 -0826.9  
3208 10. 113101.6 -0836.8  
3209 10. 113109.5 -0821.4  
3210 9.4 113144.6 -0846.2  
3211 7.2 113216.9 -0839.8  
3212 9.5 113247.2 -0830.0  
3213 8.5 113326.6 -0802.4  
3214 9.5 113345.0 -0824.0  
3215 9.5 113352.6 -0852.4  
  
3216 9.8 113416.2 -0830.2  
3217 7.0 113424.1 -0815.9  
3218 9.5 113425.4 -0809.9  
3219 10. 113431.2 -0843.2  
3220 9.9 113442.6 -0856.4  
3221 9.2 113514.3 -0841.5  
3222 9.5 113524.0 -0825.5  
3223 9.9 113525.4 -0808.1  
3224 8.2 113526.9 -0851.1  
3225 7.2 113535.2 -0819.3  
  
3226 9.2 113537.9 -0806.0  
3227 9.5 113559.5 -0859.4  
3228 8.9 113611.5 -0822.5  
3229 6.5 113631.7 -0819.5  
3230 9.5 113706.6 -0821.3  
3231 9.5 113715.8 -0840.6  
3232 8.8 113721.1 -0821.4  
3233 9.7 113728.5 -0817.7  
3234 9.1 113811.2 -0836.7  
3235 9.5 113829.9 -0850.0  
  
3236 9.2 113840.6 -0827.1  
3237 9.4 113853.8 -0802.1  
3238 9.1 113941.1 -0821.3  
3239 9.7 113945.2 -0836.9  
3240 9.3 114031.0 -0815.9  
3241 7.3 114053.9 -0804.2  
3242 7.8 114108.2 -0834.1  
3243 7.5 114139.6 -0818.8  
3244 8.7 114145.8 -0802.4  
3245 9.2 114258.4 -0823.0  
  
3246 9.3 114312.1 -0835.8  
3247 7.8 114320.5 -0835.6  
3248 9.2 114323.1 -0840.1  
3249 7.5 114339.5 -0828.0  
3250 9.8 114416.0 -0807.5  
3251 9.5 114430.8 -0828.4  
3252 9.3 114451.4 -0823.0  
3253 9.4 114518.0 -0827.5  
3254 9.2 114519.4 -0808.7  
3255 8.2 114711.3 -0854.7  
  
3256 8.5 114728.0 -0826.1  
3257 9.1 114752.1 -0846.7  
3258 9.1 114834.0 -0819.6  
3259 9.8 114852.9 -0811.9  
3260 9.2 114907.0 -0845.2  
3261 9.5 114917.8 -0815.2  
3262 9.5 114920.9 -0844.1  
3263 9.4 114922.8 -0811.4  
3264 9.1 114941.9 -0837.0  
3265 8.9 115025.6 -0810.6  
  
3266 9.5 115043.8 -0851.3  
3267 8.5 115130.6 -0830.3  
3268 9.3 115144.0 -0827.3  
3269 9.9 115157.4 -0825.8  
3270 9.6 115202.9 -0832.5  
3271 8.9 115214.3 -0806.0  
3272 9.6 115220.8 -0845.9  
3273 9.5 115307.9 -0837.1  
3274 9.4 115311.3 -0815.0  
3275 9.4 115328.2 -0809.6  
  
3276 9.5 115443.8 -0819.0  
3277 9.5 115513.2 -0842.6  
3278 9.1 115607.5 -0821.9  
3279 9.0 115649.1 -0852.7  
3280 8.7 115653.5 -0832.9  
3281 8.2 115740.7 -0829.8  
3282 9.0 115749.7 -0832.9  
3283 9.2 115758.3 -0825.9  
3284 9.5 115804.2 -0815.6  
3285 9.5 115831.7 -0803.8

3286 10. 115853.9 -0851.3  
3287 9.8 115854.3 -0834.5  
3288 8.0 115918.3 -0836.3  
3289 9.6 120005.5 -0825.7  
3290 9.5 120206.6 -0851.3  
3291 9.1 120210.9 -0800.8  
3292 9.5 120249.5 -0854.7  
3293 8.8 120259.6 -0843.4  
3294 8.0 120315.7 -0835.8  
3295 7.5 120321.7 -0835.1  
  
3296 9.0 120405.1 -0849.9  
3297 9.5 120414.5 -0854.7  
3298 9.5 120429.0 -0840.0  
3299 9.7 120542.5 -0803.1  
3300 9.2 120547.1 -0810.5  
3301 8.0 120554.9 -0816.3  
3302 9.2 120556.3 -0840.6  
3303 7.8 120611.4 -0842.1  
3304 8.8 120635.6 -0837.6  
3305 9.5 120637.6 -0818.5  
  
3306 9.8 120643.0 -0853.9  
3307 9.8 120650.9 -0857.2  
3308 1.0 120711.2 -0810.8  
3309 1.7 120739.5 -0827.1  
3310 5.6 120743.3 -0838.6  
3311 8.8 120879.5 -0824.2  
3312 9.0 120913.9 -0819.3  
3313 9.8 120947.1 -0817.3  
3314 9.5 120952.9 -0849.4  
3315 8.2 121012.4 -0853.8  
  
3316 7.5 121105.1 -0805.5  
3317 9.5 121116.5 -0850.0  
3318 9.4 121122.9 -0858.5  
3319 9.3 121124.2 -0848.9  
3320 9.0 121131.0 -0813.0  
3321 6.8 121133.1 -0833.8  
3322 9.1 121150.7 -0802.2  
3323 7.0 121152.8 -0806.3  
3324 9.3 121204.6 -0815.0  
3325 9.6 121206.4 -0807.0  
  
3326 9.5 121219.7 -0829.3  
3327 10. 121240.9 -0852.7  
3328 9.5 121252.3 -0815.0  
3329 9.0 121253.9 -0812.3  
3330 9.4 121314.2 -0849.6  
3331 8.9 121340.9 -0810.8  
3332 7.7 121345.9 -0844.8  
3333 8.6 121408.5 -0825.5  
3334 9.1 121445.2 -0804.2  
3335 9.2 121505.8 -0853.4  
  
3336 9.0 121520.8 -0857.8  
3337 9.4 121544.4 -0821.5  
3338 7.2 121546.3 -0858.2  
3339 9.3 121619.3 -0851.8  
3340 9.3 121631.0 -0826.2  
3341 10. 121713.7 -0859.8  
3342 9.5 121730.3 -0802.3  
3343 9.4 121733.4 -0827.1  
3344 10. 121804.2 -0846.0  
3345 9.1 121906.8 -0819.0  
  
3346 8.9 121908.8 -0849.8  
3347 8.5 121922.1 -0849.9  
3348 7.9 121931.6 -0801.3  
3349 9.5 121940.8 -0836.3  
3350 9.5 121953.7 -0853.0  
3351 9.9 121955.1 -0850.9  
3352 9.2 122005.4 -0835.1  
3353 9.5 122007.4 -0855.1  
3354 9.8 122026.9 -0840.7  
3355 9.5 122115.8 -0845.8  
  
3356 9.1 122122.7 -0852.3  
3357 9.7 122152.0 -0829.8  
3358 9.5 122154.6 -0855.1  
3359 9.3 122234.0 -0806.3  
3360 9.7 122245.8 -0846.2  
3361 9.6 122300.8 -0857.0  
3362 9.1 122318.9 -0835.8  
3363 8.2 122327.4 -0849.0  
3364 8.7 122340.7 -0841.2  
3365 9.8 122349.5 -0859.1  
  
3366 7.0 122356.3 -0827.6  
3367 9.8 122438.0 -0856.4  
3368 10. 122439.9 -0850.6  
3369 9.1 122501.8 -0835.1  
3370 9.6 122550.8 -0836.0  
3371 9.7 122603.3 -0847.5  
3372 5.3 122617.8 -0838.9  
3373 8.6 122639.2 -0802.9  
3374 8.7 122655.4 -0848.1  
3375 9.1 122704.4 -0807.8

3376 9.8 122743.9 -0828.9  
3377 9.4 122747.7 -0823.3  
3378 9.0 122757.2 -0838.3  
3379 9.6 122820.8 -0839.6  
3380 8.8 122823.6 -0815.7  
3381 9.7 122828.2 -0834.9  
3382 9.4 122837.5 -0802.5  
3383 9.4 122847.5 -0849.0  
3384 9.8 122909.3 -0854.8  
3385 9.9 122931.2 -0835.4  
  
3386 10. 122959.5 -0846.0  
3387 8.4 123000.8 -0851.5  
3388 9.8 123041.9 -0818.4  
3389 9.8 123042.7 -0821.3  
3390 9.4 123053.4 -0826.1  
3391 10. 123055.8 -0852.0  
3392 10. 123057.7 -0855.6  
3393 10. 123058.5 -0818.6  
3394 9.9 123156.8 -0849.5  
3395 9.5 123213.5 -0809.4  
  
3396 9.5 123228.6 -0835.1  
3397 9.7 123235.6 -0821.1  
3398 9.9 123311.0 -0829.6  
3399 9.0 123320.7 -0858.6  
3400 9.5 123332.4 -0827.1  
3401 7.6 123339.1 -0826.0  
3402 9.4 123351.0 -0810.4  
3403 9.0 123405.6 -0859.9  
3404 9.3 123408.1 -0831.6  
3405 9.2 123418.7 -0806.3  
  
3406 9.9 123432.1 -0837.0  
3407 9.2 123435.6 -0857.8  
3408 10. 123447.8 -0825.7  
3409 8.8 123524.3 -0840.9  
3410 9.5 123550.5 -0818.5  
3411 9.1 123609.0 -0802.0  
3412 9.6 123616.9 -0816.7  
3413 7.5 123617.7 -0858.7  
3414 10. 123628.8 -0831.7  
3415 9.2 123629.2 -0858.3  
  
3416 9.5 123703.8 -0827.6  
3417 9.8 123735.8 -0849.9  
3418 9.8 123739.3 -0842.0  
3419 9.5 123742.7 -0835.5  
3420 9.5 123809.0 -0815.3  
3421 9.5 123823.4 -0825.8  
3422 9.3 123826.5 -0839.7  
3423 8.0 123828.2 -0830.7  
3424 7.3 123935.4 -0825.0  
3425 8.5 124029.0 -0822.4  
  
3426 8.7 124030.5 -0821.1  
3427 9.0 124104.1 -0858.8  
3428 9.8 124113.6 -0843.7  
3429 7.3 124128.7 -0825.4  
3430 9.3 124129.7 -0853.9  
3431 9.7 124201.1 -0802.3  
3432 9.8 124226.4 -0817.0  
3433 9.2 124240.7 -0814.4  
3434 9.4 124331.3 -0854.8  
3435 9.5 124341.2 -0826.6  
  
3436 9.0 124344.0 -0824.5  
3437 9.5 124404.3 -0859.9  
3438 9.5 124431.5 -0812.0  
3439 9.2 124433.2 -0834.3  
3440 9.0 124436.4 -0854.3  
3441 9.5 124501.7 -0821.2  
3442 9.5 124533.4 -0819.4  
3443 9.1 124533.7 -0826.1  
3444 9.7 124536.6 -0805.3  
3445 7.5 124605.7 -0816.5  
  
3446 8.8 124609.9 -0849.7  
3447 9.5 124622.0 -0859.0  
3448 9.4 124624.1 -0808.6  
3449 5.3 124648.4 -0844.8  
3450 9.8 124708.3 -0809.9  
3451 8.3 124728.2 -0823.1  
3452 9.8 124804.1 -0817.2  
3453 10. 124820.4 -0805.0  
3454 9.7 124871.3 -0844.8  
3455 10. 124858.2 -0826.6  
  
3456 6.8 124947.0 -0807.7  
3457 7.5 124955.1 -0858.6  
3458 9.5 125014.0 -0837.4  
3459 9.4 125040.0 -0814.7  
3460 9.4 125043.5 -0817.3  
3461 9.5 125050.1 -0827.3  
3462 10. 125126.8 -0812.4  
3463 9.5 125204.4 -0825.5  
3464 9.3 125207.5 -0808.5  
3465 9.3 125249.9 -0833.2

-08 3465 12h52m



-08 3466 12h52m

-08 3825 14h36m

|                           |                           |                            |                           |
|---------------------------|---------------------------|----------------------------|---------------------------|
| 3466 7.5 125257.3 -0818.9 | 3556 9.7 131831.4 -0845.3 | 3646 9.8 134302.4 -0849.2  | 3736 9.3 140839.0 -0846.1 |
| 3467 9.4 125305.0 -0812.6 | 3557 9.5 131844.1 -0815.3 | 3647 9.5 134306.3 -0855.0  | 3737 6.0 140907.1 -0812.3 |
| 3468 8.9 125312.1 -0837.4 | 3558 9.5 131911.8 -0853.8 | 3648 9.2 134327.7 -0836.8  | 3738 9.3 140931.8 -0815.0 |
| 3469 9.7 125332.9 -0851.4 | 3559 8.7 131954.1 -0826.4 | 3649 9.4 134354.7 -0847.3  | 3739 9.2 140939.6 -0848.4 |
| 3470 8.9 125357.2 -0840.4 | 3560 10. 132003.2 -0800.3 | 3650 9.8 134359.8 -0800.5  | 3740 6.5 140940.0 -0820.2 |
| 3471 8.5 125407.2 -0851.2 | 3561 10. 132021.1 -0816.8 | 3651 9.5 134418.1 -0813.2  | 3741 9.5 140946.2 -0840.5 |
| 3472 9.5 125422.2 -0820.1 | 3562 8.0 132051.6 -0859.4 | 3652 9.5 134425.3 -0800.9  | 3742 9.5 140958.5 -0837.1 |
| 3473 9.2 125442.7 -0842.2 | 3563 9.4 132103.3 -0833.4 | 3653 9.5 134439.2 -0822.0  | 3743 9.4 141003.8 -0805.5 |
| 3474 9.5 125506.7 -0844.3 | 3564 9.5 132107.2 -0824.9 | 3654 9.5 134443.2 -0800.5  | 3744 9.1 141005.4 -0818.5 |
| 3475 9.2 125509.0 -0813.9 | 3565 9.8 132120.9 -0811.6 | 3655 9.5 134507.4 -0804.6  | 3745 9.8 141036.5 -0830.7 |
| 3476 10. 125513.1 -0808.5 | 3566 8.7 132144.9 -0801.9 | 3656 9.8 134529.2 -0801.4  | 3746 9.7 141037.9 -0842.0 |
| 3477 8.9 125519.4 -0813.5 | 3567 9.5 132155.5 -0836.2 | 3657 8.8 134615.8 -0807.6  | 3747 9.1 141049.0 -0821.1 |
| 3478 9.6 125533.6 -0855.9 | 3568 9.2 132212.3 -0845.0 | 3658 9.1 134616.1 -0847.6  | 3748 8.7 141049.7 -0844.4 |
| 3479 9.6 125535.0 -0811.6 | 3569 9.4 132221.3 -0845.1 | 3659 9.5 134635.7 -0833.0  | 3749 9.6 141053.9 -0805.2 |
| 3480 9.5 125543.1 -0856.6 | 3570 8.8 132258.0 -0849.1 | 3660 9.2 134712.4 -0804.0  | 3750 8.7 141115.0 -0829.3 |
| 3481 9.5 125545.9 -0805.5 | 3571 9.8 132309.7 -0811.7 | 3661 8.8 134727.8 -0851.5  | 3751 10. 141120.7 -0818.3 |
| 3482 9.8 125645.0 -0857.5 | 3572 8.7 132310.2 -0801.4 | 3662 9.4 134734.8 -0853.3  | 3752 9.4 141166.8 -0826.0 |
| 3483 9.5 125701.5 -0802.3 | 3573 9.3 132315.4 -0802.2 | 3663 9.5 134743.1 -0809.1  | 3753 9.5 141203.5 -0838.9 |
| 3484 9.7 125722.1 -0808.2 | 3574 8.5 132316.5 -0856.6 | 3664 7.5 134752.3 -0848.7  | 3754 9.7 141203.8 -0841.5 |
| 3485 9.8 125744.0 -0827.4 | 3575 9.9 132328.5 -0854.8 | 3665 10. 134754.1 -0813.2  | 3755 9.5 141216.4 -0836.5 |
| 3486 9.5 125805.5 -0835.7 | 3576 7.5 132346.5 -0821.5 | 3666 9.5 134804.3 -0842.2  | 3756 9.4 141221.9 -0823.0 |
| 3487 9.8 125901.5 -0858.5 | 3577 9.0 132416.3 -0839.5 | 3667 6.2 134808.0 -0850.8  | 3757 8.7 141233.4 -0801.0 |
| 3488 9.1 125907.1 -0847.9 | 3578 9.3 132435.0 -0824.0 | 3668 9.6 134810.9 -0808.4  | 3758 9.5 141236.0 -0808.0 |
| 3489 10. 125920.2 -0801.6 | 3579 9.5 132500.0 -0806.6 | 3669 9.6 134857.3 -0850.5  | 3759 9.2 141326.6 -0848.4 |
| 3490 10. 125954.0 -0810.5 | 3580 9.0 132509.4 -0825.3 | 3670 9.2 134904.6 -0836.8  | 3760 9.2 141352.4 -0846.2 |
| 3491 5.5 130058.9 -0812.2 | 3581 9.3 132551.9 -0813.1 | 3671 9.5 134913.1 -0821.7  | 3761 8.8 141405.7 -0800.6 |
| 3492 9.4 130105.3 -0823.7 | 3582 9.1 132602.6 -0845.2 | 3672 8.5 135033.0 -0820.8  | 3762 9.5 141414.9 -0837.1 |
| 3493 9.5 130120.6 -0840.9 | 3583 9.8 132634.9 -0855.6 | 3673 9.0 135101.6 -0830.6  | 3763 9.5 141421.3 -0804.2 |
| 3494 9.5 130126.9 -0836.4 | 3584 7.8 132704.5 -0821.9 | 3674 9.2 135115.2 -0841.0  | 3764 9.5 141452.4 -0823.9 |
| 3495 7.0 130140.7 -0845.8 | 3585 9.5 132713.4 -0820.0 | 3675 8.8 135203.3 -0856.3  | 3765 9.3 141521.9 -0816.7 |
| 3496 10. 130140.9 -0832.5 | 3586 8.7 132717.4 -0817.3 | 3676 9.0 135219.6 -0836.6  | 3766 9.3 141539.5 -0847.4 |
| 3497 9.3 130155.8 -0849.5 | 3587 9.5 132723.6 -0856.0 | 3677 10. 135302.1 -0836.4  | 3767 9.7 141559.6 -0817.6 |
| 3498 9.8 130234.5 -0846.6 | 3588 10. 132724.7 -0846.9 | 3678 9.0 135330.6 -0832.6  | 3768 10. 141621.3 -0805.6 |
| 3499 9.8 130253.8 -0857.0 | 3589 8.4 132739.3 -0809.8 | 3679 9.3 135358.4 -0817.7  | 3769 9.3 141627.3 -0856.0 |
| 3500 9.0 130324.3 -0808.9 | 3590 9.5 132757.1 -0832.1 | 3680 9.0 135408.9 -0802.4  | 3770 9.1 141638.3 -0802.0 |
| 3501 9.5 130335.0 -0810.1 | 3591 9.6 132807.4 -0815.6 | 3681 10. 135433.1 -0857.9  | 3771 9.1 141656.3 -0800.0 |
| 3502 8.7 130344.3 -0848.8 | 3592 9.5 132811.5 -0803.4 | 3682 9.8 135448.0 -0830.9  | 3772 9.5 141700.5 -0806.1 |
| 3503 9.5 130405.4 -0824.2 | 3593 9.1 132817.8 -0808.7 | 3683 9.2 135454.3 -0806.8  | 3773 9.5 141712.0 -0857.3 |
| 3504 9.5 130410.4 -0805.2 | 3594 9.3 132832.0 -0848.4 | 3684 9.0 135515.5 -0833.1  | 3774 9.3 141712.4 -0832.5 |
| 3505 9.8 130428.8 -0842.7 | 3595 9.5 132837.9 -0817.0 | 3685 8.5 135519.1 -0848.4  | 3775 9.3 141725.3 -0831.3 |
| 3506 9.4 130429.4 -0838.9 | 3596 9.8 132905.0 -0829.6 | 3686 9.4 135606.9 -0819.5  | 3776 10. 141730.8 -0853.0 |
| 3507 10. 130444.1 -0804.7 | 3597 9.7 132908.3 -0843.0 | 3687 9.5 135625.9 -0822.0  | 3777 9.5 141748.3 -0835.7 |
| 3508 8.5 130539.7 -0809.9 | 3598 9.5 132914.6 -0859.8 | 3688 8.0 135639.1 -0849.9  | 3778 9.1 141804.4 -0825.3 |
| 3509 10. 130600.4 -0857.4 | 3599 9.6 132924.0 -0800.1 | 3689 6.5 135641.0 -0833.2  | 3779 9.3 141832.4 -0816.8 |
| 3510 9.5 130611.7 -0843.3 | 3600 9.5 132950.0 -0800.8 | 3690 9.2 135701.2 -0803.3  | 3780 10. 141854.1 -0825.7 |
| 3511 9.5 130614.2 -0801.8 | 3601 9.2 133035.1 -0859.8 | 3691 8.8 135708.1 -0853.9  | 3781 8.7 142027.1 -0806.3 |
| 3512 9.4 130625.9 -0802.3 | 3602 8.7 133042.6 -0821.1 | 3692 30.0 135712.0 -0830.0 | 3782 9.1 142053.8 -0816.6 |
| 3513 9.8 130654.8 -0830.1 | 3603 9.6 133045.6 -0842.2 | 3693 8.0 135731.4 -0821.1  | 3783 9.5 142059.1 -0853.2 |
| 3514 9.7 130708.8 -0847.4 | 3604 8.7 133056.5 -0825.5 | 3694 9.5 135800.5 -0831.8  | 3784 9.5 142118.1 -0848.3 |
| 3515 9.2 130717.8 -0826.3 | 3605 9.3 133127.0 -0802.8 | 3695 9.9 135811.5 -0827.9  | 3785 9.5 142206.2 -0814.5 |
| 3516 9.5 130745.9 -0845.2 | 3606 9.5 133141.3 -0817.5 | 3696 6.8 135837.3 -0811.8  | 3786 9.5 142256.3 -0823.1 |
| 3517 10. 130800.7 -0839.7 | 3607 9.3 133143.4 -0840.7 | 3697 5.0 135903.0 -0837.0  | 3787 9.8 142256.7 -0845.1 |
| 3518 9.3 130822.6 -0851.5 | 3608 8.0 133144.5 -0836.3 | 3698 9.8 135908.4 -0834.3  | 3788 9.5 142305.2 -0817.1 |
| 3519 9.2 130834.2 -0803.1 | 3609 9.5 133208.8 -0820.9 | 3699 9.5 135933.9 -0815.6  | 3789 9.5 142310.9 -0825.5 |
| 3520 10. 130839.9 -0852.0 | 3610 8.5 133216.0 -0832.3 | 3700 9.5 135944.9 -0808.9  | 3790 9.7 142311.8 -0828.9 |
| 3521 9.5 130857.3 -0811.9 | 3611 9.0 133242.9 -0833.5 | 3701 9.7 135946.1 -0849.9  | 3791 9.4 142358.3 -0809.7 |
| 3522 9.5 130923.7 -0808.7 | 3612 9.1 133319.9 -0823.1 | 3702 9.5 135950.1 -0854.4  | 3792 9.3 142418.2 -0816.5 |
| 3523 9.5 130928.8 -0831.1 | 3613 9.5 133339.0 -0827.2 | 3703 9.7 135955.1 -0848.4  | 3793 9.3 142448.4 -0826.5 |
| 3524 9.0 131003.2 -0853.6 | 3614 9.3 133354.7 -0805.1 | 3704 9.4 140045.6 -0820.7  | 3794 9.7 142453.9 -0847.7 |
| 3525 9.0 131008.2 -0818.1 | 3615 9.1 133356.8 -0804.8 | 3705 8.5 140057.2 -0810.2  | 3795 9.0 142611.9 -0851.3 |
| 3526 9.1 131020.5 -0801.2 | 3616 9.5 133412.4 -0828.6 | 3706 9.5 140125.9 -0821.3  | 3796 9.5 142624.0 -0845.3 |
| 3527 8.8 131043.7 -0848.8 | 3617 9.5 133417.9 -0828.7 | 3707 9.3 140126.4 -0813.8  | 3797 9.0 142717.7 -0810.7 |
| 3528 9.7 131045.5 -0854.3 | 3618 8.7 133418.6 -0856.1 | 3708 9.5 140134.1 -0854.9  | 3798 8.7 142723.6 -0840.1 |
| 3529 9.5 131055.2 -0840.1 | 3619 9.4 133427.5 -0834.5 | 3709 9.3 140151.2 -0807.8  | 3799 7.8 142732.8 -0827.2 |
| 3530 9.3 131121.5 -0840.0 | 3620 8.2 133429.0 -0822.3 | 3710 9.4 140201.2 -0854.9  | 3800 9.5 142736.0 -0859.7 |
| 3531 10. 131128.7 -0850.5 | 3621 9.0 133520.6 -0853.2 | 3711 9.7 140211.3 -0817.2  | 3801 8.8 142737.1 -0816.5 |
| 3532 10. 131130.6 -0848.1 | 3622 9.5 133529.4 -0808.1 | 3712 10. 140225.0 -0838.7  | 3802 9.7 142758.6 -0807.0 |
| 3533 8.8 131135.6 -0823.5 | 3623 9.0 133533.3 -0827.9 | 3713 10. 140226.0 -0826.2  | 3803 9.0 142800.9 -0857.6 |
| 3534 9.8 131137.1 -0816.0 | 3624 9.0 133605.5 -0844.3 | 3714 10. 140226.9 -0807.9  | 3804 9.1 142819.8 -0849.9 |
| 3535 9.8 131151.8 -0824.7 | 3625 9.5 133635.5 -0840.9 | 3715 9.3 140239.1 -0809.1  | 3805 7.5 142833.5 -0858.3 |
| 3536 8.3 131212.7 -0820.4 | 3626 9.0 133638.0 -0859.9 | 3716 9.5 140309.6 -0852.9  | 3806 9.0 142851.2 -0820.2 |
| 3537 8.5 131247.2 -0817.5 | 3627 9.4 133656.4 -0844.6 | 3717 9.6 140327.4 -0802.4  | 3807 9.0 142855.2 -0832.8 |
| 3538 9.8 131303.2 -0839.8 | 3628 8.8 133659.3 -0836.3 | 3718 9.5 140345.6 -0846.0  | 3808 8.8 142913.4 -0818.5 |
| 3539 9.7 131402.5 -0840.2 | 3629 9.5 133700.4 -0828.6 | 3719 9.2 140358.7 -0826.4  | 3809 9.1 142933.7 -0823.0 |
| 3540 8.3 131431.7 -0817.8 | 3630 9.8 133705.3 -0802.1 | 3720 9.5 140411.5 -0858.6  | 3810 8.4 143022.8 -0802.4 |
| 3541 9.5 131439.3 -0836.0 | 3631 9.9 133718.3 -0807.7 | 3721 9.3 140415.5 -0844.5  | 3811 9.9 143038.9 -0857.7 |
| 3542 9.4 131509.4 -0804.0 | 3632 9.6 133756.2 -0813.2 | 3722 9.4 140422.5 -0804.9  | 3812 9.5 143143.1 -0818.9 |
| 3543 9.3 131510.4 -0833.3 | 3633 8.3 133758.5 -0851.9 | 3723 10. 140546.3 -0818.5  | 3813 9.0 143320.9 -0852.6 |
| 3544 8.3 131549.7 -0838.5 | 3634 9.7 133816.4 -0821.9 | 3724 8.6 140548.0 -0818.7  | 3814 9.5 143327.4 -0859.7 |
| 3545 9.5 131553.1 -0818.3 | 3635 9.5 133836.7 -0820.1 | 3725 8.9 140557.1 -0827.4  | 3815 9.5 143340.5 -0810.0 |
| 3546 9.8 131627.2 -0840.5 | 3636 9.1 133838.6 -0814.8 | 3726 9.5 140605.6 -0837.8  | 3816 9.0 143358.7 -0833.1 |
| 3547 9.8 131627.6 -0808.1 | 3637 9.5 133906.7 -0821.1 | 3727 9.5 140608.6 -0827.4  | 3817 9.8 143504.2 -0819.3 |
| 3548 9.8 131633.4 -0800.2 | 3638 9.6 133917.3 -0804.0 | 3728 9.6 140638.0 -0844.8  | 3818 9.4 143507.8 -0838.3 |
| 3549 10. 131657.2 -0818.0 | 3639 6.3 133933.9 -0859.0 | 3729 9.0 140652.8 -0855.2  | 3819 9.8 143514.4 -0852.4 |
| 3550 7.2 131739.2 -0801.5 | 3640 9.5 133942.7 -0805.0 | 3730 10. 140654.9 -0857.6  | 3820 8.5 143525.4 -0843.2 |
| 3551 9.8 131741.6 -0803.7 | 3641 8.9 134020.9 -0803.9 | 3731 10. 140655.0 -0844.7  | 3821 9.0 143538.2 -0830.5 |
| 3552 10. 131741.8 -0859.9 | 3642 8.9 134108.7 -0850.6 | 3732 9.0 140813.1 -0809.0  | 3822 9.5 143550.5 -0809.6 |
| 3553 9.7 131749.9 -0858.1 | 3643 9.3 134118.8 -0826.2 | 3733 8.5 140816.3 -0842.1  | 3823 9.1 143623.9 -0803.0 |
| 3554 9.5 131815.9 -0847.2 | 3644 9.0 134157.7 -0828.2 | 3734 10. 140825.8 -0820.6  | 3824 9.2 143627.7 -0837.2 |
| 3555 9.5 131826.2 -0820.8 | 3645 9.2 134221.1 -0822.7 | 3735 9.4 140827.9 -0825.0  | 3825 7.8 143636.3 -0851.9 |



-08 3826 14h37m

3826 9.0 143715.2 -0831.1  
3827 8.8 143721.6 -0818.7  
3828 9.5 143724.6 -0823.8  
3829 8.3 143735.1 -0835.9  
3830 9.4 143822.0 -0812.0  
3831 9.8 143858.8 -0856.0  
3832 9.5 143909.0 -0827.7  
3833 9.0 143929.6 -0827.4  
3834 9.4 144012.9 -0802.3  
3835 9.8 144044.0 -0849.5

3836 8.4 144047.6 -0822.8  
3837 10.1 144118.0 -0841.5  
3838 9.3 144132.2 -0832.8  
3839 9.3 144137.6 -0823.8  
3840 9.6 144147.8 -0802.3  
3841 7.2 144201.4 -0835.9  
3842 9.9 144203.7 -0801.3  
3843 9.0 144218.7 -0816.9  
3844 9.4 144221.6 -0825.4  
3845 9.0 144223.8 -0849.9

3846 8.7 144306.6 -0818.8  
3847 8.7 144330.5 -0822.7  
3848 9.6 144336.0 -0824.0  
3849 9.4 144452.9 -0827.1  
3850 9.5 144459.9 -0824.2  
3851 8.0 144508.7 -0805.7  
3852 9.8 144540.1 -0857.1  
3853 9.6 144544.5 -0816.9  
3854 8.6 144601.0 -0833.7  
3855 7.3 144605.5 -0829.0

3856 9.4 144616.2 -0842.6  
3857 9.7 144655.1 -0852.6  
3858 9.0 144723.5 -0829.7  
3859 9.5 144724.9 -0807.7  
3860 8.0 144738.5 -0853.0  
3861 9.1 144801.9 -0827.1  
3862 9.3 144832.6 -0804.7  
3863 8.3 144848.0 -0820.7  
3864 9.5 144918.5 -0835.6  
3865 9.5 144948.0 -0854.5

3866 9.8 144951.2 -0825.6  
3867 10.1 145003.4 -0859.6  
3868 9.7 145004.2 -0858.1  
3869 10.1 145010.5 -0817.4  
3870 9.7 145014.3 -0817.0  
3871 9.0 145026.9 -0805.8  
3872 9.4 145032.9 -0806.6  
3873 9.5 145046.0 -0856.8  
3874 9.4 145047.5 -0851.2  
3875 7.3 145049.6 -0807.9

3876 9.7 145049.8 -0815.1  
3877 9.2 145054.9 -0808.8  
3878 9.5 145101.9 -0810.4  
3879 8.7 145102.1 -0827.8  
3880 9.6 145103.7 -0807.6  
3881 9.1 145108.9 -0828.6  
3882 8.8 145149.6 -0825.6  
3883 9.7 145153.6 -0819.5  
3884 8.3 145236.9 -0833.3  
3885 9.6 145246.0 -0847.8

3886 9.4 145246.8 -0825.0  
3887 9.6 145311.3 -0809.4  
3888 10.1 145315.2 -0848.9  
3889 10.1 145320.7 -0846.6  
3890 9.2 145334.0 -0809.1  
3891 10.1 145334.6 -0826.6  
3892 9.4 145354.7 -0826.8  
3893 9.3 145423.5 -0820.6  
3894 9.2 145430.0 -0824.2  
3895 9.2 145459.4 -0833.3

3896 9.6 145509.8 -0813.9  
3897 8.5 145602.0 -0843.9  
3898 9.2 145612.8 -0851.0  
3899 9.8 145630.9 -0835.1  
3900 9.0 145640.7 -0826.2  
3901 10.1 145706.0 -0814.7  
3902 9.4 145753.1 -0859.1  
3903 9.3 145755.0 -0833.1  
3904 9.4 145812.6 -0805.7  
3905 8.3 145817.1 -0858.2

3906 8.5 145913.4 -0812.5  
3907 9.4 145919.5 -0809.6  
3908 8.2 145922.9 -0821.9  
3909 9.3 150045.9 -0806.5  
3910 9.2 150047.9 -0807.3  
3911 9.4 150055.6 -0856.5  
3912 9.8 150104.8 -0803.3  
3913 9.0 150147.3 -0829.0  
3914 9.5 150210.9 -0838.4  
3915 9.9 150222.7 -0854.8

3916 9.7 150237.5 -0805.5  
3917 9.8 150321.7 -0847.2  
3918 7.8 150404.9 -0817.2  
3919 9.6 150438.9 -0842.9  
3920 9.5 150458.4 -0817.2  
3921 10.1 150548.8 -0823.1  
3922 9.0 150558.9 -0804.1  
3923 7.4 150608.5 -0856.6  
3924 8.8 150616.9 -0813.3  
3925 9.1 150620.5 -0801.0

3926 9.7 150633.3 -0834.8  
3927 8.9 150634.1 -0818.0  
3928 9.2 150645.3 -0810.2  
3929 9.8 150702.8 -0832.7  
3930 9.8 150704.6 -0817.7  
3931 9.8 150742.8 -0826.5  
3932 9.8 150759.5 -0856.5  
3933 9.5 150815.8 -0803.8  
3934 7.8 150848.8 -0840.1  
3935 2.0 150912.4 -0850.5

3936 9.9 150923.3 -0823.8  
3937 8.7 150930.1 -0805.3  
3938 9.4 150952.1 -0842.2  
3939 9.8 150955.8 -0807.0  
3940 9.8 151003.3 -0814.8  
3941 10.1 151043.1 -0843.1  
3942 9.8 151043.3 -0807.1  
3943 10.1 151106.2 -0840.4  
3944 9.9 151118.1 -0844.5  
3945 9.0 151119.4 -0850.9

3946 9.1 151128.5 -0859.5  
3947 7.0 151133.5 -0836.4  
3948 9.8 151154.2 -0824.8  
3949 7.8 151211.8 -0807.2  
3950 9.1 151212.9 -0806.3  
3951 9.4 151249.3 -0849.7  
3952 9.8 151254.0 -0857.9  
3953 8.0 151328.5 -0816.8  
3954 9.2 151328.7 -0809.5  
3955 9.6 151337.6 -0846.3

3956 8.3 151352.8 -0807.9  
3957 9.3 151359.4 -0844.2  
3958 9.1 151403.0 -0849.0  
3959 9.8 151407.6 -0832.5  
3960 9.5 151436.7 -0839.9  
3961 9.6 151454.2 -0826.6  
3962 8.8 151505.2 -0836.0  
3963 9.1 151513.3 -0820.7  
3964 10.1 151553.2 -0816.5  
3965 9.2 151620.1 -0843.0

3966 9.4 151653.8 -0805.7  
3967 10.1 151707.6 -0803.5  
3968 8.9 151712.2 -0851.5  
3969 10.1 151758.3 -0848.9  
3970 9.4 151829.3 -0849.1  
3971 9.5 151831.7 -0835.6  
3972 9.0 151906.6 -0833.6  
3973 9.4 151909.4 -0849.8  
3974 9.1 151913.9 -0805.4  
3975 9.5 151927.3 -0840.6

3976 9.8 151935.1 -0841.6  
3977 9.0 151940.3 -0858.7  
3978 9.8 151950.7 -0809.4  
3979 7.5 151951.1 -0825.9  
3980 9.8 152001.5 -0803.8  
3981 7.0 152019.9 -0849.5  
3982 9.4 152021.6 -0801.2  
3983 8.0 152022.2 -0850.2  
3984 10.1 152033.1 -0851.5  
3985 8.3 152038.6 -0839.1

3986 7.8 152050.4 -0814.5  
3987 9.1 152132.2 -0801.5  
3988 9.5 152139.6 -0824.5  
3989 9.8 152155.1 -0824.1  
3990 9.4 152203.7 -0808.3  
3991 9.9 152209.3 -0845.0  
3992 9.2 152255.4 -0826.2  
3993 9.5 152255.9 -0848.4  
3994 9.8 152258.2 -0819.0  
3995 9.5 152309.7 -0820.7

3996 9.9 152334.3 -0844.1  
3997 9.9 152340.6 -0828.0  
3998 8.9 152418.6 -0831.9  
3999 9.4 152434.8 -0802.3  
4000 9.8 152445.3 -0854.7  
4001 10.1 152451.3 -0857.4  
4002 9.4 152510.1 -0808.9  
4003 9.2 152512.3 -0839.8  
4004 9.5 152515.0 -0830.7  
4005 9.4 152515.8 -0833.0

4006 9.8 152532.6 -0807.8  
4007 8.0 152555.3 -0856.2  
4008 9.1 152600.5 -0800.3  
4009 9.2 152632.5 -0828.3  
4010 5.5 152636.3 -0841.3  
4011 10.1 152647.8 -0855.0  
4012 9.4 152703.0 -0837.8  
4013 9.1 152703.8 -0852.3  
4014 9.6 152730.1 -0802.9  
4015 10.1 152744.6 -0811.3

4016 9.8 152745.4 -0800.0  
4017 9.5 152758.3 -0804.2  
4018 8.7 152801.0 -0828.8  
4019 10.1 152803.9 -0845.0  
4020 10.1 152830.7 -0840.5  
4021 9.4 152835.0 -0819.2  
4022 9.4 152858.1 -0805.2  
4023 8.8 152905.0 -0804.9  
4024 9.3 152909.5 -0841.9  
4025 9.0 152934.2 -0846.2

4026 9.5 152946.5 -0844.8  
4027 8.3 152948.3 -0833.6  
4028 9.5 152950.1 -0813.7  
4029 9.8 153022.8 -0849.0  
4030 9.0 153031.6 -0816.3  
4031 7.0 153050.8 -0818.8  
4032 8.0 153050.8 -0819.2  
4033 9.4 153058.5 -0831.1  
4034 9.4 153103.5 -0834.7  
4035 9.8 153117.3 -0850.9

4036 8.7 153117.9 -0805.5  
4037 9.5 153133.8 -0848.1  
4038 9.5 153141.7 -0813.7  
4039 8.5 153144.0 -0830.0  
4040 9.8 153155.7 -0857.2  
4041 9.7 153156.8 -0811.9  
4042 9.7 153156.8 -0810.1  
4043 9.5 153217.0 -0820.8  
4044 9.0 153220.0 -0827.5  
4045 9.8 153233.2 -0850.8

4046 7.8 153246.4 -0837.6  
4047 9.5 153253.2 -0842.2  
4048 9.6 153254.0 -0810.7  
4049 8.2 153305.9 -0830.9  
4050 8.2 153311.5 -0815.9  
4051 9.3 153358.5 -0806.4  
4052 8.3 153359.2 -0810.2  
4053 9.5 153411.3 -0843.6  
4054 9.4 153415.8 -0843.8  
4055 9.8 153424.5 -0827.8

4056 9.8 153453.7 -0808.4  
4057 10.1 153503.8 -0838.2  
4058 8.7 153520.5 -0840.1  
4059 9.5 153528.4 -0805.6  
4060 7.5 153554.4 -0851.1  
4061 9.5 153603.0 -0819.8  
4062 9.5 153610.2 -0859.9  
4063 9.8 153639.2 -0827.0  
4064 10.1 153639.5 -0801.7  
4065 8.5 153640.1 -0846.0

4066 9.7 153708.2 -0812.1  
4067 9.7 153714.3 -0847.3  
4068 9.6 153755.8 -0835.6  
4069 9.1 153802.8 -0834.4  
4070 9.1 153804.2 -0854.0  
4071 9.9 153827.2 -0843.3  
4072 8.6 153838.6 -0820.0  
4073 8.9 153843.7 -0813.3  
4074 10.1 153846.5 -0857.5  
4075 9.0 153903.3 -0859.0

4076 9.9 153903.9 -0805.5  
4077 10.1 153915.0 -0850.7  
4078 9.5 153921.0 -0802.5  
4079 8.9 153930.1 -0827.9  
4080 9.8 154005.1 -0834.1  
4081 10.1 154025.7 -0827.8  
4082 9.5 154036.2 -0813.1  
4083 9.5 154104.2 -0846.2  
4084 8.5 154115.1 -0848.1  
4085 9.4 154117.2 -0806.0

4086 9.5 154134.1 -0810.6  
4087 9.3 154157.5 -0835.5  
4088 8.9 154203.1 -0801.5  
4089 8.5 154215.8 -0859.1  
4090 9.3 154237.1 -0838.4  
4091 10.1 154252.4 -0851.3  
4092 8.9 154304.6 -0835.1  
4093 9.9 154322.6 -0815.2  
4094 8.4 154326.4 -0854.1  
4095 9.8 154426.9 -0855.0

4096 9.5 154438.3 -0857.7  
4097 9.5 154513.6 -0804.9  
4098 9.8 154514.2 -0815.0  
4099 9.8 154527.1 -0806.6  
4100 9.0 154531.7 -0809.9  
4101 9.5 154613.2 -0858.9  
4102 9.6 154624.7 -0807.5  
4103 9.8 154625.7 -0825.8  
4104 8.3 154631.6 -0808.8  
4105 9.0 154741.1 -0826.2

4106 7.0 154752.6 -0812.6  
4107 10.1 154804.3 -0842.2  
4108 9.8 154831.5 -0845.0  
4109 9.3 154846.2 -0828.1  
4110 9.3 154916.0 -0830.5  
4111 8.8 154923.3 -0852.2  
4112 9.8 154925.5 -0829.1  
4113 9.4 154927.1 -0808.6  
4114 9.0 154930.0 -0806.7  
4115 9.5 155002.0 -0815.0

4116 9.4 155012.7 -0800.8  
4117 8.8 155014.1 -0816.6  
4118 9.6 155028.5 -0818.8  
4119 8.4 155042.0 -0847.7  
4120 10.1 155058.5 -0847.7  
4121 8.9 155104.7 -0804.0  
4122 9.5 155110.6 -0817.0  
4123 8.5 155125.5 -0820.2  
4124 9.0 155126.3 -0817.0  
4125 10.1 155200.4 -0856.8

4126 9.8 155213.5 -0818.5  
4127 9.8 155223.6 -0805.2  
4128 9.5 155316.9 -0849.8  
4129 9.5 155322.4 -0852.1  
4130 9.8 155325.5 -0802.1  
4131 9.8 155327.6 -0810.4  
4132 9.6 155338.9 -0857.9  
4133 9.2 155352.0 -0816.2  
4134 9.2 155404.7 -0801.7  
4135 9.5 155442.5 -0809.7

4136 8.0 155452.7 -0805.5  
4137 9.5 155459.6 -0815.8  
4138 9.0 155517.5 -0802.7  
4139 8.9 155518.5 -0822.2  
4140 8.0 155527.1 -0804.3  
4141 9.7 155606.4 -0800.0  
4142 9.5 155631.0 -0827.5  
4143 9.0 155632.1 -0816.5  
4144 8.5 155637.3 -0827.2  
4145 9.2 155646.1 -0852.2

4146 10.1 155657.5 -0816.6  
4147 9.3 155658.6 -0841.2  
4148 9.6 155702.7 -0847.8  
4149 10.1 155708.5 -0822.3  
4150 9.1 155709.8 -0823.2  
4151 9.7 155729.0 -0856.2  
4152 9.8 155740.8 -0849.8  
4153 8.0 155810.0 -0822.2  
4154 9.8 155823.7 -0838.0  
4155 9.5 155845.4 -0823.3

4156 9.7 155836.9 -0800.5  
4157 9.0 155838.0 -0807.5  
4158 9.7 155841.3 -0849.9  
4159 9.4 155852.9 -0842.9  
4160 9.3 155904.0 -0809.6  
4161 9.8 155937.4 -0827.3  
4162 9.3 155946.7 -0856.3  
4163 9.3 155954.2 -0812.8  
4164 9.6 160047.7 -0847.5  
4165 8.5 160050.4 -0822.3

4166 8.9 160058.9 -0812.1  
4167 9.4 160115.7 -0828.9  
4168 9.2 160127.9 -0834.7  
4169 9.5 160150.0 -0815.3  
4170 8.7 160156.5 -0849.0  
4171 9.7 160225.0 -0839.1  
4172 10.1 160225.2 -0817.3  
4173 9.8 160301.9 -0823.8  
4174 9.8 160341.0 -0853.1  
4175 9.5 160342.4 -0811.5

4176 9.1 160344.5 -0807.3  
4177 9.6 160349.7 -0831.2  
4178 9.7 160409.5 -0845.1  
4179 9.5 160412.9 -0835.2  
4180 5.0 160416.0 -0810.1  
4181 9.5 160437.4 -0825.4  
4182 9.3 160438.4 -0823.2  
4183 9.9 160444.9 -0848.7  
4184 9.8 160447.4 -0851.9  
4185 9.0 160503.7 -0813.6



-08 4186 16h05m

4186 9.4 160514.3 -0803.0  
4187 9.5 160545.0 -0816.5  
4188 8.0 160551.6 -0849.5  
4189 9.0 160610.9 -0825.0  
4190 10. 160629.1 -0844.8  
4191 9.5 160719.3 -0803.3  
4192 9.5 160720.3 -0805.3  
4193 9.1 160729.8 -0857.8  
4194 9.7 160746.3 -0844.5  
4195 9.7 160812.6 -0818.8  
  
4196 9.5 160832.6 -0827.2  
4197 8.7 160855.3 -0803.8  
4198 9.0 160907.7 -0859.8  
4199 9.6 160924.1 -0824.9  
4200 9.7 160929.7 -0859.2  
4201 9.5 161006.0 -0825.0  
4202 9.2 161008.1 -0816.3  
4203 9.8 161034.4 -0843.3  
4204 9.8 161040.1 -0821.3  
4205 8.2 161100.1 -0843.0  
  
4206 9.5 161111.1 -0806.2  
4207 9.3 161153.7 -0813.4  
4208 9.5 161155.8 -0851.2  
4209 9.0 161212.9 -0839.5  
4210 9.6 161215.6 -0814.4  
4211 9.5 161236.0 -0830.5  
4212 9.8 161306.6 -0843.6  
4213 9.2 161326.1 -0839.6  
4214 10. 161328.1 -0819.0  
4215 9.6 161358.1 -0805.2  
  
4216 7.0 161425.5 -0823.4  
4217 9.7 161446.4 -0805.8  
4218 9.7 161447.8 -0802.0  
4219 9.5 161501.8 -0844.5  
4220 9.2 161514.2 -0806.6  
4221 9.6 161520.4 -0844.1  
4222 8.0 161531.5 -0838.5  
4223 9.2 161544.1 -0821.6  
4224 9.6 161546.0 -0825.0  
4225 9.6 161602.7 -0817.3  
  
4226 9.7 161614.9 -0850.4  
4227 8.6 161615.3 -0845.6  
4228 9.8 161631.4 -0840.5  
4229 9.8 161637.0 -0849.2  
4230 9.8 161758.6 -0817.3  
4231 9.9 161759.7 -0811.7  
4232 9.0 161820.2 -0854.3  
4233 9.6 161847.0 -0833.6  
4234 8.0 161848.5 -0823.5  
4235 9.1 161902.6 -0834.4  
  
4236 9.9 161902.7 -0831.0  
4237 9.8 161904.0 -0826.2  
4238 10. 161911.9 -0835.3  
4239 9.6 161916.1 -0841.0  
4240 9.5 161932.2 -0808.5  
4241 9.0 161937.6 -0814.5  
4242 9.9 161951.1 -0840.3  
4243 5.2 161958.2 -0802.0  
4244 9.5 162027.9 -0838.4  
4245 9.3 162033.9 -0826.1  
  
4246 9.1 162042.0 -0821.0  
4247 10. 162054.0 -0801.7  
4248 9.9 162103.8 -0816.9  
4249 9.3 162153.1 -0808.9  
4250 8.5 162247.1 -0808.9  
4251 8.5 162256.3 -0847.0  
4252 8.8 162257.5 -0810.7  
4253 9.8 162342.6 -0846.1  
4254 9.7 162420.0 -0803.9  
4255 9.8 162436.4 -0856.1  
  
4256 9.6 162452.1 -0810.8  
4257 8.5 162524.9 -0828.2  
4258 9.2 162524.9 -0801.6  
4259 9.0 162528.0 -0820.6  
4260 9.5 162610.7 -0856.8  
4261 10. 162631.3 -0843.0  
4262 9.6 162647.4 -0843.9  
4263 9.9 162706.6 -0812.6  
4264 9.3 162727.4 -0828.3  
4265 8.5 162806.9 -0826.9  
  
4266 9.1 162813.3 -0835.9  
4267 9.4 162816.7 -0807.2  
4268 9.6 162824.6 -0847.9  
4269 9.8 162838.9 -0837.4  
4270 6.8 162838.9 -0832.9  
4271 9.5 162844.2 -0848.8  
4272 9.4 162848.1 -0828.3  
4273 9.6 162850.7 -0840.7  
4274 8.5 162902.8 -0835.4  
4275 9.6 162907.0 -0843.5

4276 9.4 162925.6 -0804.0  
4277 9.5 162928.0 -0821.6  
4278 9.1 162956.9 -0826.2  
4279 9.1 163022.7 -0853.2  
4280 9.7 163039.3 -0802.3  
4281 9.8 163053.9 -0806.7  
4282 6.8 163055.0 -0819.3  
4283 9.0 163108.3 -0830.1  
4284 9.8 163130.9 -0814.5  
4285 9.4 163204.1 -0808.5  
  
4286 10. 163223.8 -0804.0  
4287 7.0 163304.9 -0801.4  
4288 9.6 163317.5 -0842.2  
4289 9.5 163319.9 -0829.1  
4290 9.9 163325.4 -0807.0  
4291 10. 163411.6 -0837.6  
4292 9.3 163420.2 -0830.2  
4293 10. 163433.6 -0838.8  
4294 8.0 163507.9 -0840.6  
4295 9.8 163512.2 -0821.9  
  
4296 9.0 163522.2 -0829.2  
4297 9.3 163538.7 -0812.3  
4298 9.6 163553.8 -0802.4  
4299 9.5 163626.3 -0801.1  
4300 9.5 163652.7 -0820.6  
4301 9.3 163701.6 -0840.2  
4302 9.5 163702.5 -0823.7  
4303 9.9 163741.7 -0834.4  
4304 9.3 163748.8 -0843.1  
4305 8.5 163757.2 -0811.8  
  
4306 9.6 163813.7 -0818.8  
4307 9.0 163828.4 -0846.0  
4308 9.5 163839.9 -0859.2  
4309 9.5 163846.7 -0836.6  
4310 9.8 163855.7 -0838.4  
4311 9.5 163856.5 -0800.2  
4312 9.6 163914.2 -0811.9  
4313 9.7 163918.8 -0845.5  
4314 9.5 163949.6 -0836.0  
4315 9.0 163955.7 -0854.9  
  
4316 9.5 164020.1 -0858.7  
4317 9.8 164028.7 -0840.5  
4318 9.5 164031.2 -0815.3  
4319 9.7 164041.1 -0856.4  
4320 7.4 164105.8 -0840.2  
4321 9.5 164114.2 -0814.1  
4322 9.6 164115.4 -0840.9  
4323 8.8 164124.1 -0848.4  
4324 9.5 164137.2 -0835.5  
4325 9.4 164156.7 -0822.7  
  
4326 9.8 164206.7 -0823.2  
4327 9.6 164220.3 -0817.9  
4328 8.5 164239.2 -0828.6  
4329 9.1 164251.7 -0828.9  
4330 9.2 164301.6 -0843.0  
4331 8.3 164304.2 -0821.0  
4332 9.3 164316.1 -0844.6  
4333 9.3 164338.2 -0811.5  
4334 9.8 164404.4 -0814.1  
4335 9.3 164406.1 -0829.3  
  
4336 9.8 164406.8 -0845.4  
4337 7.8 164406.9 -0836.7  
4338 9.4 164412.7 -0811.0  
4339 9.3 164423.2 -0804.7  
4340 9.5 164427.6 -0827.7  
4341 10. 164513.1 -0832.2  
4342 9.0 164515.3 -0808.9  
4343 8.6 164522.0 -0804.9  
4344 9.4 164539.6 -0836.0  
4345 9.7 164543.5 -0829.9  
  
4346 8.2 164553.5 -0843.8  
4347 8.5 164616.9 -0802.6  
4348 8.0 164718.7 -0807.9  
4349 9.8 164720.3 -0804.1  
4350 9.4 164724.7 -0802.2  
4351 9.7 164732.3 -0840.5  
4352 8.8 164743.6 -0804.3  
4353 9.1 164745.2 -0856.8  
4354 9.0 164747.4 -0842.5  
4355 9.4 164818.2 -0844.6  
  
4356 8.0 164820.2 -0850.4  
4357 9.0 164823.3 -0818.5  
4358 10. 164838.0 -0820.9  
4359 9.4 164853.8 -0847.9  
4360 9.0 164923.9 -0809.1  
4361 9.5 164926.4 -0824.1  
4362 9.0 164938.8 -0848.8  
4363 9.4 164947.1 -0834.1  
4364 9.7 164959.5 -0858.6  
4365 9.0 165004.3 -0835.2

4366 8.5 165101.4 -0823.5  
4367 9.5 165114.6 -0853.8  
4368 10. 165128.0 -0833.6  
4369 9.8 165234.4 -0845.5  
4370 9.8 165241.4 -0821.5  
4371 9.8 165331.3 -0827.7  
4372 9.3 165340.9 -0847.4  
4373 9.3 165345.4 -0827.7  
4374 8.4 165402.1 -0843.7  
4375 9.8 165429.9 -0821.4  
  
4376 9.3 165434.9 -0818.0  
4377 9.4 165437.9 -0823.8  
4378 9.5 165441.5 -0831.0  
4379 8.7 165511.5 -0803.0  
4380 8.5 165519.1 -0848.4  
4381 9.8 165540.7 -0841.6  
4382 9.5 165618.2 -0815.9  
4383 9.5 165659.9 -0818.6  
4384 9.7 165706.8 -0847.6  
4385 9.1 165820.8 -0843.1  
  
4386 8.8 165837.7 -0820.1  
4387 9.0 165919.2 -0823.7  
4388 9.5 165933.8 -0801.2  
4389 9.2 170001.5 -0835.0  
4390 9.4 170015.6 -0808.8  
4391 9.0 170042.5 -0830.5  
4392 7.8 170206.8 -0819.7  
4393 9.8 170251.4 -0824.5  
4394 8.2 170340.5 -0837.6  
4395 9.0 170352.6 -0815.9  
  
4396 9.5 170430.4 -0805.4  
4397 9.8 170433.6 -0848.3  
4398 9.7 170445.6 -0858.4  
4399 9.0 170610.0 -0842.9  
4400 7.8 170616.1 -0813.7  
4401 9.5 170646.9 -0844.9  
4402 10. 170707.1 -0824.8  
4403 9.3 170719.5 -0826.9  
4404 9.6 170739.9 -0847.2  
4405 9.3 170740.6 -0812.9  
  
4406 8.4 170755.5 -0830.0  
4407 9.4 170801.5 -0823.6  
4408 9.8 170823.6 -0813.8  
4409 9.4 170830.6 -0849.2  
4410 1.3 170842.0 -0819.0  
4411 1.5 170851.0 -0841.5  
4412 1.5 170945.5 -0836.1  
4413 1.4 170950.0 -0830.5  
4414 9.5 170955.7 -0842.7  
4415 8.7 171001.1 -0810.5  
  
4416 9.8 171003.0 -0823.2  
4417 8.7 171014.6 -0808.9  
4418 9.2 171027.4 -0849.1  
4419 9.8 171027.5 -0858.7  
4420 9.4 171040.0 -0808.3  
4421 9.1 171106.6 -0812.8  
4422 9.1 171108.8 -0859.2  
4423 9.5 171118.7 -0857.6  
4424 9.5 171134.4 -0836.4  
4425 9.5 171226.5 -0820.5  
  
4426 9.4 171237.7 -0858.5  
4427 9.0 171245.9 -0845.4  
4428 8.9 171248.6 -0815.0  
4429 8.5 171253.3 -0853.1  
4430 9.4 171341.1 -0810.2  
4431 9.5 171358.7 -0856.4  
4432 9.3 171405.6 -0821.4  
4433 9.8 171453.1 -0800.9  
4434 9.6 171539.5 -0820.3  
4435 9.6 171655.9 -0842.9  
  
4436 8.4 171657.1 -0802.3  
4437 6.8 171731.4 -0841.7  
4438 7.5 171757.0 -0832.1  
4439 9.8 171803.1 -0846.0  
4440 9.0 171846.5 -0833.7  
4441 9.7 171854.0 -0820.6  
4442 9.0 171943.0 -0825.0  
4443 10. 172007.5 -0851.5  
4444 6.2 172010.4 -0804.5  
4445 8.8 172020.9 -0832.1  
  
4446 9.5 172153.3 -0811.8  
4447 8.3 172206.5 -0818.1  
4448 8.4 172226.7 -0845.3  
4449 9.4 172241.7 -0839.9  
4450 8.9 172301.5 -0810.5  
4451 9.5 172324.9 -0832.6  
4452 9.4 172411.0 -0808.6  
4453 8.3 172424.0 -0821.6  
4454 9.4 172437.5 -0818.4  
4455 9.5 172507.6 -0856.1

4456 9.1 172509.9 -0838.4  
4457 9.5 172610.3 -0812.5  
4458 9.5 172614.4 -0831.0  
4459 9.0 172645.1 -0852.2  
4460 9.5 172702.3 -0840.8  
4461 9.3 172717.2 -0801.7  
4462 9.4 172718.3 -0842.8  
4463 9.3 172744.6 -0840.4  
4464 9.1 172752.5 -0811.7  
4465 9.1 172829.5 -0857.8  
  
4466 9.1 172901.5 -0856.1  
4467 9.3 172908.9 -0835.9  
4468 8.8 172911.5 -0818.1  
4469 8.7 172923.8 -0837.6  
4470 9.7 172931.4 -0853.7  
4471 9.2 172954.5 -0819.9  
4472 4.8 172957.5 -0801.4  
4473 7.4 173005.1 -0856.5  
4474 8.8 173011.9 -0850.4  
4475 8.4 173016.5 -0802.5  
  
4476 8.9 173019.7 -0800.8  
4477 9.4 173026.9 -0832.1  
4478 9.0 173032.5 -0811.9  
4479 8.5 173041.6 -0845.1  
4480 9.2 173113.5 -0840.4  
4481 9.7 173131.8 -0851.6  
4482 9.0 173206.1 -0835.9  
4483 9.3 173215.7 -0826.3  
4484 8.4 173227.0 -0800.5  
4485 9.5 173305.2 -0842.9  
  
4486 9.5 173407.6 -0844.4  
4487 9.8 173432.1 -0828.1  
4488 8.8 173439.2 -0840.5  
4489 8.6 173527.0 -0856.2  
4490 9.3 173603.8 -0817.0  
4491 9.6 173610.7 -0846.2  
4492 9.4 173628.1 -0814.7  
4493 8.9 173641.8 -0842.6  
4494 10. 173734.4 -0815.0  
4495 9.4 173823.6 -0809.1  
  
4496 9.4 173836.5 -0830.6  
4497 9.3 173859.0 -0830.0  
4498 8.5 173916.1 -0801.0  
4499 8.8 173917.6 -0830.3  
4500 9.5 173926.7 -0845.6  
4501 9.2 173930.8 -0842.9  
4502 9.5 173956.8 -0848.3  
4503 9.0 174021.2 -0834.8  
4504 9.5 174030.5 -0823.1  
4505 9.2 174112.6 -0824.1  
  
4506 8.8 174132.9 -0846.2  
4507 10. 174150.1 -0858.3  
4508 9.2 174157.3 -0846.7  
4509 9.0 174203.4 -0857.8  
4510 9.4 174228.0 -0800.1  
4511 9.8 174239.2 -0855.6  
4512 10. 174305.7 -0824.9  
4513 9.9 174315.5 -0817.3  
4514 9.3 174321.0 -0830.3  
4515 9.1 174409.8 -0830.0  
  
4516 9.8 174441.4 -0841.8  
4517 8.3 174510.8 -0849.4  
4518 9.6 174523.6 -0841.0  
4519 9.8 174527.4 -0855.6  
4520 7.5 174539.3 -0840.4  
4521 9.0 174542.6 -0843.7  
4522 9.7 174557.4 -0852.3  
4523 9.9 174617.8 -0831.4  
4524 9.5 174629.2 -0819.6  
4525 9.3 174737.1 -0859.4  
  
4526 10. 174740.6 -0854.4  
4527 9.2 174744.5 -0859.9  
4528 9.1 174829.3 -0843.3  
4529 8.2 174846.7 -0859.2  
4530 9.4 174905.6 -0834.0  
4531 7.7 174917.0 -0802.5  
4532 9.4 175014.1 -0850.6  
4533 9.4 175015.2 -0847.8  
4534 7.5 175044.2 -0829.9  
4535 8.1 175053.8 -0842.8  
  
4536 8.7 175058.7 -0855.2  
4537 9.5 175112.3 -0847.5  
4538 8.8 175130.5 -0819.0  
4539 9.3 175139.6 -0819.1  
4540 9.4 175214.5 -0816.5  
4541 9.8 175245.3 -0857.3  
4542 8.9 175301.0 -0828.1  
4543 9.2 175304.3 -0841.8  
4544 9.6 175325.7 -0843.7  
4545 9.5 175336.3 -0833.4

-08 4545 17h53m



-08 4546 17h53m

4546 9.8 175339.8 -0856.6  
4547 8.8 175444.6 -0845.2  
4548 7.3 175510.3 -0820.2  
4549 4.8 175511.4 -0810.3  
4550 8.3 175523.9 -0814.3  
4551 8.9 175607.5 -0851.1  
4552 10.1 175621.7 -0845.7  
4553 9.5 175626.8 -0840.6  
4554 9.0 175702.6 -0844.7  
4555 9.4 175759.2 -0854.1

4556 7.2 175807.7 -0807.4  
4557 9.1 175812.7 -0804.0  
4558 6.1 175813.6 -0819.8  
4559 9.6 175836.5 -0810.7  
4560 9.8 175837.1 -0803.1  
4561 9.5 175903.4 -0809.0  
4562 9.0 180004.1 -0859.7  
4563 8.9 180116.8 -0818.2  
4564 9.0 180131.5 -0819.1  
4565 9.1 180139.7 -0809.5

4566 7.9 180146.3 -0847.7  
4567 9.8 180148.6 -0826.5  
4568 9.1 180200.5 -0833.3  
4569 9.3 180227.9 -0844.9  
4570 9.6 180245.0 -0854.5  
4571 7.0 180406.3 -0845.4  
4572 9.5 180541.2 -0807.7  
4573 9.0 180623.8 -0843.9  
4574 8.5 180629.6 -0824.7  
4575 9.5 180711.0 -0850.1

4576 9.6 180719.7 -0851.5  
4577 9.4 180721.9 -0853.0  
4578 8.0 180736.5 -0831.9  
4579 9.5 180744.7 -0850.7  
4580 8.8 180819.5 -0823.1  
4581 9.5 180829.8 -0803.6  
4582 9.4 180858.2 -0843.0  
4583 7.2 181013.0 -0841.1  
4584 9.2 181029.1 -0802.1  
4585 6.5 181212.3 -0802.1

4586 8.6 181213.5 -0836.2  
4587 9.5 181241.3 -0856.1  
4588 9.0 181255.2 -0856.8  
4589 9.2 181256.7 -0828.0  
4590 9.7 181256.8 -0845.2  
4591 9.5 181318.8 -0821.7  
4592 9.4 181319.5 -0847.2  
4593 9.3 181333.6 -0820.5  
4594 9.5 181410.2 -0859.9  
4595 9.8 181421.2 -0834.6

4596 9.8 181428.7 -0847.1  
4597 9.2 181527.0 -0814.9  
4598 9.8 181631.1 -0811.4  
4599 7.2 181636.5 -0815.0  
4600 9.4 181647.3 -0839.8  
4601 9.4 181702.1 -0824.2  
4602 9.2 181702.6 -0823.7  
4603 9.5 181739.7 -0855.2  
4604 9.7 181807.4 -0843.8  
4605 7.8 181814.0 -0813.6

4606 7.5 181835.0 -0815.7  
4607 9.5 181841.7 -0843.8  
4608 9.0 181853.2 -0827.7  
4609 9.5 181910.6 -0804.1  
4610 9.6 181911.9 -0857.4  
4611 6.7 181916.1 -0807.0  
4612 9.4 181946.8 -0846.0  
4613 9.6 182009.3 -0819.8  
4614 9.4 182102.6 -0819.8  
4615 9.8 182107.0 -0844.3

4616 9.5 182109.0 -0820.4  
4617 8.8 182119.7 -0839.0  
4618 9.6 182122.9 -0806.7  
4619 9.9 182137.7 -0827.3  
4620 9.8 182205.5 -0813.8  
4621 9.2 182223.2 -0856.3  
4622 9.7 182235.8 -0809.8  
4623 9.3 182240.4 -0843.8  
4624 9.3 182400.7 -0831.7  
4625 9.5 182408.4 -0845.7

4626 9.0 182413.7 -0847.2  
4627 8.8 182446.9 -0805.8  
4628 10.1 182509.5 -0851.6  
4629 10.1 182510.0 -0844.4  
4630 9.6 182516.1 -0838.6  
4631 7.8 182525.6 -0839.9  
4632 9.1 182551.7 -0824.6  
4633 9.0 182609.5 -0816.8  
4634 9.0 182632.5 -0812.3  
4635 9.4 182657.6 -0843.2

4636 9.4 182658.6 -0844.4  
4637 9.5 182703.9 -0802.8  
4638 4.2 182719.0 -0820.4  
4639 8.5 182736.3 -0848.2  
4640 9.2 182742.1 -0846.4  
4641 9.1 182745.4 -0823.5  
4642 9.4 182802.8 -0828.7  
4643 9.8 182806.4 -0811.5  
4644 9.6 182815.2 -0818.5  
4645 9.5 182825.8 -0859.3

4646 9.7 182829.4 -0817.3  
4647 9.5 182832.3 -0815.3  
4648 9.5 182834.0 -0833.0  
4649 10.1 182838.2 -0817.3  
4650 9.5 182840.5 -0822.4  
4651 9.1 182841.9 -0839.5  
4652 9.2 182846.8 -0817.7  
4653 9.7 182847.3 -0825.8  
4654 9.7 182851.7 -0817.0  
4655 10.1 182855.2 -0820.2

4656 9.0 182921.4 -0847.2  
4657 9.5 182936.7 -0855.8  
4658 9.0 182944.8 -0832.7  
4659 9.5 182945.3 -0827.7  
4660 9.7 182945.7 -0849.5  
4661 3.8 182953.8 -0851.9  
4662 9.8 182958.3 -0859.4  
4663 9.1 183009.2 -0829.3  
4664 9.5 183016.8 -0850.7  
4665 8.6 183031.6 -0843.8

4666 9.4 183032.5 -0831.0  
4667 9.8 183039.8 -0852.0  
4668 8.5 183122.9 -0826.8  
4669 9.4 183151.3 -0854.5  
4670 8.3 183212.3 -0820.5  
4671 9.4 183221.6 -0812.7  
4672 9.4 183240.6 -0811.6  
4673 9.3 183249.7 -0823.5  
4674 9.1 183251.9 -0806.4  
4675 7.8 183253.2 -0850.8

4676 9.0 183312.1 -0817.7  
4677 9.0 183315.8 -0827.0  
4678 9.8 183320.1 -0829.1  
4679 8.3 183336.0 -0839.3  
4680 9.1 183345.9 -0811.5  
4681 9.5 183400.1 -0844.6  
4682 9.5 183412.7 -0800.9  
4683 9.5 183502.1 -0807.2  
4684 9.5 183520.8 -0844.0  
4685 8.9 183522.1 -0858.7

4686 5.5 183537.2 -0825.1  
4687 7.5 183540.2 -0833.7  
4688 10.1 183548.3 -0856.7  
4689 9.2 183558.7 -0846.7  
4690 9.4 183627.9 -0829.3  
4691 9.5 183637.0 -0803.5  
4692 9.0 183652.1 -0816.4  
4693 9.5 183657.0 -0847.6  
4694 9.5 183732.1 -0820.9  
4695 8.5 183749.2 -0840.6

4696 9.5 183805.6 -0802.5  
4697 9.3 183806.3 -0844.2  
4698 9.6 183806.7 -0827.5  
4699 9.0 183837.1 -0834.8  
4700 9.6 183840.8 -0855.6  
4701 7.0 183843.1 -0816.1  
4702 8.9 183846.0 -0804.9  
4703 9.2 183850.3 -0812.9  
4704 9.6 183851.2 -0803.0  
4705 9.5 183909.2 -0821.4

4706 9.5 183921.9 -0859.6  
4707 9.8 183922.5 -0855.7  
4708 9.5 183945.8 -0847.2  
4709 9.4 183958.6 -0802.4  
4710 9.4 184013.1 -0810.3  
4711 9.8 184029.3 -0834.2  
4712 9.0 184041.9 -0845.6  
4713 9.4 184044.8 -0853.0  
4714 7.5 184104.9 -0836.9  
4715 9.5 184107.3 -0843.1

4716 9.4 184115.2 -0818.6  
4717 7.0 184126.0 -0827.9  
4718 9.8 184137.1 -0849.3  
4719 9.4 184146.9 -0844.6  
4720 9.5 184154.3 -0845.5  
4721 8.5 184158.5 -0821.1  
4722 10.1 184207.9 -0858.8  
4723 8.9 184209.5 -0833.1  
4724 9.5 184216.4 -0858.5  
4725 9.8 184226.1 -0841.1

4726 7.1 184227.8 -0804.1  
4727 9.8 184235.7 -0828.9  
4728 9.5 184239.6 -0848.7  
4729 8.8 184252.4 -0809.2  
4730 9.5 184301.6 -0831.1  
4731 9.2 184307.2 -0814.3  
4732 8.2 184320.1 -0805.9  
4733 7.2 184320.9 -0810.4  
4734 9.8 184323.4 -0854.7  
4735 9.4 184336.0 -0800.0

4736 9.0 184345.2 -0834.2  
4737 9.2 184408.2 -0837.4  
4738 9.8 184415.7 -0825.8  
4739 9.4 184420.5 -0804.0  
4740 8.8 184424.2 -0857.0  
4741 9.0 184428.2 -0830.5  
4742 9.4 184448.4 -0841.4  
4743 9.4 184448.6 -0817.3  
4744 9.6 184450.5 -0826.9  
4745 20.0 184510.0 -0853.1

4746 10.1 184512.3 -0845.1  
4747 9.6 184514.7 -0801.4  
4748 9.0 184526.2 -0851.0  
4749 8.9 184534.2 -0844.8  
4750 9.5 184542.1 -0830.2  
4751 9.0 184542.2 -0811.3  
4752 9.8 184550.5 -0805.8  
4753 10.1 184613.9 -0809.5  
4754 9.0 184619.2 -0809.2  
4755 9.7 184625.4 -0817.6

4756 9.0 184626.1 -0831.0  
4757 9.7 184630.9 -0820.0  
4758 9.8 184641.8 -0819.8  
4759 9.5 184653.7 -0844.0  
4760 9.5 184655.5 -0822.7  
4761 8.5 184710.3 -0859.3  
4762 9.8 184716.7 -0855.0  
4763 9.0 184720.5 -0846.5  
4764 9.5 184733.6 -0811.6  
4765 9.5 184752.1 -0820.6

4766 9.2 184752.7 -0823.3  
4767 7.2 184757.8 -0853.6  
4768 9.4 184803.7 -0815.0  
4769 9.8 184812.6 -0832.5  
4770 9.4 184813.7 -0815.5  
4771 9.1 184816.9 -0805.9  
4772 9.2 184823.4 -0840.1  
4773 9.0 184834.0 -0825.4  
4774 8.3 184847.3 -0844.5  
4775 9.5 184849.2 -0808.6

4776 7.6 184850.8 -0836.6  
4777 9.6 184903.5 -0838.4  
4778 9.0 184904.9 -0848.5  
4779 9.8 184906.6 -0836.3  
4780 9.1 184906.7 -0814.2  
4781 9.2 184925.1 -0813.2  
4782 9.1 184927.6 -0821.2  
4783 9.8 184935.8 -0845.1  
4784 9.4 184939.3 -0844.2  
4785 9.5 185011.2 -0837.0

4786 9.2 185019.6 -0843.9  
4787 9.9 185032.3 -0827.3  
4788 9.2 185042.7 -0803.4  
4789 9.0 185054.0 -0825.8  
4790 9.8 185105.0 -0857.7  
4791 9.8 185105.5 -0845.4  
4792 9.4 185106.2 -0822.1  
4793 9.4 185107.9 -0831.8  
4794 9.0 185110.7 -0825.9  
4795 8.5 185123.7 -0821.2

4796 10.1 185133.9 -0851.2  
4797 9.7 185138.3 -0821.3  
4798 9.8 185141.2 -0828.0  
4799 9.6 185142.6 -0834.3  
4800 9.5 185152.5 -0817.4  
4801 9.6 185156.8 -0821.0  
4802 9.9 185157.8 -0835.5  
4803 9.4 185207.7 -0812.2  
4804 9.4 185209.4 -0848.0  
4805 9.4 185217.3 -0858.6

4806 8.5 185219.7 -0875.5  
4807 9.1 185225.8 -0831.2  
4808 9.4 185237.2 -0830.8  
4809 8.5 185241.1 -0818.0  
4810 8.8 185241.3 -0819.0  
4811 9.1 185301.4 -0804.1  
4812 9.3 185303.7 -0816.0  
4813 9.7 185322.1 -0846.4  
4814 9.2 185322.4 -0838.6  
4815 9.0 185334.3 -0806.8

-08 4905 19h06m

4816 9.2 185342.3 -0811.5  
4817 10.1 185348.9 -0838.8  
4818 9.8 185357.9 -0834.5  
4819 9.7 185405.3 -0855.4  
4820 8.1 185408.1 -0811.1  
4821 8.8 185417.2 -0838.6  
4822 9.4 185420.8 -0816.4  
4823 9.7 185420.9 -0826.8  
4824 9.5 185438.5 -0835.4  
4825 9.5 185509.7 -0839.0

4826 9.3 185547.1 -0847.1  
4827 9.3 185555.6 -0810.3  
4828 9.7 185612.8 -0845.3  
4829 9.3 185613.5 -0846.3  
4830 9.8 185616.2 -0812.8  
4831 8.8 185616.7 -0822.2  
4832 9.0 185617.3 -0836.5  
4833 8.5 185619.0 -0846.8  
4834 9.5 185624.7 -0821.4  
4835 8.6 185641.9 -0855.4

4836 7.0 185655.1 -0851.8  
4837 7.3 185701.8 -0820.1  
4838 9.8 185710.9 -0849.1  
4839 9.2 185716.8 -0828.2  
4840 8.7 185737.0 -0836.6  
4841 9.1 185741.7 -0844.8  
4842 8.8 185748.3 -0847.6  
4843 9.8 185756.1 -0854.3  
4844 9.8 185757.7 -0837.6  
4845 9.1 185835.1 -0859.1

4846 9.5 185838.0 -0856.3  
4847 9.5 185844.6 -0842.5  
4848 9.8 185905.1 -0805.0  
4849 9.1 185909.1 -0856.3  
4850 9.8 185909.2 -0849.8  
4851 8.9 185909.7 -0804.3  
4852 9.3 185920.8 -0851.4  
4853 9.5 185935.8 -0835.5  
4854 9.5 185939.6 -0844.3  
4855 9.8 185946.2 -0809.1

4856 9.8 185950.7 -0821.9  
4857 9.1 190007.3 -0815.3  
4858 9.0 190008.0 -0859.0  
4859 7.0 190010.0 -0804.0  
4860 9.5 190013.4 -0858.0  
4861 9.4 190054.2 -0800.2  
4862 9.5 190054.5 -0831.0  
4863 9.5 190124.8 -0825.7  
4864 9.5 190129.8 -0836.0  
4865 9.3 190137.8 -0841.7

4866 9.7 190141.8 -0843.7  
4867 9.5 190152.8 -0827.5  
4868 9.6 190153.3 -0838.7  
4869 9.8 190209.3 -0821.0  
4870 9.5 190225.8 -0824.4  
4871 9.1 190243.7 -0803.4  
4872 8.8 190244.0 -0827.7  
4873 9.3 190306.3 -0844.5  
4874 9.5 190315.4 -0859.0  
4875 9.9 190319.4 -0820.3

4876 9.4 190320.4 -0802.3  
4877 8.6 190323.8 -0804.5  
4878 9.5 190349.2 -0810.0  
4879 9.3 190403.3 -0841.6  
4880 9.5 190404.1 -0830.7  
4881 9.1 190414.8 -0812.2  
4882 9.5 190415.6 -0827.4  
4883 9.5 190419.2 -0800.5  
4884 9.0 190419.7 -0856.3  
4885 8.9 190425.9 -0844.2

4886 9.5 190440.0 -0845.4  
4887 5.7 190448.8 -0810.0  
4888 9.1 190449.3 -0856.5  
4889 9.5 190501.8 -0848.8  
4890 9.5 190502.8 -0818.7  
4891 9.5 190518.5 -0800.5  
4892 9.3 190523.8 -0831.4  
4893 9.4 190532.4 -0836.3  
4894 9.8 190542.6 -0849.4  
4895 9.5 190543.2 -0839.0

4896 9.0 190548.8 -0802.3  
4897 9.4 190558.7 -0834.6  
4898 9.4 190559.1 -0841.0  
4899 9.7 190603.4 -0824.5  
4900 6.9 190621.3 -0857.8  
4901 9.3 190624.1 -0853.6  
4902 7.9 190634.4 -0806.5  
4903 8.9 190634.6 -0843.8  
4904 9.7 190635.4 -0857.7  
4905 9.5 190643.6 -0830.5



|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 4906 8.9 190656.6 -0838.5 | 4996 9.8 192048.5 -0852.7 | 5086 9.7 192639.0 -0820.8 | 5176 9.5 194938.9 -0818.3 |
| 4907 9.0 190743.3 -0852.3 | 4997 9.9 192130.8 -0855.8 | 5087 9.8 193641.0 -0855.5 | 5177 9.5 194955.5 -0844.4 |
| 4908 9.7 190746.3 -0843.8 | 4998 10. 192131.6 -0829.5 | 5088 9.8 193645.8 -0828.0 | 5178 8.5 195022.4 -0824.6 |
| 4909 9.4 190749.1 -0849.0 | 4999 10. 192135.7 -0838.7 | 5089 9.4 193651.3 -0842.2 | 5179 9.5 195026.6 -0846.0 |
| 4910 9.7 190756.0 -0840.6 | 5000 9.4 192126.5 -0826.2 | 5090 9.1 193656.7 -0839.7 | 5180 9.5 195028.8 -0830.7 |
| 4911 9.2 190807.3 -0802.1 | 5001 9.5 192144.2 -0811.7 | 5091 9.4 193658.6 -0802.0 | 5181 9.3 195046.5 -0843.8 |
| 4912 7.5 190827.1 -0856.3 | 5002 8.7 192157.1 -0819.0 | 5092 9.8 193702.0 -0846.9 | 5182 9.0 195058.9 -0838.9 |
| 4913 9.1 190833.5 -0830.3 | 5003 8.6 192206.3 -0833.0 | 5093 9.2 193704.1 -0854.7 | 5183 9.4 195110.0 -0804.6 |
| 4914 9.5 190845.0 -0819.3 | 5004 9.3 192206.8 -0804.3 | 5094 9.0 193708.9 -0803.7 | 5184 9.5 195118.7 -0859.9 |
| 4915 9.4 190846.4 -0848.3 | 5005 9.4 192208.3 -0802.7 | 5095 8.2 193710.6 -0859.1 | 5185 9.1 195122.3 -0805.6 |
| 4916 9.5 190849.0 -0823.4 | 5006 9.1 192215.1 -0849.1 | 5096 8.5 193714.8 -0817.2 | 5186 7.8 195134.4 -0828.7 |
| 4917 9.1 190906.0 -0807.1 | 5007 9.0 192243.5 -0844.1 | 5097 9.6 193805.0 -0841.3 | 5187 9.9 195141.7 -0846.1 |
| 4918 9.5 190918.6 -0808.5 | 5008 7.6 192250.1 -0829.0 | 5098 9.0 193812.6 -0845.1 | 5188 9.8 195146.4 -0814.8 |
| 4919 9.5 190923.8 -0806.7 | 5009 9.0 192311.0 -0813.5 | 5099 9.7 193822.6 -0840.6 | 5189 9.5 195158.9 -0826.1 |
| 4920 9.2 190951.9 -0822.0 | 5010 10. 192311.6 -0840.9 | 5100 10. 193822.6 -0855.6 | 5190 9.8 195202.4 -0815.2 |
| 4921 9.2 191005.0 -0828.7 | 5011 9.7 192316.2 -0837.2 | 5101 9.6 193836.8 -0835.6 | 5191 9.4 195233.6 -0854.5 |
| 4922 9.4 191012.0 -0856.0 | 5012 9.5 192329.9 -0809.2 | 5102 9.2 193911.5 -0820.3 | 5192 9.7 195234.5 -0842.6 |
| 4923 9.5 191018.6 -0808.5 | 5013 8.9 192332.8 -0847.4 | 5103 7.8 193917.2 -0830.4 | 5193 9.9 195244.8 -0831.8 |
| 4924 9.5 191022.0 -0856.0 | 5014 9.4 192339.1 -0828.5 | 5104 9.5 193953.3 -0844.5 | 5194 9.4 195255.9 -0831.1 |
| 4925 10. 191023.4 -0843.2 | 5015 9.8 192341.7 -0806.0 | 5105 9.9 194015.2 -0824.8 | 5195 9.1 195300.6 -0812.8 |
| 4926 9.5 191024.3 -0810.0 | 5016 9.4 192350.6 -0817.0 | 5106 9.4 194020.3 -0815.2 | 5196 9.0 195304.8 -0849.6 |
| 4927 9.9 191026.4 -0845.0 | 5017 9.6 192359.4 -0858.8 | 5107 9.8 194022.3 -0855.4 | 5197 9.8 195307.4 -0839.2 |
| 4928 10. 191039.6 -0801.5 | 5018 9.7 192438.1 -0858.7 | 5108 9.7 194032.3 -0842.8 | 5198 9.7 195318.1 -0823.0 |
| 4929 8.4 191056.5 -0821.2 | 5019 9.9 192442.4 -0857.9 | 5109 9.4 194037.4 -0859.5 | 5199 9.4 195324.3 -0826.0 |
| 4930 9.2 191103.9 -0816.8 | 5020 9.1 192444.5 -0813.6 | 5110 9.6 194058.1 -0847.4 | 5200 9.0 195423.4 -0813.7 |
| 4931 9.8 191104.9 -0819.5 | 5021 10. 192456.4 -0811.1 | 5111 8.9 194101.2 -0823.7 | 5201 9.5 195427.9 -0800.1 |
| 4932 9.9 191135.3 -0826.9 | 5022 9.8 192503.4 -0859.2 | 5112 8.8 194120.6 -0814.6 | 5202 9.8 195444.4 -0838.2 |
| 4933 9.3 191142.5 -0842.5 | 5023 8.8 192505.9 -0818.0 | 5113 9.7 194126.6 -0848.9 | 5203 9.4 195453.9 -0804.3 |
| 4934 8.8 191209.0 -0848.2 | 5024 9.8 192527.4 -0821.1 | 5114 8.7 194132.3 -0807.4 | 5204 10. 195511.5 -0813.3 |
| 4935 9.5 191220.5 -0822.0 | 5025 9.5 192535.2 -0859.0 | 5115 8.8 194136.1 -0842.3 | 5205 8.1 195514.9 -0805.3 |
| 4936 9.2 191227.1 -0819.4 | 5026 9.9 192535.5 -0826.3 | 5116 9.5 194143.2 -0818.5 | 5206 9.2 195518.8 -0822.1 |
| 4937 9.9 191240.4 -0856.3 | 5027 9.5 192549.7 -0857.1 | 5117 9.0 194144.0 -0823.4 | 5207 9.5 195532.7 -0848.4 |
| 4938 9.5 191241.5 -0832.0 | 5028 9.0 192618.4 -0853.9 | 5118 9.2 194144.2 -0826.6 | 5208 9.4 195542.7 -0854.1 |
| 4939 8.5 191248.3 -0829.6 | 5029 9.7 192624.9 -0803.6 | 5119 9.5 194206.8 -0856.6 | 5209 9.4 195601.9 -0817.5 |
| 4940 7.5 191253.5 -0855.7 | 5030 9.8 192635.5 -0851.4 | 5120 9.5 194211.9 -0843.5 | 5210 9.6 195603.5 -0836.8 |
| 4941 9.2 191307.6 -0823.3 | 5031 9.0 192636.5 -0848.1 | 5121 8.0 194223.1 -0857.8 | 5211 9.2 195616.2 -0839.8 |
| 4942 9.8 191324.1 -0821.5 | 5032 9.4 192647.5 -0845.2 | 5122 9.8 194226.2 -0829.6 | 5212 9.0 195627.9 -0808.4 |
| 4943 9.9 191330.0 -0834.9 | 5033 9.5 192700.8 -0803.4 | 5123 9.2 194233.6 -0855.8 | 5213 9.8 195632.9 -0824.9 |
| 4944 9.4 191342.1 -0822.8 | 5034 9.8 192713.1 -0835.2 | 5124 9.8 194236.3 -0823.5 | 5214 8.8 195635.2 -0845.0 |
| 4945 10. 191342.6 -0832.2 | 5035 9.1 192719.6 -0822.0 | 5125 9.5 194245.7 -0835.5 | 5215 9.5 195637.9 -0823.4 |
| 4946 9.5 191351.9 -0831.1 | 5036 9.1 192727.2 -0824.0 | 5126 9.1 194302.7 -0836.0 | 5216 8.6 195717.3 -0840.8 |
| 4947 9.3 191356.0 -0828.0 | 5037 9.3 192722.4 -0806.3 | 5127 9.3 194305.5 -0818.1 | 5217 7.8 195724.4 -0831.0 |
| 4948 9.4 191400.9 -0835.0 | 5038 9.5 192740.9 -0803.2 | 5128 9.3 194306.8 -0854.8 | 5218 8.8 195724.6 -0848.8 |
| 4949 9.2 191412.6 -0816.8 | 5039 9.4 192741.2 -0854.1 | 5129 9.4 194315.7 -0822.1 | 5219 9.1 195739.4 -0804.7 |
| 4950 7.0 191428.0 -0828.1 | 5040 9.2 192752.5 -0842.3 | 5130 9.3 194317.1 -0851.3 | 5220 9.5 195743.7 -0838.0 |
| 4951 9.5 191433.6 -0803.7 | 5041 9.3 192759.1 -0822.2 | 5131 9.5 194318.6 -0853.2 | 5221 9.8 195750.7 -0825.8 |
| 4952 9.7 191443.0 -0857.1 | 5042 9.7 192811.4 -0828.7 | 5132 9.9 194319.4 -0849.1 | 5222 9.6 195758.4 -0836.1 |
| 4953 9.1 191451.7 -0839.2 | 5043 8.8 192826.6 -0830.9 | 5133 9.4 194406.8 -0815.9 | 5223 8.5 195915.4 -0831.9 |
| 4954 9.5 191512.1 -0803.0 | 5044 9.5 192833.5 -0852.8 | 5134 10. 194414.1 -0803.8 | 5224 9.9 195918.7 -0850.3 |
| 4955 9.6 191512.8 -0839.5 | 5045 9.5 192850.4 -0800.3 | 5135 9.3 194421.7 -0830.8 | 5225 9.6 195918.7 -0853.5 |
| 4956 9.5 191514.2 -0853.2 | 5046 9.8 192852.5 -0849.3 | 5136 9.6 194428.6 -0850.2 | 5226 9.9 195811.4 -0809.3 |
| 4957 9.6 191537.1 -0857.4 | 5047 9.5 192900.2 -0813.9 | 5137 9.8 194436.8 -0812.2 | 5227 9.6 195812.0 -0857.9 |
| 4958 9.5 191544.0 -0818.3 | 5048 9.7 192916.8 -0850.3 | 5138 9.3 194439.3 -0811.0 | 5228 9.8 195816.2 -0833.0 |
| 4959 9.4 191552.0 -0831.0 | 5049 9.3 192921.0 -0816.0 | 5139 9.5 194452.1 -0800.1 | 5229 8.5 195816.7 -0854.1 |
| 4960 8.3 191600.0 -0829.7 | 5050 9.0 192921.2 -0822.6 | 5140 9.5 194455.6 -0844.7 | 5230 9.1 195837.4 -0846.9 |
| 4961 9.8 191620.4 -0843.7 | 5051 9.5 192931.1 -0817.5 | 5141 8.2 194456.4 -0803.7 | 5231 9.1 195837.4 -0826.8 |
| 4962 9.3 191626.5 -0829.2 | 5052 9.8 192948.2 -0818.6 | 5142 9.5 194458.6 -0844.1 | 5232 9.4 195837.7 -0843.1 |
| 4963 9.5 191633.1 -0804.6 | 5053 9.7 192949.1 -0803.2 | 5143 9.2 194459.8 -0852.0 | 5233 9.5 195840.1 -0804.5 |
| 4964 9.3 191641.6 -0836.3 | 5054 9.6 192954.9 -0805.9 | 5144 9.0 194518.2 -0838.1 | 5234 8.8 195859.4 -0827.0 |
| 4965 9.5 191653.4 -0826.5 | 5055 8.8 192031.6 -0838.1 | 5145 9.3 194522.4 -0818.3 | 5235 9.4 195900.1 -0800.9 |
| 4966 9.0 191701.0 -0822.6 | 5056 9.4 193038.7 -0822.1 | 5146 9.5 194537.1 -0853.5 | 5236 9.0 195910.5 -0824.4 |
| 4967 9.4 191706.5 -0835.6 | 5057 8.7 193112.5 -0845.9 | 5147 9.4 194605.8 -0808.4 | 5237 7.3 195914.3 -0835.8 |
| 4968 9.0 191715.1 -0810.8 | 5058 9.4 193124.7 -0807.6 | 5148 9.1 194612.0 -0840.9 | 5238 9.4 195927.7 -0855.8 |
| 4969 9.9 191718.4 -0844.6 | 5059 9.6 193143.7 -0851.3 | 5149 9.5 194614.7 -0838.3 | 5239 9.8 195929.2 -0809.0 |
| 4970 9.7 191723.9 -0813.5 | 5060 9.7 193144.4 -0850.6 | 5150 5.8 194615.6 -0856.7 | 5240 9.4 195936.0 -0800.4 |
| 4971 9.9 191728.4 -0844.7 | 5061 9.3 193150.2 -0840.2 | 5151 9.6 194639.9 -0818.1 | 5241 9.5 195942.8 -0806.7 |
| 4972 9.4 191750.6 -0824.1 | 5062 7.3 193214.2 -0819.2 | 5152 9.1 194641.4 -0855.0 | 5242 8.9 200004.8 -0844.3 |
| 4973 9.4 191801.6 -0817.7 | 5063 9.5 193243.5 -0843.8 | 5153 9.6 194643.5 -0818.3 | 5243 9.8 200005.0 -0837.5 |
| 4974 9.3 191813.8 -0841.6 | 5064 8.8 193243.9 -0826.9 | 5154 6.2 194646.9 -0836.1 | 5244 9.6 200020.0 -0836.1 |
| 4975 10. 191822.4 -0840.1 | 5065 9.8 193254.6 -0821.9 | 5155 7.1 194647.7 -0836.8 | 5245 9.5 200033.9 -0803.6 |
| 4976 9.1 191836.4 -0852.7 | 5066 8.8 193257.2 -0836.2 | 5156 9.1 194654.9 -0814.2 | 5246 8.8 200038.3 -0831.6 |
| 4977 8.0 191841.8 -0826.8 | 5067 9.2 193259.4 -0835.0 | 5157 9.4 194705.5 -0842.4 | 5247 9.1 200051.6 -0851.5 |
| 4978 8.9 191849.6 -0832.4 | 5068 8.8 193308.3 -0611.2 | 5158 9.0 194716.0 -0805.2 | 5248 9.7 200114.8 -0835.0 |
| 4979 8.3 191848.6 -0800.1 | 5069 9.1 193312.9 -0851.6 | 5159 10. 194721.0 -0846.2 | 5249 9.0 200142.0 -0835.1 |
| 4980 9.7 191854.0 -0821.2 | 5070 9.9 193328.0 -0850.2 | 5160 7.8 194722.6 -0811.0 | 5250 9.6 200147.5 -0834.0 |
| 4981 9.1 191900.1 -0831.7 | 5071 9.5 193332.7 -0800.5 | 5161 9.5 194736.6 -0839.1 | 5251 9.0 200209.0 -0829.6 |
| 4982 9.1 191905.1 -0806.1 | 5072 9.4 193334.2 -0824.2 | 5162 9.9 194736.7 -0800.2 | 5252 9.5 200217.1 -0833.6 |
| 4983 9.2 191914.5 -0825.0 | 5073 8.7 193344.7 -0857.9 | 5163 9.7 194739.8 -0800.0 | 5253 9.2 200217.5 -0843.4 |
| 4984 9.1 191918.1 -0823.4 | 5074 9.2 193411.0 -0853.7 | 5164 9.5 194742.8 -0845.8 | 5254 9.4 200222.6 -0839.4 |
| 4985 9.6 191931.2 -0813.4 | 5075 8.8 193440.6 -0804.5 | 5165 8.8 194746.9 -0830.4 | 5255 9.4 200224.5 -0837.9 |
| 4986 8.8 191933.8 -0828.5 | 5076 9.7 193454.0 -0857.3 | 5166 9.0 194747.0 -0810.2 | 5256 9.4 200227.7 -0859.0 |
| 4987 8.5 191947.8 -0839.4 | 5077 9.2 193507.5 -0831.7 | 5167 9.3 194751.9 -0818.7 | 5257 9.5 200236.8 -0852.8 |
| 4988 9.4 192002.2 -0829.8 | 5078 7.2 193511.2 -0838.4 | 5168 9.0 194757.3 -0813.1 | 5258 9.5 200240.0 -0802.8 |
| 4989 9.1 192005.3 -0830.4 | 5079 8.0 193515.3 -0840.1 | 5169 9.1 194815.4 -0827.5 | 5259 9.8 200250.0 -0825.0 |
| 4990 9.9 192024.1 -0824.5 | 5080 9.0 193517.4 -0804.5 | 5170 9.0 194825.3 -0821.9 | 5260 9.9 200305.5 -0819.4 |
| 4991 9.4 192026.4 -0826.3 | 5081 8.4 193528.9 -0820.0 | 5171 9.1 194852.3 -0817.0 | 5261 9.9 200308.5 -0821.1 |
| 4992 9.3 192029.7 -0843.2 | 5082 8.2 193544.9 -0850.6 | 5172 10. 194917.4 -0830.3 | 5262 9.8 200323.1 -0802.9 |
| 4993 9.1 192035.2 -0854.4 | 5083 9.5 193549.6 -0828.7 | 5173 9.3 194928.1 -0858.9 | 5263 9.3 200323.6 -0823.6 |
| 4994 9.1 192040.1 -0803.7 | 5084 9.9 193551.3 -0817.3 | 5174 9.4 194929.4 -0812.5 | 5264 9.5 200341.4 -0854.0 |
| 4995 9.0 192047.9 -0826.6 | 5085 8.2 193625.5 -0841.9 | 5175 8.8 194938.3 -0828.1 | 5265 9.8 200341.5 -0837.2 |



-08 5266 20h03m

5266 9.7 200351.6 -0839.5  
5267 9.0 200353.3 -0857.5  
5268 9.4 200408.0 -0823.0  
5269 9.5 200408.8 -0837.9  
5270 9.4 200418.8 -0844.2  
5271 9.5 200419.2 -0812.1  
5272 7.0 200426.0 -0831.1  
5273 9.2 200435.7 -0857.6  
5274 9.6 200437.5 -0814.0  
5275 9.3 200446.9 -0809.6  
  
5276 9.3 200447.5 -0807.1  
5277 9.5 200522.8 -0855.9  
5278 9.7 200525.4 -0844.4  
5279 9.1 200533.8 -0853.0  
5280 9.5 200547.7 -0812.1  
5281 9.5 200613.6 -0840.2  
5282 9.4 200623.8 -0824.6  
5283 9.4 200630.5 -0826.8  
5284 9.8 200650.1 -0834.1  
5285 9.6 200659.7 -0842.4  
  
5286 10. 200724.4 -0850.3  
5287 9.6 200733.7 -0849.6  
5288 8.5 200745.0 -0813.0  
5289 9.4 200752.0 -0801.4  
5290 9.8 200802.3 -0855.4  
5291 9.8 200809.1 -0845.8  
5292 9.2 200816.0 -0801.8  
5293 9.1 200818.6 -0817.9  
5294 9.3 200821.1 -0829.3  
5295 8.0 200821.5 -0810.2  
  
5296 9.5 200835.3 -0848.3  
5297 9.6 200840.0 -0826.7  
5298 10. 200840.5 -0806.2  
5299 9.5 200844.6 -0829.6  
5300 8.8 200849.2 -0802.8  
5301 9.4 200851.7 -0841.1  
5302 9.4 200945.1 -0837.6  
5303 9.3 200952.0 -0820.5  
5304 9.5 200954.1 -0827.5  
5305 7.0 201007.5 -0830.3  
  
5306 9.8 201013.5 -0810.3  
5307 9.8 201014.1 -0817.8  
5308 9.2 201020.6 -0822.9  
5309 8.5 201026.0 -0846.0  
5310 9.8 201027.3 -0822.2  
5311 9.5 201043.4 -0843.8  
5312 8.3 201050.1 -0824.0  
5313 9.5 201103.1 -0813.1  
5314 9.5 201104.3 -0806.2  
5315 8.8 201105.0 -0842.9  
  
5316 9.6 201134.0 -0858.8  
5317 10. 201141.6 -0800.4  
5318 8.7 201156.3 -0853.9  
5319 9.7 201211.1 -0813.1  
5320 10. 201225.7 -0842.9  
5321 9.3 201252.1 -0817.8  
5322 9.8 201259.1 -0831.7  
5323 8.0 201259.9 -0811.9  
5324 9.4 201300.9 -0802.4  
5325 9.3 201317.4 -0832.4  
  
5326 9.3 201327.1 -0832.9  
5327 9.7 201339.3 -0800.8  
5328 9.8 201347.9 -0828.4  
5329 9.3 201349.6 -0820.1  
5330 8.7 201353.1 -0813.0  
5331 9.4 201413.6 -0815.0  
5332 9.8 201418.8 -0822.5  
5333 9.6 201436.1 -0818.3  
5334 9.1 201438.6 -0821.2  
5335 9.8 201501.4 -0851.9  
  
5336 9.5 201504.1 -0809.2  
5337 9.4 201513.7 -0816.4  
5338 9.4 201516.7 -0816.8  
5339 9.7 201542.9 -0817.2  
5340 8.7 201547.6 -0814.7  
5341 10. 201556.6 -0816.8  
5342 9.2 201557.2 -0852.5  
5343 8.0 201607.0 -0807.4  
5344 9.5 201615.6 -0855.6  
5345 9.1 201617.8 -0853.1  
  
5346 9.5 201433.2 -0811.5  
5347 9.5 201447.2 -0803.0  
5348 8.3 201459.3 -0804.4  
5349 8.2 201459.7 -0838.1  
5350 8.7 201701.4 -0831.9  
5351 9.4 201704.1 -0831.9  
5352 9.8 201724.3 -0807.2  
5353 9.9 201730.4 -0858.1  
5354 9.0 201730.5 -0808.7  
5355 9.4 201734.4 -0802.4

5356 9.5 201758.1 -0819.6  
5357 8.9 201759.9 -0846.0  
5358 9.8 201801.1 -0850.5  
5359 8.7 201812.7 -0812.4  
5360 9.1 201827.4 -0852.1  
5361 9.5 201842.3 -0858.4  
5362 8.5 201857.5 -0822.1  
5363 9.0 201900.7 -0833.8  
5364 9.5 201901.5 -0821.8  
5365 9.0 201915.9 -0841.4  
  
5366 8.7 201932.6 -0806.2  
5367 9.6 202006.0 -0808.7  
5368 10. 202035.3 -0805.6  
5369 9.5 202102.7 -0819.6  
5370 9.1 202106.3 -0804.7  
5371 8.9 202127.7 -0830.1  
5372 8.5 202128.5 -0845.7  
5373 10. 202139.7 -0815.5  
5374 9.4 202145.5 -0829.3  
5375 10. 202221.3 -0812.8  
  
5376 9.7 202228.8 -0839.3  
5377 9.5 202245.5 -0845.7  
5378 9.3 202248.5 -0847.6  
5379 9.6 202250.1 -0845.3  
5380 8.3 202301.3 -0831.9  
5381 8.8 202322.5 -0846.0  
5382 9.8 202322.8 -0831.3  
5383 9.3 202331.4 -0856.4  
5384 8.0 202415.9 -0851.4  
5385 10. 202419.8 -0851.4  
  
5386 9.7 202429.7 -0847.3  
5387 8.6 202437.3 -0840.8  
5388 9.8 202442.1 -0832.9  
5389 9.4 202455.7 -0804.4  
5390 9.5 202459.2 -0811.2  
5391 8.0 202504.8 -0825.3  
5392 9.5 202507.3 -0817.3  
5393 9.8 202509.1 -0809.7  
5394 9.4 202510.4 -0805.5  
5395 9.5 202511.5 -0821.1  
  
5396 9.2 202541.8 -0822.3  
5397 9.3 202545.9 -0820.9  
5398 9.1 202555.2 -0810.4  
5399 9.7 202624.2 -0811.2  
5400 9.9 202624.5 -0810.4  
5401 9.5 202641.2 -0802.1  
5402 8.6 202654.2 -0811.0  
5403 9.5 202715.4 -0839.9  
5404 9.1 202732.1 -0845.4  
5405 9.4 202737.4 -0803.5  
  
5406 9.4 202811.8 -0811.7  
5407 9.8 202813.2 -0841.2  
5408 9.2 202825.8 -0812.1  
5409 9.6 202853.5 -0839.4  
5410 9.5 202910.7 -0809.5  
5411 9.5 202924.5 -0855.6  
5412 8.8 202926.3 -0823.8  
5413 9.7 202930.1 -0802.3  
5414 9.5 202950.7 -0842.6  
5415 9.3 202957.2 -0806.9  
  
5416 10. 203021.0 -0857.7  
5417 8.8 203035.8 -0811.6  
5418 9.3 203057.4 -0804.8  
5419 9.5 203100.2 -0837.1  
5420 9.2 203102.7 -0803.4  
5421 7.3 203108.5 -0854.2  
5422 9.5 203119.7 -0827.9  
5423 8.4 203134.3 -0850.5  
5424 8.0 203140.2 -0814.5  
5425 10. 203153.7 -0842.8  
  
5426 8.0 203206.7 -0805.0  
5427 9.0 203215.8 -0815.6  
5428 9.5 203238.3 -0811.8  
5429 9.9 203239.5 -0817.9  
5430 10. 203310.0 -0847.3  
5431 8.2 203310.3 -0833.1  
5432 9.0 203315.1 -0825.7  
5433 9.7 203315.3 -0833.3  
5434 9.8 203334.0 -0800.3  
5435 9.7 203334.7 -0854.0  
  
5436 9.8 203349.2 -0803.9  
5437 9.5 203401.8 -0825.5  
5438 9.4 203401.9 -0835.6  
5439 8.0 203407.7 -0807.7  
5440 10. 203432.2 -0841.3  
5441 9.4 203437.5 -0825.7  
5442 9.5 203439.0 -0816.4  
5443 9.1 203509.7 -0836.7  
5444 9.6 203510.0 -0857.4  
5445 9.9 203516.6 -0839.1

5446 9.8 203523.7 -0804.8  
5447 9.7 203533.4 -0803.8  
5448 9.5 203535.3 -0857.0  
5449 9.7 203535.8 -0819.3  
5450 9.0 203601.0 -0854.6  
5451 9.2 203617.7 -0801.1  
5452 8.8 203622.4 -0806.2  
5453 9.0 203624.8 -0832.5  
5454 9.1 203636.1 -0822.4  
5455 8.3 203637.5 -0857.2  
  
5456 10. 203643.9 -0846.9  
5457 10. 203650.7 -0842.7  
5458 9.5 203702.6 -0810.8  
5459 9.4 203704.1 -0802.8  
5460 8.0 203707.4 -0831.1  
5461 9.5 203715.7 -0815.7  
5462 9.1 203726.4 -0844.7  
5463 9.4 203729.9 -0827.3  
5464 8.5 203737.1 -0815.5  
5465 8.8 203741.8 -0806.5  
  
5466 9.0 203744.3 -0840.2  
5467 9.0 203750.4 -0816.6  
5468 8.8 203802.3 -0811.2  
5469 8.3 203809.0 -0858.5  
5470 9.5 203822.4 -0831.9  
5471 9.6 203849.3 -0841.4  
5472 9.5 203855.1 -0820.9  
5473 9.4 203902.0 -0800.2  
5474 10. 203902.7 -0839.5  
5475 9.4 203928.9 -0824.0  
  
5476 8.7 203934.6 -0858.6  
5477 9.4 203941.0 -0836.5  
5478 9.9 204026.2 -0806.8  
5479 9.4 204056.4 -0829.3  
5480 9.1 204056.9 -0831.2  
5481 9.4 204123.9 -0827.3  
5482 9.4 204133.3 -0804.3  
5483 9.7 204140.3 -0846.6  
5484 9.4 204147.3 -0804.2  
5485 9.3 204204.4 -0819.0  
  
5486 9.5 204206.3 -0846.9  
5487 8.7 204219.2 -0801.5  
5488 9.4 204220.4 -0816.2  
5489 10. 204227.2 -0842.7  
5490 9.5 204235.3 -0844.4  
5491 9.6 204236.7 -0816.6  
5492 9.5 204237.5 -0847.6  
5493 9.5 204233.5 -0834.3  
5494 9.9 204331.3 -0849.2  
5495 8.6 204334.5 -0829.1  
  
5496 9.5 204343.4 -0847.6  
5497 9.6 204357.8 -0845.4  
5498 9.8 204358.1 -0832.8  
5499 9.5 204412.0 -0803.9  
5500 8.7 204412.2 -0802.1  
5501 9.8 204434.5 -0820.4  
5502 8.3 204441.6 -0836.2  
5503 9.2 204459.0 -0818.3  
5504 9.5 204501.6 -0801.0  
5505 9.6 204515.3 -0821.9  
  
5506 9.4 204520.9 -0813.6  
5507 9.4 204547.7 -0805.6  
5508 10. 204558.1 -0848.0  
5509 9.1 204602.4 -0820.0  
5510 9.0 204607.9 -0808.8  
5511 9.0 204617.0 -0831.6  
5512 9.7 204620.1 -0849.6  
5513 9.9 204641.0 -0858.6  
5514 9.1 204641.2 -0841.3  
5515 9.5 204654.6 -0839.4  
  
5516 8.5 204701.4 -0843.6  
5517 8.5 204714.0 -0820.6  
5518 9.4 204732.7 -0819.7  
5519 9.0 204735.5 -0825.8  
5520 9.3 204754.4 -0815.7  
5521 10. 204805.7 -0849.6  
5522 9.7 204811.3 -0803.1  
5523 8.7 204822.0 -0816.0  
5524 9.6 204825.7 -0840.4  
5525 9.7 204854.1 -0828.3  
  
5526 9.4 204906.4 -0800.5  
5527 9.5 204922.0 -0830.9  
5528 9.4 204945.6 -0815.8  
5529 7.3 204953.5 -0815.8  
5530 9.5 205011.2 -0854.1  
5531 9.5 205031.7 -0844.0  
5532 9.5 205058.8 -0810.5  
5533 9.1 205108.5 -0844.9  
5534 9.2 205129.1 -0845.5  
5535 8.0 205141.9 -0811.0

5536 9.4 205144.6 -0837.1  
5537 9.5 205148.7 -0857.3  
5538 9.3 205150.8 -0805.2  
5539 9.8 205209.0 -0820.8  
5540 9.4 205209.5 -0824.8  
5541 9.3 205224.3 -0859.2  
5542 9.8 205244.0 -0842.2  
5543 9.1 205257.1 -0821.3  
5544 8.2 205300.6 -0854.2  
5545 9.8 205315.5 -0804.7  
  
5546 9.5 205317.3 -0802.3  
5547 9.6 205336.4 -0834.5  
5548 9.5 205408.7 -0820.8  
5549 10. 205418.8 -0828.1  
5550 9.6 205424.0 -0809.3  
5551 9.4 205442.1 -0833.5  
5552 9.5 205453.4 -0852.7  
5553 9.3 205503.9 -0840.3  
5554 9.4 205521.4 -0831.6  
5555 8.5 205526.6 -0821.7  
  
5556 9.5 205531.1 -0830.7  
5557 9.6 205532.5 -0803.9  
5558 9.4 205553.4 -0843.4  
5559 9.6 205607.3 -0844.9  
5560 9.4 205617.2 -0824.4  
5561 9.5 205621.3 -0839.7  
5562 8.8 205624.2 -0845.0  
5563 9.6 205635.6 -0808.7  
5564 9.8 205715.1 -0822.8  
5565 9.1 205739.1 -0818.6  
  
5566 9.8 205749.7 -0827.5  
5567 9.8 205752.4 -0848.8  
5568 8.2 205753.4 -0859.3  
5569 9.4 205820.2 -0830.2  
5570 9.7 205823.4 -0845.7  
5571 9.6 205839.1 -0816.5  
5572 9.8 205839.6 -0815.2  
5573 9.3 205845.2 -0827.9  
5574 9.5 205857.5 -0802.2  
5575 9.3 205920.0 -0810.0  
  
5576 8.8 205923.6 -0819.6  
5577 9.7 205924.8 -0844.5  
5578 9.6 205928.2 -0828.7  
5579 9.3 205932.8 -0847.8  
5580 8.3 205939.6 -0844.7  
5581 7.0 205940.6 -0848.6  
5582 9.2 205941.3 -0846.0  
5583 9.1 205948.4 -0858.3  
5584 9.5 205951.4 -0841.9  
5585 9.5 210000.9 -0801.4  
  
5586 9.1 210001.5 -0825.8  
5587 10. 210017.0 -0840.9  
5588 8.5 210050.5 -0848.6  
5589 9.3 210104.7 -0856.4  
5590 9.5 210107.2 -0816.6  
5591 9.7 210115.5 -0844.9  
5592 9.7 210142.8 -0847.7  
5593 9.8 210144.3 -0824.0  
5594 9.4 210146.5 -0842.4  
5595 9.4 210159.7 -0826.4  
  
5596 9.3 210241.7 -0817.5  
5597 8.3 210302.7 -0813.6  
5598 9.9 210355.8 -0843.0  
5599 8.3 210402.3 -0833.3  
5600 9.2 210406.7 -0831.9  
5601 9.5 210426.9 -0816.9  
5602 10. 210430.3 -0853.8  
5603 8.7 210433.2 -0857.5  
5604 8.3 210458.5 -0845.2  
5605 9.7 210516.4 -0845.3  
  
5606 9.9 210530.7 -0858.6  
5607 9.5 210534.2 -0810.9  
5608 9.5 210612.2 -0843.6  
5609 9.3 210630.9 -0849.5  
5610 9.8 210701.5 -0800.3  
5611 8.4 210710.9 -0819.0  
5612 9.5 210712.4 -0827.8  
5613 7.3 210712.6 -0854.9  
5614 9.3 210807.1 -0840.6  
5615 9.5 210809.7 -0832.4  
  
5616 9.2 210812.2 -0837.8  
5617 8.0 210859.6 -0815.2  
5618 9.6 210859.9 -0816.6  
5619 9.6 210912.0 -0842.7  
5620 9.3 210915.5 -0800.4  
5621 9.1 210916.5 -0803.4  
5622 9.7 210928.1 -0806.2  
5623 9.2 210947.4 -0826.9  
5624 9.2 210947.4 -0810.8  
5625 9.6 211025.1 -0821.6

-08 5625 21h10m



-08 5626 21h10m

5626 9.3 211052.2 -0838.9  
5627 9.5 211116.7 -0829.1  
5628 9.4 211157.0 -0852.0  
5629 9.0 211218.8 -0844.0  
5630 9.8 211259.7 -0822.7  
5631 8.2 211332.5 -0852.2  
5632 9.0 211336.7 -0846.2  
5633 9.4 211359.2 -0844.3  
5634 8.2 211412.6 -0808.4  
5635 9.0 211446.9 -0807.3

5636 9.5 211447.1 -0824.0  
5637 9.5 211522.2 -0814.1  
5638 9.2 211531.1 -0856.1  
5639 9.5 211540.1 -0856.8  
5640 9.5 211550.0 -0800.7  
5641 10.1 211551.5 -0807.0  
5642 9.7 211622.6 -0851.5  
5643 9.8 211645.7 -0816.4  
5644 9.0 211655.9 -0832.4  
5645 8.0 211711.4 -0848.1

5646 9.8 211713.6 -0856.8  
5647 9.5 211730.9 -0838.1  
5648 9.2 211758.8 -0826.5  
5649 9.5 211801.6 -0831.3  
5650 8.2 211818.1 -0854.4  
5651 9.8 211855.9 -0827.3  
5652 9.5 211908.8 -0819.3  
5653 9.0 211927.9 -0938.0  
5654 9.7 211944.3 -0807.3  
5655 9.3 211958.6 -0847.1

5656 9.5 212009.1 -0839.6  
5657 7.8 212001.1 -0859.4  
5658 10.1 212033.3 -0817.1  
5659 10.1 212102.3 -0856.4  
5660 9.1 212103.8 -0845.5  
5661 9.5 212147.9 -0806.1  
5662 9.2 212157.9 -0830.3  
5663 9.3 212200.9 -0831.5  
5664 9.4 212224.8 -0819.3  
5665 9.1 212235.4 -0847.9

5666 9.5 212259.4 -0845.2  
5667 9.8 212341.3 -0859.2  
5668 9.5 212345.3 -0840.2  
5669 9.5 212346.1 -0813.4  
5670 9.6 212401.3 -0849.3  
5671 9.5 212405.3 -0847.8  
5672 9.0 212414.0 -0832.5  
5673 9.3 212426.7 -0824.1  
5674 8.8 212521.7 -0851.4  
5675 9.1 212527.7 -0835.9

5676 9.8 212556.7 -0813.6  
5677 9.8 212605.7 -0844.5  
5678 9.8 212623.1 -0850.2  
5679 9.3 212634.8 -0845.5  
5680 9.6 212639.0 -0823.4  
5681 8.6 212639.6 -0813.2  
5682 8.3 212642.3 -0851.5  
5683 9.4 212647.0 -0803.1  
5684 8.2 212653.5 -0847.9  
5685 8.0 212657.5 -0802.1

5686 9.1 212700.5 -0844.3  
5687 9.5 212706.7 -0801.6  
5688 9.5 212710.4 -0815.9  
5689 9.2 212746.5 -0804.0  
5690 9.5 212823.9 -0810.1  
5691 9.2 212835.4 -0831.5  
5692 10.1 212836.2 -0840.1  
5693 9.4 212840.1 -0833.3  
5694 9.5 212841.0 -0849.8  
5695 9.9 212911.2 -0817.7

5696 8.3 212924.8 -0827.9  
5697 9.0 212927.0 -0810.4  
5698 10.1 212931.9 -0852.8  
5699 9.3 212954.6 -0827.2  
5700 9.5 212957.3 -0821.4  
5701 5.0 213002.3 -0830.0  
5702 9.5 213035.8 -0825.1  
5703 9.4 213043.9 -0811.4  
5704 9.3 213048.9 -0850.5  
5705 9.4 213100.5 -0820.2

5706 9.1 213117.9 -0855.5  
5707 9.7 213129.9 -0842.9  
5708 9.0 213151.0 -0851.8  
5709 8.7 213208.1 -0852.9  
5710 9.5 213208.2 -0806.8  
5711 9.4 213202.6 -0825.5  
5712 9.5 213331.8 -0826.0  
5713 9.6 213404.0 -0854.9  
5714 9.8 213410.0 -0808.0  
5715 9.5 213420.3 -0826.0

5716 9.0 213452.2 -0824.9  
5717 9.3 213457.1 -0824.1  
5718 9.8 213557.0 -0851.1  
5719 8.2 213544.5 -0804.2  
5720 9.5 213559.9 -0802.2  
5721 9.9 213615.7 -0831.7  
5722 9.4 213636.0 -0858.8  
5723 8.6 213652.1 -0819.4  
5724 9.5 213705.6 -0815.4  
5725 9.1 213711.7 -0804.8

5726 9.4 213721.1 -0855.7  
5727 9.8 213727.5 -0840.3  
5728 8.5 213733.6 -0808.9  
5729 9.8 213752.0 -0842.0  
5730 9.4 213755.5 -0859.5  
5731 9.5 213808.1 -0856.1  
5732 9.9 213812.6 -0851.0  
5733 9.3 213827.7 -0824.2  
5734 8.3 213902.0 -0840.2  
5735 9.5 213907.0 -0845.7

5736 9.0 213907.9 -0836.2  
5737 8.9 213938.6 -0824.0  
5738 9.1 213950.0 -0844.1  
5739 8.0 213956.6 -0819.9  
5740 9.8 214005.4 -0837.4  
5741 9.5 214024.5 -0859.3  
5742 9.8 214032.1 -0820.5  
5743 8.5 214100.6 -0802.3  
5744 9.8 214131.5 -0802.3  
5745 9.4 214151.8 -0828.8

5746 8.3 214151.9 -0859.1  
5747 9.5 214203.2 -0817.7  
5748 9.1 214236.1 -0856.7  
5749 8.8 214257.3 -0827.6  
5750 9.3 214302.8 -0847.5  
5751 9.1 214303.3 -0851.9  
5752 9.5 214310.5 -0827.8  
5753 7.8 214321.8 -0835.0  
5754 9.4 214322.5 -0837.7  
5755 8.7 214353.1 -0805.0

5756 9.2 214429.1 -0801.6  
5757 8.8 214438.9 -0858.6  
5758 9.4 214439.1 -0840.4  
5759 9.6 214508.1 -0802.2  
5760 9.2 214618.0 -0818.0  
5761 9.3 214619.3 -0825.6  
5762 9.5 214620.9 -0857.9  
5763 9.5 214635.9 -0859.7  
5764 8.5 214652.2 -0811.5  
5765 9.4 214733.9 -0803.8

5766 9.5 214739.9 -0859.3  
5767 9.1 214807.7 -0811.8  
5768 9.8 214829.8 -0855.1  
5769 9.7 214842.0 -0817.7  
5770 9.0 214848.7 -0814.9  
5771 9.3 214858.9 -0846.0  
5772 9.7 214928.8 -0810.5  
5773 9.5 215011.3 -0835.3  
5774 9.0 215041.2 -0815.4  
5775 9.5 215044.8 -0833.6

5776 9.5 215047.4 -0818.2  
5777 9.5 215053.5 -0859.0  
5778 9.5 215106.7 -0855.3  
5779 9.4 215128.2 -0802.6  
5780 9.2 215130.3 -0832.3  
5781 9.6 215205.3 -0858.7  
5782 9.0 215241.2 -0805.1  
5783 8.8 215254.0 -0813.9  
5784 9.1 215416.9 -0825.3  
5785 8.5 215444.3 -0821.3

5786 9.8 215504.6 -0837.4  
5787 8.5 215511.3 -0808.4  
5788 9.4 215514.5 -0812.5  
5789 8.3 215553.8 -0809.1  
5790 9.6 215557.9 -0859.2  
5791 8.3 215600.4 -0828.7  
5792 9.6 215628.2 -0847.8  
5793 9.4 215654.0 -0857.0  
5794 8.8 215745.3 -0818.1  
5795 10.1 215748.6 -0826.5

5796 8.0 215753.4 -0824.1  
5797 9.7 215832.2 -0843.3  
5798 9.3 215841.4 -0851.5  
5799 9.3 215859.5 -0837.1  
5800 9.5 215904.5 -0818.0  
5801 9.8 215923.2 -0845.1  
5802 9.8 215923.3 -0822.9  
5803 9.8 215924.7 -0850.0  
5804 9.7 215947.5 -0816.2  
5805 9.1 215948.7 -0855.3

5806 8.6 220016.7 -0803.5  
5807 9.0 220024.4 -0838.9  
5808 9.3 220032.3 -0813.6  
5809 9.0 220043.9 -0819.0  
5810 9.2 220044.6 -0809.1  
5811 9.0 220054.5 -0859.8  
5812 9.5 220057.0 -0828.7  
5813 9.7 220103.7 -0835.0  
5814 9.2 220106.5 -0823.9  
5815 9.8 220127.1 -0847.8

5816 8.8 220144.5 -0824.4  
5817 7.0 220147.9 -0853.7  
5818 6.5 220151.2 -0814.7  
5819 10.1 220207.4 -0821.5  
5820 10.1 220208.8 -0844.3  
5821 9.6 220246.7 -0842.8  
5822 9.8 220254.9 -0846.4  
5823 9.5 220257.5 -0857.3  
5824 9.8 220308.2 -0835.7  
5825 9.1 220326.6 -0843.9

5826 9.3 220334.7 -0831.5  
5827 9.4 220334.9 -0843.6  
5828 9.6 220348.0 -0823.5  
5829 9.6 220438.5 -0841.5  
5830 7.0 220456.5 -0843.6  
5831 9.6 220502.0 -0852.7  
5832 9.8 220527.4 -0820.4  
5833 9.1 220548.0 -0856.7  
5834 8.5 220554.6 -0805.3  
5835 8.9 220604.5 -0821.8

5836 9.5 220609.5 -0846.2  
5837 9.8 220613.0 -0831.7  
5838 9.8 220617.4 -0837.1  
5839 9.6 220714.5 -0806.2  
5840 9.0 220731.2 -0846.3  
5841 9.5 220739.6 -0838.8  
5842 9.1 220754.3 -0823.8  
5843 8.3 220823.1 -0802.1  
5844 8.8 220837.6 -0824.5  
5845 4.0 220911.1 -0829.9

5846 9.1 220926.6 -0827.5  
5847 9.0 221011.5 -0819.3  
5848 9.5 221014.6 -0840.4  
5849 9.4 221057.5 -0800.4  
5850 8.7 221129.9 -0801.9  
5851 8.6 221131.6 -0831.7  
5852 9.5 221136.6 -0802.9  
5853 9.7 221204.5 -0818.5  
5854 9.0 221206.7 -0824.4  
5855 6.2 221233.7 -0832.5

5856 9.5 221251.1 -0814.5  
5857 9.0 221334.2 -0823.7  
5858 8.5 221404.6 -0820.0  
5859 9.5 221419.8 -0816.9  
5860 9.5 221431.4 -0801.7  
5861 9.0 221438.6 -0811.6  
5862 9.0 221453.1 -0810.8  
5863 9.2 221457.7 -0822.9  
5864 9.7 221641.9 -0835.1  
5865 8.9 221656.0 -0850.5

5866 9.5 221745.5 -0804.0  
5867 9.4 221802.0 -0840.8  
5868 9.2 221807.7 -0827.6  
5869 9.3 221811.7 -0826.2  
5870 9.8 221823.8 -0857.8  
5871 9.8 221832.1 -0821.7  
5872 9.5 221846.3 -0841.9  
5873 7.0 221857.9 -0806.7  
5874 9.6 221905.8 -0805.1  
5875 8.8 222002.4 -0858.6

5876 10.1 222007.9 -0823.7  
5877 9.6 222013.7 -0815.0  
5878 9.4 222046.6 -0846.0  
5879 9.6 222046.7 -0829.5  
5880 9.5 222141.7 -0851.0  
5881 9.1 222148.3 -0804.5  
5882 9.3 222150.3 -0803.9  
5883 9.4 222151.7 -0854.3  
5884 9.8 222212.6 -0859.5  
5885 9.1 222225.8 -0808.6

5886 9.5 222233.2 -0857.7  
5887 9.2 222247.8 -0845.3  
5888 7.3 222255.2 -0851.0  
5889 9.1 222256.3 -0827.4  
5890 9.5 222309.3 -0820.7  
5891 10.1 222310.9 -0834.0  
5892 9.9 222539.5 -0845.9  
5893 9.5 222552.4 -0836.7  
5894 9.6 222554.8 -0844.9  
5895 9.6 222641.1 -0800.1

-08 5985 22h49m

5896 9.6 222723.4 -0838.7  
5897 9.9 222725.9 -0833.6  
5898 9.9 222732.4 -0835.8  
5899 10.1 222732.8 -0839.8  
5900 9.5 222747.8 -0844.7  
5901 9.8 222810.8 -0846.9  
5902 8.2 222816.9 -0805.3  
5903 10.1 222817.4 -0820.8  
5904 9.6 222822.7 -0859.6  
5905 7.0 222841.5 -0824.6

5906 10.1 222850.3 -0855.9  
5907 7.7 222924.5 -0818.6  
5908 10.1 222927.5 -0804.4  
5909 9.4 222931.8 -0809.4  
5910 10.1 222932.0 -0828.3  
5911 9.8 222957.8 -0858.7  
5912 6.8 223046.0 -0839.0  
5913 9.4 223048.5 -0824.8  
5914 9.5 223059.5 -0805.3  
5915 9.9 223122.0 -0922.3

5916 10.1 223142.0 -0823.4  
5917 10.1 223153.3 -0842.5  
5918 8.0 223154.5 -0821.4  
5919 9.5 223221.4 -0851.1  
5920 9.6 223221.5 -0835.0  
5921 9.5 223233.1 -0815.4  
5922 9.8 223233.0 -0805.6  
5923 10.1 223331.0 -0813.5  
5924 8.7 223348.0 -0838.6  
5925 9.8 223438.0 -0849.3

5926 9.1 223525.5 -0853.1  
5927 9.9 223529.6 -0839.5  
5928 9.5 223606.6 -0815.4  
5929 10.1 223625.2 -0833.0  
5930 9.5 223643.1 -0841.6  
5931 9.5 223656.5 -0853.0  
5932 8.3 223701.2 -0822.5  
5933 9.1 223703.1 -0835.4  
5934 9.3 223718.7 -0803.3  
5935 8.6 223732.2 -0819.6

5936 9.8 223746.1 -0820.8  
5937 10.1 223747.0 -0852.9  
5938 9.8 223748.0 -0841.1  
5939 10.1 223825.2 -0839.6  
5940 9.6 223831.1 -0817.2  
5941 10.1 223845.9 -0858.2  
5942 9.0 223849.2 -0834.8  
5943 9.5 223920.7 -0809.2  
5944 10.1 223925.2 -0800.3  
5945 9.0 223929.0 -0855.6

5946 9.7 223938.0 -0800.3  
5947 9.0 223951.7 -0811.8  
5948 9.8 224005.2 -0839.8  
5949 9.6 224012.7 -0807.5  
5950 9.1 224023.8 -0815.0  
5951 9.5 224032.9 -0848.4  
5952 8.0 224047.6 -0852.2  
5953 9.5 224103.7 -0820.7  
5954 9.3 224107.7 -0813.1  
5955 10.1 224108.4 -0854.5

5956 9.5 224115.7 -0801.1  
5957 9.8 224118.8 -0854.2  
5958 9.6 224124.6 -0859.9  
5959 9.1 224137.0 -0825.5  
5960 9.5 224151.8 -0824.3  
5961 8.5 224240.5 -0813.4  
5962 9.4 224303.2 -0815.0  
5963 9.2 224304.3 -0843.8  
5964 7.7 224313.5 -0804.7  
5965 9.8 224328.6 -0856.7

5966 9.2 224347.7 -0801.1  
5967 9.4 224406.7 -0802.8  
5968 4.2 224503.3 -0820.9  
5969 9.2 224520.6 -0859.3  
5970 10.1 224524.2 -0819.0  
5971 9.8 224525.9 -0843.0  
5972 9.0 224525.9 -0854.3  
5973 10.1 224605.0 -0835.9  
5974 9.0 224612.8 -0809.5  
5975 9.1 224624.0 -0848.0

5976 9.0 224715.0 -0846.9  
5977 9.8 224721.7 -0817.0  
5978 8.8 224731.4 -0834.1  
5979 8.5 224736.1 -0818.5  
5980 8.7 224811.0 -0835.4  
5981 9.3 224826.4 -0809.3  
5982 9.5 224831.2 -0801.3  
5983 10.1 224836.7 -0842.6  
5984 9.6 224905.8 -0836.4  
5985 9.1 224940.0 -0820.7



-08 5986 22h50m

5986 9.1 225005.3 -0850.6  
5987 9.5 225008.5 -0808.0  
5988 9.5 225037.9 -0804.2  
5989 8.8 225056.1 -0831.0  
5990 9.5 225123.7 -0833.9  
5991 8.5 225126.1 -0859.5  
5992 10. 225142.3 -0845.7  
5993 9.1 225144.2 -0849.4  
5994 9.5 225146.5 -0820.9  
5995 10. 225158.4 -0854.9

5996 8.7 225208.5 -0810.2  
5997 9.3 225258.2 -0835.7  
5998 10. 225347.5 -0803.1  
5999 10. 225413.6 -0812.9  
6000 10. 225416.1 -0842.0  
6001 9.9 225424.8 -0856.5  
6002 9.8 225437.1 -0821.4  
6003 8.5 225437.7 -0830.1  
6004 9.8 225506.8 -0828.8  
6005 9.4 225513.0 -0836.0

6006 9.3 225516.0 -0848.7  
6007 9.3 225527.4 -0822.5  
6008 9.8 225620.7 -0831.7  
6009 8.3 225622.6 -0805.4  
6010 9.5 225629.8 -0838.4  
6011 9.6 225633.7 -0818.8  
6012 9.0 225700.2 -0830.7  
6013 9.8 225703.6 -0809.7  
6014 9.6 225704.9 -0853.7  
6015 9.1 225711.4 -0857.3

6016 9.9 225715.5 -0805.9  
6017 9.8 225734.1 -0808.2  
6018 5.8 225735.7 -0828.4  
6019 7.5 225745.8 -0832.2  
6020 8.9 225802.2 -0852.9  
6021 7.0 225820.4 -0842.7  
6022 9.1 225821.2 -0832.0  
6023 9.4 225833.6 -0845.3  
6024 9.5 225842.7 -0822.4  
6025 7.8 225939.3 -0828.5

6026 9.7 230004.8 -0821.3  
6027 9.4 230012.3 -0832.8  
6028 9.5 230038.4 -0835.7  
6029 9.3 230046.7 -0805.5  
6030 8.3 230051.4 -0803.0  
6031 9.7 230116.3 -0826.6  
6032 10. 230128.8 -0817.4  
6033 10. 230134.3 -0846.3  
6034 8.1 230140.2 -0806.0  
6035 10. 230155.4 -0854.0

6036 9.7 230205.8 -0839.5  
6037 8.8 230234.3 -0850.8  
6038 9.1 230235.0 -0856.4  
6039 10. 230237.8 -0826.1  
6040 7.7 230251.1 -0835.5  
6041 9.8 230311.1 -0822.1  
6042 9.2 230317.8 -0834.7  
6043 9.2 230321.4 -0825.9  
6044 10. 230334.5 -0805.8  
6045 9.3 230338.8 -0858.7

6046 10. 230353.7 -0838.2  
6047 10. 230410.3 -0850.9  
6048 10. 230455.3 -0806.2  
6049 9.2 230524.3 -0856.5  
6050 10. 230524.4 -0800.9  
6051 9.4 230536.0 -0805.8  
6052 9.3 230539.8 -0857.8  
6053 9.5 230545.4 -0852.7  
6054 8.2 230550.1 -0846.7  
6055 9.7 230608.3 -0829.5

6056 9.7 230608.7 -0827.0  
6057 9.5 230625.3 -0833.1  
6058 10. 230634.4 -0814.8  
6059 9.0 230646.2 -0828.1  
6060 9.7 230651.3 -0837.3  
6061 10. 230651.8 -0826.4  
6062 10. 230703.4 -0845.9  
6063 9.1 230704.8 -0852.6  
6064 9.2 230713.8 -0853.2  
6065 8.0 230718.3 -0829.3

6066 9.7 230725.1 -0813.8  
6067 9.4 230733.4 -0846.4  
6068 9.2 230739.0 -0802.3  
6069 9.8 230750.0 -0805.2  
6070 9.6 230752.9 -0858.3  
6071 9.5 230843.7 -0811.9  
6072 9.3 230854.9 -0829.3  
6073 8.5 230855.5 -0857.0  
6074 9.2 230912.5 -0859.4  
6075 9.0 230915.1 -0822.5

6076 5.5 230919.9 -0831.0  
6077 8.5 230921.0 -0851.9  
6078 9.8 230928.5 -0839.8  
6079 9.8 231004.0 -0830.5  
6080 10. 231005.0 -0839.4  
6081 8.8 231005.2 -0843.7  
6082 8.2 231017.3 -0820.0  
6083 8.7 231032.7 -0805.8  
6084 9.0 231039.2 -0810.4  
6085 8.3 231050.7 -0813.5

6086 9.8 231103.9 -0843.4  
6087 9.4 231131.5 -0838.0  
6088 9.3 231147.4 -0858.1  
6089 10. 231148.6 -0850.5  
6090 9.8 231158.3 -0816.0  
6091 9.5 231223.4 -0809.7  
6092 9.5 231300.5 -0853.9  
6093 9.5 231301.2 -0817.1  
6094 10. 231320.4 -0848.7  
6095 8.6 231409.6 -0853.4

6096 8.9 231444.5 -0850.7  
6097 9.0 231459.6 -0801.9  
6098 10. 231524.6 -0846.4  
6099 9.8 231601.2 -0803.9  
6100 10. 231620.4 -0800.0  
6101 9.3 231624.0 -0833.9  
6102 9.8 231634.6 -0813.6  
6103 7.8 231635.3 -0820.4  
6104 9.8 231650.1 -0814.1  
6105 10. 231653.5 -0850.4

6106 8.8 231654.8 -0858.8  
6107 9.4 231725.0 -0807.7  
6108 9.7 231726.6 -0858.1  
6109 9.5 231729.4 -0831.1  
6110 9.5 231810.4 -0814.6  
6111 8.8 231812.7 -0837.6  
6112 9.1 231903.0 -0833.6  
6113 10. 231907.6 -0813.7  
6114 9.9 231928.1 -0839.0  
6115 9.0 232030.1 -0859.3

6116 8.5 232040.8 -0818.9  
6117 9.6 232125.5 -0837.9  
6118 8.0 232127.2 -0812.0  
6119 8.8 232159.6 -0826.4  
6120 10. 232216.7 -0809.1  
6121 9.8 232217.4 -0847.9  
6122 9.6 232221.7 -0811.1  
6123 9.7 232227.2 -0804.6  
6124 9.0 232300.3 -0804.8  
6125 9.1 232304.1 -0833.4

6126 10. 232317.2 -0857.5  
6127 10. 232326.4 -0851.9  
6128 9.5 232404.5 -0831.7  
6129 9.1 232450.0 -0833.0  
6130 8.9 232516.3 -0849.7  
6131 9.9 232538.2 -0807.8  
6132 9.8 232552.6 -0857.0  
6133 9.6 232557.7 -0852.8  
6134 9.8 232620.7 -0822.2  
6135 10. 232625.3 -0815.1

6136 10. 232644.7 -0816.8  
6137 10. 232645.6 -0837.0  
6138 10. 232647.8 -0828.9  
6139 9.9 232710.2 -0855.3  
6140 9.2 232713.2 -0851.7  
6141 7.3 232734.9 -0828.8  
6142 6.3 232803.6 -0816.2  
6143 9.8 232813.7 -0858.2  
6144 9.6 232820.0 -0843.6  
6145 9.5 232836.7 -0853.5

6146 9.5 232842.3 -0831.0  
6147 9.5 232843.4 -0836.0  
6148 10. 232942.6 -0831.2  
6149 9.5 232952.1 -0816.4  
6150 9.3 233009.3 -0858.2  
6151 10. 233010.4 -0853.6  
6152 8.8 233031.7 -0844.8  
6153 10. 233032.9 -0840.3  
6154 9.8 233051.7 -0820.8  
6155 9.7 233056.1 -0836.8

6156 10. 233101.9 -0843.3  
6157 9.1 233109.0 -0835.8  
6158 9.0 233148.7 -0846.8  
6159 9.3 233201.3 -0819.0  
6160 9.4 233207.4 -0810.1  
6161 9.4 233211.3 -0819.9  
6162 9.5 233227.3 -0824.7  
6163 9.7 233255.4 -0821.4  
6164 9.5 233301.6 -0851.6  
6165 8.8 233303.3 -0822.7

6166 7.0 233319.4 -0842.8  
6167 9.5 233355.2 -0814.9  
6168 9.9 233419.9 -0826.7  
6169 9.1 233432.4 -0815.8  
6170 9.8 233437.9 -0845.2  
6171 9.5 233453.8 -0854.7  
6172 9.7 233457.1 -0841.9  
6173 9.4 233457.7 -0817.9  
6174 9.0 233457.7 -0800.6  
6175 8.5 233525.4 -0818.3

6176 9.1 233551.3 -0802.8  
6177 9.1 233600.6 -0843.5  
6178 9.1 233611.2 -0808.1  
6179 8.5 233615.2 -0808.3  
6180 9.5 233703.0 -0847.4  
6181 9.8 233710.0 -0844.3  
6182 9.1 233713.9 -0823.7  
6183 10. 233727.0 -0804.8  
6184 9.7 233823.6 -0801.8  
6185 9.6 233829.4 -0853.1

6186 10. 233917.5 -0802.8  
6187 9.8 233944.8 -0831.2  
6188 9.0 233946.6 -0832.0  
6189 9.2 233950.9 -0845.8  
6190 9.3 234021.5 -0824.5  
6191 9.2 234038.0 -0834.5  
6192 10. 234038.9 -0821.2  
6193 9.7 234055.8 -0846.8  
6194 9.0 234118.1 -0857.6  
6195 9.5 234119.2 -0833.4

6196 9.0 234121.8 -0813.5  
6197 9.4 234128.8 -0826.3  
6198 9.8 234208.3 -0826.4  
6199 9.6 234312.4 -0847.0  
6200 9.8 234431.5 -0815.5  
6201 9.8 234446.4 -0828.3  
6202 9.3 234502.6 -0819.8  
6203 9.8 234511.6 -0852.4  
6204 9.8 234522.5 -0844.1  
6205 9.1 234536.8 -0827.0

6206 9.5 234600.6 -0853.1  
6207 9.2 234625.3 -0840.7  
6208 9.3 234627.9 -0816.0  
6209 9.8 234709.1 -0829.8  
6210 9.1 234721.8 -0804.3  
6211 9.5 234831.4 -0824.7  
6212 9.8 234841.0 -0816.6  
6213 7.8 234934.5 -0810.0  
6214 9.5 235006.9 -0808.2  
6215 8.0 235020.0 -0810.8

6216 9.8 235024.9 -0817.7  
6217 9.3 235036.1 -0840.1  
6218 9.8 235043.0 -0845.0  
6219 9.2 235044.6 -0818.1  
6220 9.6 235134.8 -0848.9  
6221 9.8 235150.1 -0806.8  
6222 8.0 235210.4 -0836.7  
6223 9.9 235219.4 -0829.1  
6224 9.7 235225.9 -0847.5  
6225 9.2 235233.0 -0826.7

6226 9.8 235250.5 -0834.1  
6227 9.0 235320.2 -0808.2  
6228 10. 235402.4 -0849.4  
6229 10. 235413.8 -0846.6  
6230 9.7 235428.6 -0846.4  
6231 8.1 235528.0 -0847.7  
6232 10. 235539.4 -0810.5  
6233 8.8 235615.9 -0821.2  
6234 10. 235623.6 -0821.4  
6235 9.4 235644.2 -0813.3

6236 9.6 235650.9 -0823.2  
6237 9.7 235704.3 -0805.3  
6238 10. 235704.8 -0821.4  
6239 9.7 235706.1 -0809.3  
6240 8.5 235714.2 -0849.7  
6241 9.0 235732.2 -0804.9  
6242 6.7 235803.5 -0823.2  
6243 9.0 235814.3 -0842.0  
6244 9.8 235846.0 -0856.7  
6245 9.8 235902.0 -0842.6

6246 10. 235918.7 -0853.6  
6247 9.9 235957.7 -0808.5  
1 9.8 000111.0 -0845.0  
2 9.8 000154.4 -0811.0  
3 9.0 000252.2 -0817.1  
4 9.4 000503.1 -0831.6  
5 6.5 000527.9 -0837.7  
6 8.5 00137.5 -0801.2  
7 9.5 00144.0 -0802.1  
8 9.1 00203.4 -0817.7

-09 98 0h25m

9 9.5 00209.4 -0852.7  
10 10. 00210.2 -0804.1  
11 9.7 00214.3 -0809.5  
12 9.8 00220.7 -0803.2  
13 7.3 00228.6 -0847.1  
14 9.3 00242.9 -0805.0  
15 9.6 00245.8 -0836.8  
16 8.9 00247.0 -0833.2  
17 10. 00248.7 -0852.8  
18 9.6 00249.2 -0804.8

19 9.3 00249.0 -0829.5  
20 9.4 00249.5 -0841.2  
21 9.9 00259.3 -0807.8  
22 9.1 00260.6 -0810.0  
23 8.5 00264.0 -0821.3  
24 9.4 00264.1 -0824.2  
25 9.5 00265.1 -0845.3  
26 9.4 00265.4 -0801.8  
27 9.4 00265.7 -0844.4  
28 9.1 00265.8 -0808.1

29 9.7 00264.6 -0834.0  
30 7.6 00265.2 -0828.6  
31 9.8 00268.7 -0808.3  
32 8.3 00267.5 -0801.0  
33 9.4 00268.8 -0823.7  
34 9.5 00267.3 -0802.7  
35 9.8 00266.6 -0821.2  
36 9.4 00268.0 -0810.0  
37 9.3 00265.1 -0825.2  
38 9.0 00264.5 -0820.8

39 9.5 01010.5 -0815.0  
40 9.4 01016.9 -0829.5  
41 8.8 01029.6 -0818.5  
42 9.6 01051.8 -0826.0  
43 9.8 01108.7 -0858.0  
44 9.0 01130.0 -0846.5  
45 9.5 01148.9 -0807.6  
46 9.3 01151.4 -0841.8  
47 9.5 01201.0 -0839.6  
48 3.9 01202.1 -0837.6

49 8.5 01242.9 -0851.9  
50 9.4 01249.0 -0857.1  
51 8.7 01256.2 -0842.4  
52 9.5 01334.9 -0807.5  
53 8.6 01339.3 -0854.8  
54 8.9 01353.0 -0805.1  
55 9.0 01357.5 -0832.2  
56 9.2 01417.8 -0833.9  
57 9.8 01428.4 -0840.9  
58 9.4 01431.9 -0801.1

59 9.1 01438.4 -0848.5  
60 8.9 01552.7 -0857.5  
61 9.5 01606.9 -0845.3  
62 10. 01626.4 -0845.2  
63 9.4 01652.1 -0847.8  
64 9.3 01655.7 -0851.6  
65 9.8 01701.6 -0811.8  
66 10. 01703.6 -0843.6  
67 9.3 01712.8 -0832.5  
68 9.0 01721.5 -0826.1

69 9.5 01820.2 -0810.2  
70 7.7 01830.7 -0804.3  
71 9.5 01837.3 -0858.5  
72 9.5 01841.3 -0858.3  
73 9.8 01845.5 -0828.0  
74 9.2 01910.6 -0817.4  
75 10. 01917.4 -0824.0  
76 9.1 01922.8 -0814.3  
77 9.4 01945.8 -0844.5  
78 9.3 01949.9 -0848.8

79 8.0 01958.9 -0827.3  
80 9.6 02009.8 -0849.0  
81 9.2 02035.2 -0829.8  
82 10. 02035.3 -0803.8  
83 9.8 02057.7 -0819.9  
84 9.7 02130.8 -0826.8  
85 10. 02132.0 -0806.0  
86 9.2 02138.5 -0821.1  
87 9.4 02138.1 -0824.5  
88 9.6 02139.3 -0821.0

89 9.4 02207.8 -0810.7  
90 9.5 02214.4 -0846.5  
91 10. 02219.4 -0846.7  
92 9.2 02240.3 -0838.0  
93 10. 02245.6 -0829.3  
94 10. 02257.1 -0833.7  
95 10. 02415.6 -0829.3  
96 9.7 02415.8 -0823.5  
97 8.8 02516.0 -0800.1  
98 9.5 02523.4 -0852.2



-09 99 0h25m

99 9.5 02544.2 -0941.0  
100 10. 02545.2 -0911.3  
101 9.7 02604.6 -0926.6  
102 9.5 02622.7 -0938.1  
103 8.9 02636.8 -0931.2  
104 9.5 02704.3 -0903.0  
105 9.8 02709.0 -0956.0  
106 8.3 02717.1 -0905.7  
107 8.9 02722.8 -0916.7  
108 20.0 02724.9 -0911.8  
  
109 8.8 02728.7 -0940.4  
110 9.9 02733.7 -0925.4  
111 8.5 02821.7 -0900.5  
112 9.1 02839.3 -0936.7  
113 9.2 02901.7 -0911.1  
114 9.4 02941.1 -0928.4  
115 9.8 02948.7 -0954.2  
116 9.8 02959.7 -0927.5  
117 8.0 03017.6 -0952.2  
118 9.8 03023.3 -0904.2  
  
119 9.1 03041.8 -0938.8  
120 9.4 03057.3 -0940.4  
121 9.3 03106.8 -0925.2  
122 9.1 03112.0 -0905.3  
123 9.8 03120.9 -0946.2  
124 10. 03129.8 -0941.7  
125 9.3 03158.6 -0953.1  
126 10. 03211.1 -0946.3  
127 10. 03236.5 -0907.1  
128 10. 03242.6 -0912.9  
  
129 8.7 03251.0 -0943.7  
130 9.6 03315.7 -0959.5  
131 9.4 03408.6 -0948.0  
132 9.1 03414.8 -0917.0  
133 9.5 03445.0 -0946.5  
134 9.3 03455.4 -0920.9  
135 9.8 03458.2 -0921.8  
136 9.2 03458.6 -0958.0  
137 9.4 03527.5 -0908.8  
138 9.5 03552.2 -0934.6  
  
139 9.6 03610.8 -0915.5  
140 9.3 03636.9 -0950.9  
141 9.3 03726.5 -0900.9  
142 9.5 03747.0 -0939.5  
143 9.5 03812.0 -0911.2  
144 9.4 03816.0 -0917.3  
145 9.5 03831.1 -0913.0  
146 9.4 03844.5 -0932.1  
147 10. 03849.0 -0943.5  
148 9.3 03849.2 -0933.2  
  
149 10. 03851.3 -0950.8  
150 8.9 03853.5 -0907.4  
151 9.8 03921.4 -0915.5  
152 9.3 03958.6 -0907.6  
153 8.8 04008.2 -0912.7  
154 9.4 04029.1 -0915.0  
155 9.6 04043.5 -0906.3  
156 9.3 04056.7 -0922.0  
157 10. 04124.7 -0905.5  
158 10. 04140.2 -0940.8  
  
159 9.4 04140.9 -0951.4  
160 9.3 04154.7 -0924.6  
161 9.5 04242.3 -0917.9  
162 9.8 04310.1 -0908.5  
163 9.4 04313.0 -0959.2  
164 9.4 04314.7 -0916.7  
165 9.8 04319.1 -0901.7  
166 9.6 04320.9 -0921.8  
167 9.3 04336.1 -0953.1  
168 9.5 04356.4 -0923.2  
  
169 9.3 04359.6 -0905.5  
170 9.3 04413.9 -0902.2  
171 7.6 04417.9 -0936.5  
172 10. 04424.5 -0931.0  
173 10. 04425.8 -0903.6  
174 9.8 04524.9 -0949.8  
175 8.8 04526.7 -0907.2  
176 9.1 04537.8 -0942.5  
177 10. 04540.2 -0951.4  
178 9.8 04609.9 -0921.7  
  
179 9.8 04622.8 -0913.3  
180 8.5 04623.8 -0905.8  
181 6.2 04659.0 -0931.2  
182 9.5 04748.3 -0927.2  
183 9.4 04814.0 -0930.0  
184 9.3 04826.6 -0924.3  
185 9.8 04830.3 -0911.8  
186 10. 04902.0 -0930.9  
187 9.9 04907.4 -0915.1  
188 9.2 04908.8 -0959.6

189 9.5 04923.8 -0906.8  
190 10. 04941.9 -0913.4  
191 9.6 05006.7 -0923.9  
192 9.7 05026.5 -0910.1  
193 9.5 05042.3 -0905.0  
194 9.9 05052.7 -0925.9  
195 9.5 05137.8 -0925.0  
196 7.0 05232.0 -0906.2  
197 8.9 05251.7 -0936.6  
198 9.8 05257.4 -0907.5  
  
199 9.7 05258.3 -0933.8  
200 9.4 05305.4 -0943.0  
201 10. 05328.1 -0955.9  
202 9.3 05344.5 -0918.7  
203 9.4 05351.5 -0955.2  
204 9.5 05443.0 -0956.4  
205 9.0 05449.2 -0938.3  
206 9.1 05504.9 -0910.3  
207 9.8 05556.1 -0943.9  
208 10. 05618.6 -0953.1  
  
209 9.7 05628.7 -0933.1  
210 8.2 05634.6 -0954.3  
211 9.1 05645.1 -0924.8  
212 9.6 05654.4 -0925.4  
213 9.1 05703.8 -0928.9  
214 9.8 05714.0 -0907.3  
215 9.8 05724.5 -0907.3  
216 9.5 05726.2 -0915.7  
217 9.8 05727.6 -0956.8  
218 7.5 05841.1 -0926.3  
  
219 9.6 05922.2 -0952.6  
220 8.2 05926.2 -0928.2  
221 7.8 10030.0 -0900.4  
222 10. 10052.0 -0957.6  
223 10. 10115.6 -0950.3  
224 10. 10138.2 -0954.8  
225 9.5 10139.0 -0922.1  
226 9.7 10235.2 -0924.7  
227 6.3 10256.1 -0940.7  
228 9.5 10323.6 -0919.7  
  
229 9.3 10331.3 -0928.4  
230 10. 10333.0 -0925.9  
231 10. 10341.4 -0959.5  
232 9.7 10357.7 -0907.1  
233 9.5 10406.9 -0926.9  
234 9.5 10424.4 -0944.0  
235 9.5 10424.5 -0934.3  
236 10. 10508.0 -0909.5  
237 8.0 10511.4 -0959.4  
238 10. 10517.0 -0923.8  
  
239 9.0 10526.6 -0936.6  
240 9.0 10540.5 -0909.9  
241 8.8 10627.2 -0904.9  
242 9.8 10631.8 -0912.5  
243 10. 10700.1 -0937.4  
244 9.7 10709.8 -0945.4  
245 10. 10710.0 -0908.1  
246 8.9 10743.4 -0954.1  
247 9.8 10814.6 -0933.8  
248 9.5 10816.7 -0943.8  
  
249 9.7 10935.8 -0905.3  
250 9.2 10938.4 -0912.7  
251 9.6 10952.1 -0926.9  
252 9.5 11004.3 -0910.6  
253 9.5 11055.0 -0952.0  
254 9.4 11057.9 -0937.9  
255 9.8 11138.4 -0911.4  
256 8.5 11146.6 -0941.0  
257 9.8 11155.8 -0940.2  
258 9.3 11218.2 -0932.3  
  
259 9.3 11222.2 -0929.0  
260 9.1 11321.9 -0910.9  
261 9.8 11406.6 -0928.5  
262 9.1 11423.9 -0923.5  
263 9.8 11425.4 -0911.6  
264 9.3 11515.6 -0947.8  
265 9.1 11522.4 -0916.0  
266 9.1 11550.0 -0911.5  
267 9.0 11602.4 -0948.2  
268 9.8 11610.2 -0933.0  
  
269 9.3 11706.5 -0915.1  
270 9.4 11733.3 -0923.4  
271 9.5 11803.7 -0951.2  
272 7.0 11840.0 -0915.8  
273 9.8 11850.9 -0929.6  
274 9.7 11853.3 -0912.6  
275 9.4 11917.9 -0911.7  
276 8.5 11933.2 -0920.3  
277 9.4 12004.4 -0957.4  
278 9.7 12035.0 -0906.0

279 9.2 12036.8 -0932.7  
280 9.8 12050.7 -0900.4  
281 9.7 12054.5 -0901.5  
282 9.2 12054.8 -0953.0  
283 9.1 12109.5 -0908.1  
284 9.5 12204.3 -0918.9  
285 9.3 12226.0 -0931.8  
286 9.4 12229.5 -0933.0  
287 9.6 12258.4 -0947.6  
288 10. 12322.5 -0946.0  
  
289 10. 12331.9 -0901.5  
290 10. 12339.5 -0944.8  
291 9.5 12345.1 -0904.4  
292 9.9 12418.8 -0940.5  
293 9.8 12419.6 -0942.9  
294 10. 12423.7 -0954.2  
295 10. 12510.4 -0948.8  
296 9.8 12517.9 -0932.3  
297 9.3 12519.2 -0943.8  
298 7.0 12549.6 -0945.8  
  
299 9.5 12555.2 -0914.7  
300 9.8 12555.8 -0901.0  
301 8.0 12705.2 -0911.9  
302 9.2 12716.6 -0903.6  
303 9.3 12725.5 -0915.8  
304 9.8 12809.4 -0902.9  
305 9.4 12811.6 -0931.8  
306 9.0 12908.4 -0937.3  
307 9.1 12932.1 -0907.3  
308 9.9 12948.5 -0929.8  
  
309 10. 13000.3 -0956.7  
310 9.9 13020.8 -0954.1  
311 10. 13033.3 -0917.0  
312 10. 13113.7 -0930.4  
313 8.5 13123.3 -0915.1  
314 9.8 13141.7 -0900.2  
315 9.8 13205.9 -0930.5  
316 8.2 13304.4 -0958.6  
317 9.8 13341.8 -0909.0  
318 9.3 13345.1 -0929.9  
  
319 10. 13357.7 -0907.2  
320 9.9 13416.2 -0949.9  
321 8.8 13448.8 -0931.2  
322 8.3 13452.0 -0905.7  
323 10. 13454.9 -0931.5  
324 7.0 13519.1 -0923.9  
325 10. 13525.5 -0901.0  
326 9.4 13528.0 -0903.9  
327 9.0 13541.8 -0948.0  
328 9.1 13613.3 -0908.3  
  
329 7.8 13638.8 -0923.5  
330 9.1 13659.1 -0921.0  
331 9.7 13729.5 -0933.6  
332 10. 13803.0 -0932.7  
333 9.9 13825.1 -0920.9  
334 10. 13827.9 -0953.6  
335 9.6 13911.4 -0952.3  
336 9.8 13931.5 -0913.4  
337 9.6 13933.1 -0922.1  
338 8.5 13956.4 -0909.6  
  
339 10. 14032.2 -0939.5  
340 10. 14033.0 -0953.4  
341 9.8 14043.9 -0908.7  
342 8.2 14103.0 -0958.3  
343 8.5 14140.9 -0905.0  
344 9.4 14252.6 -0936.0  
345 9.8 14331.1 -0914.7  
346 9.2 14406.7 -0958.5  
347 9.6 14435.7 -0920.5  
348 9.5 14504.1 -0933.3  
  
349 9.5 14538.2 -0923.0  
350 10. 14544.2 -0936.0  
351 9.9 14604.0 -0906.4  
352 9.1 14616.0 -0933.3  
353 8.3 14647.3 -0922.0  
354 9.5 14724.7 -0922.5  
355 9.0 14739.6 -0911.1  
356 8.7 14821.6 -0919.1  
357 9.5 14827.1 -0910.7  
358 10. 14916.4 -0928.5  
  
359 9.3 14933.6 -0906.8  
360 9.8 14941.8 -0931.8  
361 9.5 14947.1 -0932.1  
362 9.5 14957.5 -0942.2  
363 9.8 15021.2 -0913.1  
364 9.0 15039.3 -0923.3  
365 9.2 15058.7 -0915.8  
366 9.5 15101.7 -0917.2  
367 8.8 15105.0 -0909.2  
368 9.7 15109.8 -0905.8

369 9.5 15111.6 -0959.8  
370 9.2 15121.1 -0958.0  
371 9.4 15141.5 -0932.5  
372 8.5 15153.9 -0941.5  
373 8.5 15158.7 -0904.7  
374 9.8 15229.0 -0911.1  
375 9.7 15231.1 -0927.3  
376 9.5 15234.4 -0921.5  
377 9.1 15239.3 -0917.3  
378 8.9 15241.2 -0950.7  
  
379 9.6 15310.3 -0926.5  
380 5.8 15315.3 -0929.1  
381 9.3 15327.2 -0908.2  
382 7.3 15337.8 -0910.6  
383 9.3 15351.4 -0944.9  
384 9.6 15354.7 -0912.0  
385 9.1 15524.3 -0955.4  
386 10. 15544.8 -0916.3  
387 9.1 15552.4 -0937.0  
388 9.0 15552.8 -0920.2  
  
389 9.0 15602.3 -0956.2  
390 9.5 15615.3 -0929.1  
391 9.0 15621.5 -0917.8  
392 8.6 15631.2 -0912.2  
393 9.5 15639.0 -0926.1  
394 9.8 15646.8 -0917.8  
395 9.0 15714.0 -0949.5  
396 10. 15740.9 -0959.2  
397 8.5 15755.1 -0917.7  
398 9.3 15816.7 -0944.0  
  
399 8.7 15818.3 -0930.4  
400 9.1 15841.1 -0938.9  
401 6.5 15904.9 -0953.5  
402 9.4 15938.9 -0927.7  
403 6.7 15952.0 -0917.9  
404 9.1 20046.7 -0944.5  
405 9.3 20055.7 -0933.1  
406 9.4 20108.7 -0950.6  
407 10. 20119.5 -0920.6  
408 9.5 20125.1 -0957.3  
  
409 9.7 20137.3 -0929.1  
410 10. 20202.5 -0951.9  
411 9.5 20205.9 -0917.5  
412 9.2 20224.9 -0950.1  
413 9.0 20239.4 -0923.3  
414 8.0 20306.3 -0925.8  
415 9.4 20307.4 -0918.7  
416 9.5 20310.7 -0932.8  
417 9.0 20406.7 -0926.0  
418 9.1 20410.0 -0954.1  
  
419 8.7 20437.1 -0936.9  
420 9.6 20450.4 -0910.2  
421 9.8 20451.9 -0929.2  
422 10. 20510.8 -0949.7  
423 9.5 20525.1 -0923.6  
424 9.6 20536.8 -0901.2  
425 9.4 20604.6 -0955.0  
426 9.5 20619.2 -0925.4  
427 8.4 20626.3 -0930.2  
428 9.1 20643.0 -0912.8  
  
429 6.7 20645.5 -0944.4  
430 9.8 20735.7 -0959.8  
431 8.8 20833.3 -0941.5  
432 9.4 20855.5 -0930.9  
433 8.8 20857.9 -0934.7  
434 9.8 20933.9 -0900.8  
435 9.5 20934.2 -0923.5  
436 9.1 21024.5 -0950.2  
437 9.8 21031.9 -0904.5  
438 9.8 21100.1 -0937.1  
  
439 9.4 21119.2 -0913.9  
440 7.5 21119.3 -0901.7  
441 9.4 21205.0 -0902.7  
442 9.5 21257.9 -0926.5  
443 9.5 21323.3 -0950.6  
444 10. 21334.2 -0949.3  
445 8.5 21350.9 -0924.0  
446 10. 21433.9 -0956.9  
447 9.3 21434.4 -0928.3  
448 10. 21444.4 -0956.3  
  
449 9.8 21452.8 -0953.5  
450 9.0 21456.5 -0935.5  
451 9.1 21536.4 -0918.7  
452 9.0 21550.7 -0907.0  
453 9.3 21557.4 -0916.0  
454 9.5 21558.3 -0908.9  
455 8.3 21708.9 -0916.3  
456 8.4 21744.7 -0939.9  
457 9.0 21820.8 -0949.1  
458 10. 21825.1 -0936.6

-09 458 2h18m



-09 459 2h18m

459 8.6 21840.0 -0953.2  
460 9.7 21847.8 -0915.3  
461 8.0 21849.9 -0934.4  
462 8.7 21923.2 -0934.1  
463 10. 22010.8 -0910.7  
464 9.3 22014.8 -0931.0  
465 10. 22043.9 -0950.4  
466 10. 22128.0 -0938.7  
467 8.5 22136.7 -0924.2  
468 9.8 22230.0 -0933.9  
  
469 10. 22317.1 -0947.2  
470 9.4 22320.8 -0938.1  
471 9.4 22340.6 -0924.2  
472 9.5 22351.2 -0951.2  
473 10. 22423.1 -0942.6  
474 9.8 22512.5 -0921.3  
475 9.6 22514.8 -0905.7  
476 8.9 22518.6 -0936.4  
477 9.4 22531.5 -0907.5  
478 8.2 22548.4 -0920.7  
  
479 10. 22549.5 -0926.2  
480 9.3 22617.4 -0938.7  
481 9.1 22715.2 -0920.0  
482 10. 22759.5 -0959.0  
483 9.3 22816.7 -0921.6  
484 6.7 22818.7 -0959.1  
485 9.1 22825.9 -0925.5  
486 8.5 22844.6 -0912.2  
487 9.7 22920.8 -0955.6  
488 9.3 22921.5 -0957.5  
  
489 9.5 22946.7 -0945.7  
490 9.4 22951.4 -0904.0  
491 9.0 22954.5 -0944.0  
492 9.3 22956.3 -0929.5  
493 10. 23105.1 -0933.1  
494 9.4 23128.6 -0912.7  
495 9.4 23148.3 -0924.7  
496 9.0 23150.0 -0900.8  
497 7.2 23153.3 -0933.0  
498 9.0 23215.2 -0947.6  
  
499 9.5 23231.8 -0932.1  
500 8.3 23351.4 -0929.7  
501 9.8 23358.4 -0937.3  
502 9.3 23501.7 -0954.5  
503 9.1 23515.3 -0917.5  
504 9.7 23519.8 -0954.9  
505 9.6 23539.4 -0915.3  
506 9.9 23540.9 -0957.7  
507 10. 23556.3 -0935.9  
508 10. 23574.4 -0949.3  
  
509 8.4 23532.5 -0900.1  
510 10. 23533.3 -0954.8  
511 9.3 23551.1 -0929.1  
512 9.8 23564.1 -0924.4  
513 9.4 23581.4 -0959.3  
514 8.6 23585.5 -0947.8  
515 10. 23700.8 -0951.4  
516 9.4 23701.9 -0917.5  
517 10. 23709.5 -0951.5  
518 10. 23726.1 -0940.8  
  
519 9.6 23736.5 -0950.0  
520 9.4 23738.3 -0916.4  
521 9.2 23739.9 -0923.2  
522 9.5 23809.8 -0917.9  
523 8.8 23814.0 -0956.9  
524 9.7 23824.7 -0929.5  
525 9.1 23838.5 -0927.1  
526 9.3 23855.4 -0919.5  
527 9.5 23859.9 -0904.6  
528 9.6 23936.1 -0907.0  
  
529 8.0 24004.6 -0934.2  
530 9.5 24053.8 -0911.3  
531 9.0 24139.9 -0942.0  
532 9.9 24146.8 -0952.3  
533 9.8 24207.8 -0903.1  
534 10. 24214.7 -0909.9  
535 9.4 24234.3 -0918.1  
536 9.5 24246.8 -0931.2  
537 9.8 24349.3 -0919.4  
538 10. 24419.9 -0917.8  
  
539 9.9 24444.5 -0953.3  
540 9.5 24517.0 -0925.1  
541 10. 24531.5 -0950.4  
542 9.8 24540.3 -0934.2  
543 8.7 24612.0 -0931.8  
544 7.8 24622.2 -0926.5  
545 9.5 24630.9 -0948.3  
546 9.5 24654.4 -0958.8  
547 9.8 24709.3 -0948.6  
548 9.7 24728.1 -0930.4

549 9.0 24742.5 -0947.0  
550 9.7 24756.7 -0900.3  
551 9.5 24919.4 -0918.3  
552 9.8 24920.0 -0936.1  
553 3.7 24921.0 -0928.6  
553a 9.7 24921.5 -0906.2  
554 9.5 24928.9 -0913.3  
555 9.5 24939.5 -0923.1  
556 9.5 24940.6 -0925.2  
557 9.5 25037.9 -0943.1  
  
558 8.4 25122.0 -0912.6  
559 9.5 25138.4 -0937.5  
560 9.0 25144.3 -0903.6  
561 9.8 25148.4 -0911.9  
562 9.5 25204.6 -0933.2  
563 9.7 25205.5 -0957.2  
564 8.8 25207.9 -0942.4  
565 9.0 25222.7 -0949.1  
566 8.9 25227.4 -0912.2  
567 9.5 25228.7 -0933.4  
  
568 8.1 25235.3 -0959.8  
569 9.8 25237.0 -0959.7  
570 9.4 25304.0 -0943.6  
571 8.9 25306.1 -0948.6  
572 8.5 25311.4 -0937.1  
573 9.4 25316.0 -0920.3  
574 9.8 25344.2 -0900.9  
575 9.7 25405.6 -0942.2  
576 9.5 25431.6 -0945.3  
577 9.5 25454.1 -0926.2  
  
578 10. 25536.9 -0949.3  
579 9.4 25556.3 -0914.7  
580 9.6 25607.0 -0906.0  
581 9.8 25631.6 -0929.3  
582 9.0 25701.8 -0923.0  
583 8.1 25708.9 -0901.9  
584 8.6 25753.4 -0902.3  
585 8.5 25812.4 -0930.9  
586 9.5 25818.9 -0903.2  
587 9.3 25821.0 -0925.1  
  
588 9.2 25844.5 -0911.0  
589 9.4 25907.9 -0930.1  
590 9.3 25919.4 -0940.0  
591 3.0 25930.3 -0901.2  
592 8.1 25924.0 -0909.1  
593 10. 25933.0 -0906.3  
594 9.8 25946.7 -0925.0  
595 8.8 25949.5 -0947.1  
596 8.8 30045.1 -0930.4  
597 9.1 30050.8 -0927.2  
  
598 9.9 30119.5 -0907.5  
599 8.8 30148.4 -0900.4  
600 9.6 30223.2 -0953.1  
601 9.3 30238.5 -0908.9  
602 9.5 30301.0 -0902.6  
603 8.9 30317.9 -0941.3  
604 10. 30342.1 -0913.4  
605 10. 30353.6 -0909.6  
606 8.6 30412.2 -0925.5  
607 9.8 30451.0 -0948.4  
  
608 10. 30500.6 -0912.8  
609 9.6 30505.2 -0916.6  
610 9.2 30517.3 -0911.5  
611 8.7 30532.2 -0915.4  
612 10. 30535.5 -0942.4  
613 9.5 30625.6 -0947.5  
614 10. 30632.0 -0938.3  
615 9.6 30640.5 -0943.5  
616 9.1 30653.6 -0946.8  
617 8.8 30656.8 -0924.7  
  
618 8.2 30657.1 -0906.8  
619 9.0 30755.3 -0917.1  
620 9.9 30800.8 -0919.6  
621 9.6 30824.3 -0955.0  
622 7.0 30829.2 -0918.6  
623 10. 30844.7 -0913.5  
624 5.0 30848.0 -0921.3  
625 9.0 30901.6 -0948.0  
626 9.6 30908.6 -0932.2  
627 6.5 30934.1 -0941.5  
  
628 9.2 30935.7 -0945.3  
629 9.0 30941.9 -0928.5  
630 9.7 31025.5 -0938.6  
631 8.9 31041.0 -0936.9  
632 9.8 31102.6 -0901.5  
633 8.8 31104.9 -0959.4  
634 9.5 31125.1 -0950.9  
635 8.2 31147.2 -0907.9  
636 9.7 31149.9 -0921.1  
637 9.9 31151.6 -0941.5

638 9.9 31201.9 -0958.5  
639 9.5 31216.1 -0943.0  
640 9.8 31253.4 -0921.7  
641 9.8 31300.3 -0932.2  
642 9.7 31302.1 -0943.9  
643 9.0 31355.3 -0929.4  
644 9.4 31419.8 -0945.4  
645 9.6 31424.9 -0939.9  
646 9.8 31433.3 -0912.8  
647 9.1 31443.4 -0953.0  
  
648 9.8 31451.1 -0933.1  
649 8.5 31521.2 -0942.1  
650 8.6 31523.9 -0950.6  
651 10. 31546.0 -0959.0  
652 9.9 31550.0 -0924.6  
653 8.9 31602.9 -0937.6  
654 8.6 31719.6 -0925.4  
655 8.8 31804.2 -0928.1  
656 9.9 31809.3 -0945.3  
657 9.6 31818.3 -0905.5  
  
658 9.8 31848.9 -0917.6  
659 8.9 31900.5 -0957.4  
660 9.8 31905.7 -0902.9  
661 8.8 31910.4 -0929.4  
662 9.2 31931.1 -0933.3  
663 9.0 31938.4 -0952.8  
664 9.4 31941.4 -0930.4  
665 10. 32005.0 -0959.8  
666 10. 32027.9 -0914.5  
667 9.4 32039.5 -0955.2  
  
668 9.4 32039.6 -0912.0  
669 9.7 32056.3 -0913.7  
670 9.0 32056.3 -0902.6  
671 9.1 32100.9 -0909.7  
672 9.7 32111.6 -0952.9  
673 9.7 32111.8 -0937.4  
674 9.5 32150.7 -0900.4  
675 9.4 32150.9 -0933.4  
676 9.4 32206.3 -0942.3  
677 9.1 32207.5 -0950.4  
  
678 9.8 32209.9 -0910.2  
679 9.4 32220.8 -0929.8  
680 10. 32224.9 -0903.7  
681 10. 32226.1 -0922.7  
682 10. 32246.0 -0918.6  
683 9.3 32248.0 -0922.7  
684 10. 32315.4 -0947.5  
685 9.1 32343.6 -0923.2  
686 9.0 32351.8 -0919.4  
687 9.4 32352.0 -0950.5  
  
688 9.5 32411.5 -0952.5  
689 9.4 32450.7 -0936.3  
690 9.0 32501.1 -0952.8  
691 8.6 32501.3 -0918.3  
692 9.2 32502.3 -0939.5  
693 7.5 32522.4 -0905.5  
694 10. 32533.8 -0938.8  
695 9.6 32539.9 -0946.2  
696 10. 32600.7 -0926.7  
697 3.3 32603.6 -0956.7  
  
698 9.0 32637.1 -0950.6  
699 10. 32643.5 -0943.5  
700 9.8 32644.9 -0935.2  
701 9.0 32704.3 -0936.1  
702 9.1 32719.9 -0940.8  
703 9.4 32744.5 -0944.9  
704 9.8 32749.8 -0933.9  
705 9.8 32750.4 -0924.0  
706 9.3 32814.7 -0901.5  
707 8.8 32816.1 -0915.3  
  
708 8.8 32844.2 -0928.7  
709 8.4 32849.3 -0922.3  
710 9.3 32855.0 -0909.9  
711 10. 32858.9 -0907.0  
712 9.5 32936.7 -0924.2  
713 9.8 33002.4 -0938.5  
714 9.5 33016.6 -0933.9  
715 9.6 33021.2 -0925.0  
716 10. 33029.3 -0929.6  
717 8.7 33218.3 -0928.4  
  
718 9.5 33304.2 -0952.3  
719 7.0 33310.3 -0930.7  
720 9.5 33310.7 -0949.9  
721 9.9 33329.3 -0922.6  
722 8.8 33348.7 -0920.1  
723 9.2 33406.3 -0927.1  
724 8.5 33422.0 -0939.8  
725 10. 33425.5 -0901.3  
726 9.7 33450.4 -0917.1  
727 10. 33452.2 -0952.0

728 9.5 33454.7 -0931.4  
729 9.7 33512.2 -0922.0  
730 9.7 33515.2 -0921.1  
731 9.6 33541.1 -0932.8  
732 9.2 33555.4 -0942.2  
733 8.3 33556.3 -0919.2  
734 9.7 33630.3 -0919.0  
735 10. 33645.1 -0908.1  
736 9.0 33656.5 -0947.9  
737 9.1 33721.4 -0933.5  
  
738 8.3 33731.6 -0903.1  
739 9.9 33804.3 -0955.7  
740 9.0 33816.7 -0929.3  
741 8.0 33857.9 -0927.7  
742 9.2 33906.2 -0907.3  
743m 8.2 33938.3 -0954.2  
744 10. 33939.3 -0922.9  
745 8.8 33952.3 -0950.2  
746 9.3 34019.1 -0924.5  
747 10. 34033.0 -0956.6  
  
748 8.8 34036.6 -0914.2  
749 8.8 34066.2 -0903.9  
750 10. 34108.8 -0919.8  
751 9.3 34114.8 -0931.0  
752 10. 34133.4 -0949.7  
753 10. 34234.5 -0932.5  
754 9.2 34239.0 -0954.9  
755 9.5 34251.7 -0946.2  
756 9.7 34303.8 -0928.8  
757 9.1 34308.7 -0905.4  
  
758 9.2 34320.2 -0941.7  
759 9.7 34351.2 -0934.8  
760 8.9 34400.6 -0902.2  
761 9.1 34426.9 -0920.6  
762 9.5 34450.2 -0927.7  
763 9.2 34450.2 -0920.5  
764 9.2 34530.8 -0909.9  
765 9.8 34545.5 -0930.3  
766 9.2 34548.9 -0914.4  
767 9.4 34609.7 -0903.5  
  
768 9.2 34643.2 -0929.5  
769 9.5 34652.6 -0936.2  
770 9.1 34655.3 -0941.5  
771 9.7 34735.2 -0924.9  
772 9.9 34735.7 -0903.8  
773 7.0 34738.2 -0957.0  
774 9.2 34739.5 -0907.2  
775 8.7 34811.2 -0921.1  
776 10. 34819.3 -0952.6  
777 9.3 34837.8 -0949.1  
  
778 10. 34838.0 -0917.5  
779 9.0 34838.4 -0907.9  
780 9.3 34933.7 -0935.5  
781 10. 35017.9 -0909.7  
782 8.7 35110.5 -0919.4  
783 8.1 35123.4 -0925.1  
784 10. 35132.1 -0934.4  
785 9.0 35132.9 -0943.0  
786 9.1 35145.7 -0920.5  
787 9.8 35223.7 -0902.3  
  
788 10. 35240.5 -0955.5  
789 10. 35241.3 -0958.9  
790 9.3 35246.4 -0942.6  
791 9.0 35312.1 -0944.6  
792 9.3 35322.1 -0946.9  
793 9.0 35400.3 -0925.6  
794 8.4 35408.8 -0959.8  
795 10. 35409.5 -0953.2  
796 9.4 35435.5 -0923.1  
797 9.4 35437.0 -0957.9  
  
798 9.9 35501.6 -0904.4  
799 9.7 35515.6 -0932.6  
800 9.3 35551.7 -0910.7  
801 8.4 35604.1 -0909.6  
802 10. 35637.8 -0958.3  
803 9.4 35639.3 -0919.7  
804 9.5 35648.8 -0957.5  
805 9.4 35743.4 -0914.3  
806 9.0 35752.6 -0928.7  
807 8.0 35808.7 -0953.6  
  
808 9.5 35830.7 -0950.4  
809 9.4 35838.2 -0927.0  
810 9.5 35855.4 -0958.6  
811 6.3 35857.8 -0914.7  
812 9.1 35909.7 -0911.4  
813 9.0 35916.6 -0906.3  
814 9.8 40004.9 -0902.8  
815 8.8 40017.8 -0909.2  
816 9.8 40023.7 -0903.4  
817 9.5 40031.0 -0929.1

-09 817 4h00m



-09 818 4h00m

-09 1177 5h27m

|                         |                         |                          |                          |
|-------------------------|-------------------------|--------------------------|--------------------------|
| 818 9.8 40042.9 -0955.7 | 908 9.3 42245.4 -0912.8 | 998 9.0 44245.4 -0910.8  | 1088 9.2 50332.5 -0915.3 |
| 819 9.0 40047.2 -0950.2 | 909 9.3 42305.3 -0931.9 | 999 10. 44258.6 -0936.2  | 1089 9.3 50346.6 -0935.5 |
| 820 9.3 40047.4 -0904.1 | 910 9.3 42320.4 -0934.1 | 1000 9.1 44304.4 -0951.1 | 1090 9.8 50412.4 -0900.2 |
| 821 10. 40057.6 -0942.5 | 911 9.4 42334.2 -0921.8 | 1001 9.7 44338.4 -0927.4 | 1091 9.0 50413.5 -0935.1 |
| 822 9.0 40125.5 -0922.9 | 912 9.2 42359.1 -0900.3 | 1002 8.1 44349.3 -0948.3 | 1092 9.5 50428.4 -0911.8 |
| 823 7.6 40147.7 -0903.3 | 913 9.5 42407.4 -0949.1 | 1003 9.9 44354.2 -0941.8 | 1093 9.5 50452.5 -0917.6 |
| 824 9.7 40221.9 -0949.7 | 914 10. 42421.7 -0955.3 | 1004 9.3 44359.2 -0911.4 | 1094 8.0 50459.0 -0916.2 |
| 825 8.7 40228.8 -0950.4 | 915 9.2 42433.0 -0951.3 | 1005 9.3 44407.4 -0950.5 | 1095 8.5 50505.3 -0907.3 |
| 826 9.8 40231.4 -0925.2 | 916 9.8 42433.0 -0930.4 | 1006 9.7 44423.1 -0939.8 | 1096 9.5 50508.0 -0958.0 |
| 827 9.2 40234.6 -0901.0 | 917 9.1 42456.6 -0909.5 | 1007 9.5 44432.0 -0900.5 | 1097 9.0 50541.6 -0927.5 |
| 828 9.1 40250.5 -0958.8 | 918 9.0 42459.1 -0909.6 | 1008 9.5 44435.5 -0931.9 | 1098 9.0 50551.7 -0933.8 |
| 829 9.3 40305.8 -0908.7 | 919 9.5 42510.6 -0956.0 | 1009 10. 44529.5 -0955.3 | 1099 8.4 50604.4 -0900.1 |
| 830 9.6 40310.9 -0926.1 | 920 9.0 42511.4 -0936.7 | 1010 9.4 44536.7 -0910.6 | 1100 9.5 50610.9 -0901.8 |
| 831 9.8 40311.5 -0914.4 | 921 8.8 42518.8 -0955.2 | 1011 9.3 44543.2 -0909.0 | 1101 9.6 50623.1 -0930.2 |
| 832 9.4 40318.4 -0934.2 | 922 9.6 42539.4 -0951.8 | 1012 9.8 44605.6 -0932.8 | 1102 9.2 50646.3 -0905.9 |
| 833 9.0 40319.0 -0911.5 | 923 10. 42546.7 -0956.2 | 1013 8.2 44610.4 -0948.2 | 1103 9.5 50731.0 -0957.1 |
| 834 9.1 40327.6 -0943.5 | 924 9.3 42600.8 -0919.1 | 1014 9.6 44628.2 -0907.2 | 1104 9.5 50748.1 -0929.0 |
| 835 9.3 40328.7 -0945.3 | 925 9.1 42624.1 -0947.2 | 1015 9.3 44629.7 -0939.7 | 1105 9.3 50755.1 -0932.3 |
| 836 10. 40332.8 -0926.7 | 926 9.8 42624.9 -0925.5 | 1016 9.0 44632.2 -0907.8 | 1106 10. 50803.7 -0926.4 |
| 837 6.0 40348.7 -0911.8 | 927 9.0 42631.6 -0945.9 | 1017 9.7 44638.8 -0930.0 | 1107 9.0 50834.6 -0937.7 |
| 838 9.5 40353.1 -0939.2 | 928 9.5 42704.7 -0951.8 | 1018 9.0 44644.5 -0953.5 | 1108 9.3 50842.6 -0941.7 |
| 839 9.1 40414.0 -0957.7 | 929 9.5 42711.9 -0919.1 | 1019 9.4 44709.5 -0930.9 | 1109 9.2 50854.3 -0902.2 |
| 840 9.9 40450.4 -0953.0 | 930 5.0 42715.2 -0916.3 | 1020 9.1 44711.4 -0906.1 | 1110 9.0 50908.0 -0958.5 |
| 841 10. 40452.3 -0950.0 | 931 9.7 42718.2 -0906.6 | 1021 9.1 44718.5 -0934.3 | 1111 9.5 50949.1 -0958.5 |
| 842 9.4 40455.1 -0912.3 | 932 9.9 42745.1 -0917.4 | 1022 9.4 44758.9 -0914.4 | 1112 9.1 51005.8 -0916.8 |
| 843 7.0 40456.8 -0913.0 | 933 9.4 42815.7 -0932.4 | 1023 9.1 44823.6 -0947.0 | 1113 9.5 51020.0 -0916.4 |
| 844 8.5 40505.1 -0939.1 | 934 8.6 42841.6 -0928.5 | 1024 10. 44853.6 -0959.6 | 1114 9.9 51033.7 -0927.1 |
| 845 9.8 40522.1 -0938.0 | 935 9.9 42849.3 -0959.3 | 1025 9.3 44904.0 -0919.6 | 1115 9.1 51055.7 -0935.6 |
| 846 9.2 40533.7 -0929.5 | 936 9.8 42852.2 -0954.9 | 1026 9.8 44925.5 -0955.9 | 1116 9.5 51056.5 -0927.1 |
| 847 9.4 40541.2 -0957.0 | 937 9.4 42917.6 -0920.1 | 1027 9.8 44927.6 -0934.6 | 1117 9.5 51117.5 -0933.0 |
| 848 9.3 40619.9 -0954.1 | 938 10. 42931.5 -0937.2 | 1028 9.5 44928.4 -0914.7 | 1118 9.3 51144.6 -0906.1 |
| 849 8.8 40622.4 -0950.7 | 939 9.1 42940.9 -0915.6 | 1029 9.5 44931.7 -0908.9 | 1119 9.0 51149.6 -0912.4 |
| 850 9.8 40624.5 -0934.9 | 940 9.6 43021.9 -0932.4 | 1030 9.3 45006.4 -0904.0 | 1120 9.3 51205.1 -0958.4 |
| 851 9.6 40641.0 -0957.0 | 941 10. 43034.4 -0901.0 | 1031 9.3 45006.8 -0910.6 | 1121 9.4 51211.7 -0923.6 |
| 852 9.0 40651.8 -0943.6 | 942 9.5 43035.3 -0946.4 | 1032 8.3 45021.2 -0939.1 | 1122 9.5 51211.7 -0919.1 |
| 853 9.2 40715.9 -0950.7 | 943 9.8 43044.6 -0957.3 | 1033 9.0 45022.1 -0931.2 | 1123 9.5 51219.5 -0902.5 |
| 854 9.0 40726.8 -0913.0 | 944 8.5 43103.2 -0920.7 | 1034 9.4 45027.0 -0921.8 | 1124 9.3 51226.0 -0955.7 |
| 855 9.1 40813.9 -0915.9 | 945 9.4 43119.6 -0912.4 | 1035 9.8 45035.1 -0954.3 | 1125 8.5 51236.7 -0935.8 |
| 856 8.4 40817.9 -0951.5 | 946 9.1 43131.7 -0928.2 | 1036 9.5 45043.8 -0913.0 | 1126 8.0 51242.0 -0951.8 |
| 857 9.5 40836.9 -0917.2 | 947 7.8 43139.1 -0938.0 | 1037 9.8 45100.4 -0947.1 | 1127 9.8 51258.3 -0940.4 |
| 858 9.8 40941.0 -0925.1 | 948 8.7 43140.2 -0920.0 | 1038 9.5 45104.1 -0956.0 | 1128 9.5 51316.1 -0924.5 |
| 859 8.3 40943.8 -0948.8 | 949 10. 43204.7 -0900.7 | 1039 9.0 45112.6 -0958.7 | 1129 10. 51324.6 -0929.9 |
| 860 9.3 41016.7 -0927.8 | 950 8.8 43230.6 -0914.0 | 1040 9.0 45117.3 -0954.8 | 1130 9.0 51330.8 -0942.5 |
| 861 9.2 41047.1 -0946.1 | 951 9.3 43236.6 -0900.1 | 1041 9.8 45140.2 -0941.8 | 1131 9.2 51333.7 -0918.6 |
| 862 9.2 41101.4 -0947.9 | 952 9.1 43239.6 -0924.8 | 1042 8.2 45141.1 -0933.3 | 1132 10. 51351.2 -0958.2 |
| 863 9.8 41112.2 -0959.9 | 953 9.4 43253.3 -0919.7 | 1043 9.3 45210.8 -0943.3 | 1133 10. 51419.0 -0955.6 |
| 864 9.5 41132.6 -0902.9 | 954 9.8 43309.7 -0942.2 | 1044 8.8 45228.5 -0920.4 | 1134 9.3 51425.5 -0952.5 |
| 865 9.5 41142.5 -0951.4 | 955 9.5 43319.6 -0955.9 | 1045 7.8 45231.1 -0922.8 | 1135 9.4 51436.7 -0919.0 |
| 866 10. 41147.8 -0912.4 | 956 9.6 43335.2 -0929.0 | 1046 9.0 45253.4 -0911.4 | 1136 10. 51513.9 -0929.2 |
| 867 10. 41205.1 -0932.4 | 957 9.5 43338.4 -0901.0 | 1047 9.3 45303.2 -0958.0 | 1137 9.0 51519.7 -0914.5 |
| 868 9.4 41221.0 -0925.9 | 958 9.2 43412.3 -0908.6 | 1048 9.3 45330.6 -0917.8 | 1138 10. 51529.9 -0946.7 |
| 869 9.4 41251.6 -0920.5 | 959 10. 43434.5 -0911.5 | 1049 9.5 45400.9 -0909.5 | 1139 8.6 51621.2 -0928.3 |
| 870 10. 41254.3 -0941.8 | 960 9.5 43455.7 -0959.6 | 1050 8.7 45408.9 -0926.1 | 1140 9.5 51652.8 -0943.4 |
| 871 9.5 41313.5 -0921.1 | 961 9.4 43460.8 -0921.7 | 1051 9.0 45448.2 -0927.0 | 1141 9.6 51708.1 -0954.4 |
| 872 9.1 41318.4 -0923.6 | 962 9.4 43453.6 -0932.5 | 1052 9.3 45456.1 -0922.2 | 1142 9.7 51713.0 -0949.6 |
| 873 8.5 41342.1 -0929.8 | 963 9.5 43540.5 -0907.3 | 1053 9.6 45501.6 -0930.9 | 1143 9.9 51715.6 -0958.4 |
| 874 8.0 41406.4 -0911.7 | 964 8.5 43542.7 -0905.1 | 1054 10. 45504.7 -0948.8 | 1144 10. 51718.6 -0911.7 |
| 875 10. 41411.2 -0959.7 | 965 10. 43543.3 -0952.0 | 1055 7.3 45541.8 -0906.8 | 1145 9.0 51754.7 -0922.0 |
| 876 9.4 41415.8 -0954.3 | 966 8.9 43507.5 -0925.0 | 1056 9.5 45553.6 -0919.0 | 1146 9.6 51814.1 -0916.3 |
| 877 9.5 41438.5 -0944.0 | 967 9.3 43612.0 -0958.2 | 1057 9.1 45617.2 -0927.6 | 1147 9.1 51823.2 -0933.2 |
| 878 9.5 41443.0 -0954.2 | 968 8.0 43620.6 -0952.5 | 1058 9.3 45614.5 -0918.3 | 1148 9.8 51842.0 -0927.5 |
| 879 9.5 41447.6 -0922.7 | 969 7.0 43637.5 -0903.8 | 1059 9.5 45618.5 -0927.1 | 1149 9.8 51843.0 -0920.0 |
| 880 9.3 41512.8 -0913.8 | 970 8.0 43638.2 -0903.9 | 1060 10. 45626.1 -0901.8 | 1150 8.0 51847.7 -0940.7 |
| 881 9.3 41514.6 -0957.9 | 971 9.2 43646.2 -0916.6 | 1061 9.5 45633.6 -0955.3 | 1151 9.5 51853.3 -0924.6 |
| 882 8.8 41520.2 -0926.9 | 972 9.2 43730.1 -0912.6 | 1062 8.8 45635.7 -0948.9 | 1152 9.2 51903.7 -0946.9 |
| 883 9.3 41520.4 -0908.2 | 973 9.8 43746.0 -0927.9 | 1063 9.5 45645.8 -0907.2 | 1153 8.0 51907.6 -0913.1 |
| 884 9.5 41522.6 -0958.0 | 974 8.5 43750.4 -0921.3 | 1064 9.8 45700.2 -0927.7 | 1154 9.5 51942.8 -0934.8 |
| 885 10. 41614.2 -0930.3 | 975 10. 43827.7 -0937.1 | 1065 9.6 45702.9 -0947.8 | 1155 9.0 51949.7 -0932.1 |
| 886 9.9 41623.9 -0944.8 | 976 9.5 43856.8 -0941.1 | 1066 9.5 45721.4 -0914.5 | 1156 9.5 52009.8 -0924.6 |
| 887 9.5 41649.8 -0904.5 | 977 8.5 43905.0 -0955.3 | 1067 9.2 45748.3 -0935.9 | 1157 10. 52029.0 -0947.8 |
| 888 9.2 41651.6 -0932.5 | 978 8.8 43920.5 -0944.6 | 1068 9.3 45749.6 -0955.0 | 1158 9.3 52104.2 -0956.8 |
| 889 8.6 41655.5 -0952.6 | 979 9.2 43941.3 -0924.4 | 1069 9.5 45807.5 -0956.5 | 1159 9.5 52110.5 -0929.4 |
| 890 9.3 41719.0 -0917.6 | 980 9.6 44005.8 -0933.2 | 1070 9.8 45819.3 -0905.0 | 1160 10. 52111.7 -0905.0 |
| 891 9.4 41728.1 -0926.6 | 981 9.5 44015.2 -0932.1 | 1071 9.8 45833.9 -0932.5 | 1161 9.4 5224.6 -0930.5  |
| 892 8.2 41744.8 -0905.0 | 982 10. 44032.0 -0900.6 | 1072 9.5 45837.4 -0942.4 | 1162 9.5 52142.6 -0912.5 |
| 893 9.4 41745.2 -0948.8 | 983 9.6 44033.8 -0907.5 | 1073 10. 45847.2 -0951.8 | 1163 9.5 52159.9 -0942.7 |
| 894 7.7 41749.4 -0933.3 | 984 9.4 44039.4 -0950.6 | 1074 8.3 45949.3 -0938.0 | 1164 9.5 52223.9 -0945.9 |
| 895 9.5 41752.6 -0922.0 | 985 8.5 44045.8 -0931.0 | 1075 9.0 45930.3 -0905.6 | 1165 8.5 52325.0 -0946.8 |
| 896 8.7 41754.3 -0904.7 | 986 7.7 44119.3 -0945.8 | 1076 9.0 45932.9 -0953.3 | 1166 9.3 52338.5 -0901.1 |
| 897 9.5 41827.1 -0952.5 | 987 10. 44123.1 -0911.6 | 1077 9.5 45941.5 -0915.0 | 1167 9.3 52339.3 -0932.2 |
| 898 9.1 41949.9 -0908.8 | 988 9.7 44130.9 -0924.9 | 1078 9.3 45948.8 -0949.3 | 1168 9.5 52413.1 -0953.0 |
| 899 8.2 42011.0 -0913.7 | 989 9.5 44142.0 -0903.0 | 1079 9.0 50012.6 -0920.3 | 1169 9.5 52420.2 -0929.5 |
| 900 9.7 42012.5 -0955.1 | 990 9.8 44143.4 -0926.7 | 1080 9.5 50057.4 -0913.2 | 1170 10. 52423.6 -0912.3 |
| 901 8.8 42043.1 -0952.9 | 991 9.5 44145.9 -0945.0 | 1081 8.5 50114.5 -0917.7 | 1171 9.5 52434.0 -0948.5 |
| 902 9.8 42052.7 -0921.9 | 992 9.0 44204.8 -0915.3 | 1082 9.5 50140.0 -0959.6 | 1172 10. 52545.1 -0955.2 |
| 903 9.4 42117.2 -0936.0 | 993 9.8 44205.9 -0919.0 | 1083 9.4 50144.7 -0926.8 | 1173 9.5 52552.6 -0907.8 |
| 904 9.3 42202.2 -0958.2 | 994 10. 44213.3 -0949.9 | 1084 9.5 50149.0 -0958.3 | 1174 9.5 52553.0 -0946.6 |
| 905 9.1 42209.1 -0925.9 | 995 7.7 44222.8 -0916.0 | 1085 9.5 50258.8 -0947.9 | 1175 8.6 52633.2 -0929.7 |
| 906 9.5 42238.0 -0916.5 | 996 9.4 44236.5 -0902.8 | 1086 9.0 50259.5 -0917.5 | 1176 8.5 52658.6 -0909.2 |
| 907 9.5 42244.8 -0943.0 | 997 10. 44239.2 -0940.5 | 1087 9.3 50301.2 -0918.6 | 1177 9.5 52709.9 -0942.6 |



-09 1178 5h27m

1178 9.3 52710.7 -0914.5  
1179 9.4 52734.8 -0931.4  
1180 9.2 52759.1 -0952.9  
1181 9.8 52806.7 -0933.4  
1182 9.4 52816.7 -0936.9  
1183 9.3 52820.7 -0920.8  
1184 9.6 52842.8 -0930.9  
1185 10. 52857.2 -0956.8  
1186 9.5 52910.0 -0920.6  
1187 10. 52927.1 -0950.6  
  
1188 9.5 52946.2 -0953.7  
1189 10. 52946.5 -0945.7  
1190 10. 52952.7 -0918.4  
1191 9.5 53018.7 -0918.4  
1192 9.1 53022.8 -0926.4  
1193 9.0 53035.7 -0920.2  
1194 9.1 53127.3 -0931.8  
1195 9.3 53138.5 -0920.3  
1196 9.5 53152.1 -0951.0  
1197 6.5 53238.1 -0947.3  
  
1198 9.3 53242.6 -0909.1  
1199 9.3 53244.3 -0957.6  
1200 9.4 53254.6 -0946.9  
1201 9.0 53341.7 -0916.6  
1202 10. 53347.6 -0923.6  
1203 8.5 53404.2 -0952.2  
1204 8.3 53441.3 -0934.4  
1205 9.2 53441.7 -0919.6  
1206 10. 53453.2 -0955.4  
1207 9.5 53509.8 -0929.5  
  
1208 9.5 53510.7 -0923.2  
1209 9.1 53530.3 -0959.8  
1210 7.8 53531.8 -0939.6  
1211 10. 53554.2 -0946.1  
1212 10. 53610.0 -0916.5  
1213 7.3 53644.8 -0900.4  
1214 10. 53655.7 -0918.7  
1215 9.3 53658.6 -0906.2  
1216 9.0 53716.8 -0931.0  
1217 9.5 53721.0 -0906.6  
  
1218 9.3 53725.1 -0941.6  
1219 9.3 53758.3 -0947.3  
1220 9.5 53803.4 -0951.8  
1221 8.5 53811.5 -0900.8  
1222 9.1 53852.9 -0904.2  
1223 9.7 53858.7 -0901.0  
1224 9.3 53914.0 -0938.8  
1225 10. 53924.3 -0942.3  
1226 10. 53932.4 -0916.3  
1227 10. 53934.4 -0908.6  
  
1228 10. 53946.5 -0912.5  
1229 9.4 53958.7 -0936.5  
1230 9.2 54004.3 -0906.0  
1231 8.0 54005.4 -0953.5  
1232 9.4 54035.2 -0954.0  
1233 9.7 54047.7 -0927.7  
1234 7.8 54051.8 -0934.1  
1235 2.5 54053.2 -0944.2  
1236 9.5 54103.5 -0918.6  
1237 10. 54118.6 -0903.4  
  
1238 9.4 54122.9 -0934.3  
1239 10. 54132.7 -0921.7  
1240 9.0 54147.5 -0954.5  
1241 10. 54157.6 -0912.7  
1242 9.0 54203.2 -0945.9  
1243 8.7 54203.7 -0943.2  
1244 8.5 54222.0 -0926.6  
1245 8.9 54251.3 -0948.1  
1246 9.5 54259.7 -0918.5  
1247 9.4 54320.8 -0944.0  
  
1248 10. 54332.8 -0958.8  
1249 9.3 54333.6 -0901.9  
1250 9.3 54334.1 -0936.9  
1251 9.0 54335.3 -0944.0  
1252 9.5 54413.8 -0925.1  
1253 9.5 54458.6 -0947.9  
1254 7.5 54510.5 -0950.7  
1255 6.0 54512.6 -0905.4  
1256 9.5 54521.9 -0928.7  
1257 8.0 54526.5 -0900.0  
  
1258 9.3 54541.1 -0936.4  
1259 9.0 54641.4 -0932.7  
1260 9.3 54711.2 -0958.7  
1261 9.9 54738.8 -0926.3  
1262 8.0 54758.6 -0912.6  
1263 9.5 54805.8 -0925.1  
1264 7.2 54814.5 -0950.2  
1265 9.5 54823.7 -0919.6  
1266 8.6 54838.6 -0953.8  
1267 9.0 54851.7 -0956.9

1268 9.0 54856.8 -0925.5  
1269 9.5 54918.7 -0919.1  
1270 9.0 54924.7 -0956.3  
1271 9.0 54924.7 -0915.1  
1272 9.3 54934.7 -0916.0  
1273 10. 54945.7 -0916.4  
1274 8.0 54955.7 -0919.5  
1275 9.0 55005.5 -0950.1  
1276 9.7 55005.7 -0921.3  
1277 9.5 55012.6 -0956.3  
  
1278 10. 55045.7 -0912.8  
1279 9.5 55059.7 -0922.2  
1280 9.5 55128.7 -0923.5  
1281 9.3 55134.7 -0919.6  
1282 10. 55139.5 -0950.2  
1283 10. 55144.0 -0917.4  
1284 7.0 55206.2 -0923.4  
1285 5.5 55210.9 -0935.0  
1286 9.0 55231.4 -0948.3  
1287 9.3 55237.4 -0948.3  
  
1288 9.4 55239.1 -0930.5  
1289 10. 55245.8 -0924.3  
1290 9.5 55254.6 -0918.0  
1291 8.5 55301.3 -0944.6  
1292 9.5 55315.6 -0916.0  
1293 10. 55336.7 -0920.3  
1294 9.0 55339.5 -0952.2  
1295 9.3 55341.5 -0949.1  
1296 9.5 55349.7 -0913.5  
1297 9.5 55351.7 -0953.6  
  
1298 9.5 55355.6 -0901.6  
1299 9.2 55407.2 -0940.5  
1300 9.2 55411.7 -0957.0  
1301 9.4 55511.2 -0941.9  
1302 10. 55519.6 -0902.4  
1303 9.0 55521.6 -0911.3  
1304 9.2 55522.8 -0924.2  
1305 9.4 55533.7 -0958.5  
1306 10. 55541.6 -0904.1  
1307 9.0 55545.1 -0926.9  
  
1308 9.2 55546.2 -0941.3  
1309 9.3 55610.5 -0924.3  
1310 9.3 55611.4 -0942.7  
1311 10. 55612.7 -0956.1  
1312 9.0 55613.7 -0914.8  
1313 9.5 55615.6 -0909.5  
1314 10. 55639.9 -0947.7  
1315 9.6 55706.9 -0921.3  
1316 9.5 55708.6 -0948.5  
1317 9.1 55709.7 -0926.4  
  
1318 9.5 55711.6 -0950.1  
1319 9.0 55728.4 -0931.5  
1320 9.5 55729.2 -0957.9  
1321 8.2 55816.2 -0916.5  
1322 9.3 55819.0 -0935.2  
1323 9.3 55824.3 -0926.5  
1324 9.7 55829.1 -0904.6  
1325 9.5 55835.7 -0919.3  
1326 9.0 55905.7 -0921.0  
1327 9.2 55918.0 -0948.0  
  
1328 9.2 55918.6 -0935.9  
1329 9.6 55923.9 -0958.4  
1330 10. 55925.8 -0954.6  
1331 9.7 55934.3 -0926.7  
1332 10. 55936.2 -0957.1  
1333 8.4 60006.3 -0943.2  
1334 9.5 60018.6 -0906.3  
1335 9.5 60043.7 -0957.7  
1336 9.5 60049.6 -0909.9  
1337 9.0 60100.3 -0925.0  
  
1338 8.2 60100.8 -0926.3  
1339 9.5 60121.0 -0923.6  
1340 9.5 60134.6 -0954.1  
1341 9.5 60144.8 -0959.5  
1342 9.8 60151.7 -0920.0  
1343 8.0 60206.1 -0937.7  
1344 9.7 60208.4 -0929.2  
1345 8.5 60223.6 -0907.0  
1346 9.0 60226.9 -0931.2  
1347 8.5 60255.8 -0925.4  
  
1348 9.4 60300.8 -0924.1  
1349 8.5 60330.7 -0919.7  
1350 10. 60348.6 -0911.9  
1351 9.0 60350.6 -0949.6  
1352 8.6 60351.6 -0949.6  
1353 9.0 60355.7 -0913.2  
1354 9.4 60358.8 -0932.6  
1355 9.6 60401.2 -0933.1  
1356 9.5 60404.6 -0911.0  
1357 9.7 60407.6 -0911.9

1358 9.5 60420.8 -0925.3  
1359 8.0 60426.2 -0936.5  
1360 9.1 60448.7 -0913.7  
1361 9.3 60453.0 -0921.7  
1362 10. 60456.5 -0947.2  
1363 9.1 60459.6 -0925.3  
1364 9.2 60504.6 -0950.0  
1365 10. 60518.4 -0910.7  
1366 8.3 60527.9 -0941.5  
1367 9.5 60529.3 -0923.7  
  
1368 9.0 60531.9 -0929.1  
1369 9.4 60546.5 -0939.2  
1370 10. 60547.7 -0950.9  
1371 9.4 60549.1 -0931.4  
1372 9.3 60600.0 -0930.9  
1373 8.3 60619.6 -0902.9  
1374 9.0 60624.4 -0951.4  
1375 9.5 60633.1 -0933.8  
1376 9.1 60643.7 -0909.8  
1377 9.4 60701.7 -0910.9  
  
1378 9.0 60703.5 -0945.1  
1379 9.8 60718.3 -0912.6  
1380 9.5 60725.1 -0958.0  
1381 9.0 60746.6 -0926.0  
1382 9.5 60806.8 -0946.0  
1383 9.4 60814.4 -0957.8  
1384 9.0 60834.4 -0922.1  
1385 8.3 60837.5 -0948.3  
1386 9.0 60838.5 -0932.1  
1387 9.4 60839.9 -0910.0  
  
1388 9.0 60841.9 -0925.1  
1389 9.1 60910.6 -0905.5  
1390 8.7 60913.7 -0932.7  
1391 9.4 60915.3 -0902.0  
1392 9.5 60927.4 -0942.8  
1393 10. 60928.4 -0950.1  
1394 9.5 60931.1 -0906.7  
1395 8.2 60931.5 -0953.6  
1396 9.5 60936.0 -0942.5  
1397 9.2 60941.1 -0935.2  
  
1398 9.4 60945.1 -0901.2  
1399 9.1 60956.3 -0936.4  
1400 9.6 61024.2 -0953.8  
1401 9.3 61027.9 -0927.4  
1402 8.5 61029.2 -0935.2  
1403 9.3 61032.8 -0915.5  
1404 8.8 61057.3 -0955.9  
1405 10. 61058.0 -0943.2  
1406 9.4 61126.1 -0945.6  
1407 9.7 61127.9 -0955.7  
  
1408 9.4 61131.2 -0909.5  
1409 9.5 61137.5 -0953.2  
1410 9.8 61149.6 -0933.9  
1411 5.8 61156.3 -0920.2  
1412 9.3 61216.6 -0918.6  
1413 10. 61217.8 -0956.2  
1414 9.5 61227.9 -0957.7  
1415 9.6 61232.6 -0927.0  
1416 8.7 61235.7 -0914.1  
1417 9.0 61238.7 -0944.0  
  
1418 9.6 61240.9 -0927.8  
1419 8.5 61243.8 -0920.0  
1420 9.1 61308.0 -0931.0  
1421 9.5 61309.5 -0902.9  
1422 9.4 61344.3 -0913.0  
1423 7.2 61348.2 -0950.4  
1424 9.1 61349.9 -0939.5  
1425 9.5 61350.9 -0923.0  
1426 10. 61353.5 -0927.9  
1427 9.5 61404.6 -0935.4  
  
1428 9.5 61409.0 -0900.7  
1429 9.1 61412.5 -0903.1  
1430 9.8 61443.7 -0945.1  
1431 7.5 61450.6 -0936.9  
1432 9.4 61458.2 -0935.8  
1433 10. 61505.9 -0953.0  
1434 8.2 61506.1 -0925.6  
1435 9.4 61522.4 -0923.6  
1436 9.8 61526.0 -0947.3  
1437 9.8 61526.9 -0921.6  
  
1438 9.4 61543.1 -0907.5  
1439 9.0 61604.0 -0944.2  
1440 9.8 61615.9 -0926.3  
1441 9.4 61620.3 -0956.7  
1442 9.2 61634.6 -0948.8  
1443 9.3 61638.6 -0927.9  
1444 6.3 61643.5 -0948.4  
1445 9.4 61644.3 -0916.9  
1446 8.5 61652.8 -0916.7  
1447 10. 61704.3 -0938.1

1448 9.8 61708.7 -0912.4  
1449 9.1 61710.8 -0919.4  
1450 9.3 61747.4 -0934.0  
1451 9.5 61803.9 -0927.3  
1452 9.4 61806.1 -0904.8  
1453 10. 61813.9 -0959.1  
1454 8.6 61821.6 -0903.4  
1455 9.8 61824.3 -0948.8  
1456 7.5 61827.0 -0900.6  
1457 9.8 61905.4 -0940.3  
  
1458 9.0 61912.3 -0919.3  
1459 9.8 61917.1 -0909.8  
1460 9.5 61918.3 -0955.9  
1461 9.6 61920.3 -0928.9  
1462 8.0 61926.4 -0957.5  
1463 9.8 61932.0 -0904.3  
1464 8.5 61935.2 -0915.2  
1465 9.8 61945.3 -0935.0  
1466 9.8 62010.5 -0902.9  
1467 9.4 62017.4 -0920.8  
  
1468 9.8 62018.1 -0946.3  
1469 9.1 62021.0 -0947.0  
1470 10. 62031.4 -0941.1  
1471 9.3 62056.2 -0925.1  
1472 10. 62041.5 -0926.7  
1473 9.0 62045.7 -0908.7  
1474 9.6 62125.9 -0926.9  
1475 8.7 62127.7 -0944.1  
1476 9.0 62136.4 -0940.3  
1477 9.4 62141.1 -0950.3  
  
1478 9.0 62154.8 -0918.7  
1479 9.1 62207.4 -0933.1  
1480 9.3 62210.7 -0912.0  
1481 9.4 62213.1 -0946.2  
1482 10. 62223.2 -0900.0  
1483 7.7 62225.6 -0906.8  
1484 9.0 62227.1 -0949.5  
1485 9.8 62233.5 -0905.4  
1486 8.7 62233.6 -0927.0  
1487 10. 62238.8 -0933.5  
  
1488 9.7 62241.3 -0943.8  
1489 9.3 62243.1 -0938.3  
1490 9.0 62251.8 -0913.7  
1491 9.5 62305.2 -0952.2  
1492 9.9 62311.5 -0945.3  
1493 6.3 62319.5 -0959.3  
1494 9.8 62322.2 -0912.9  
1495 9.3 62334.6 -0918.1  
1496 9.7 62341.0 -0924.3  
1497 9.2 62355.2 -0933.1  
  
1498 8.6 62356.5 -0933.9  
1499 9.1 62357.9 -0909.5  
1500 9.4 62359.4 -0941.1  
1501 10. 62420.4 -0958.0  
1502 10. 62427.5 -0939.5  
1503 9.6 62437.7 -0928.8  
1504 9.1 62439.1 -0939.0  
1505 9.3 62443.6 -0902.0  
1506 9.8 62501.0 -0924.7  
1507 8.3 62502.2 -0932.0  
  
1508 9.4 62509.5 -0909.2  
1509 9.5 62512.6 -0929.9  
1510 8.5 62539.4 -0957.5  
1511 9.5 62548.8 -0925.4  
1512 9.5 62556.0 -0926.2  
1513 9.0 62604.4 -0958.8  
1514 9.4 62606.7 -0936.1  
1515 9.4 62620.1 -0936.9  
1516 9.1 62622.0 -0933.0  
1517 10. 62639.9 -0931.7  
  
1518 9.3 62641.9 -0920.2  
1519 8.7 62702.6 -0915.1  
1520 9.2 62708.1 -0919.9  
1521 9.1 62713.9 -0956.4  
1522 9.8 62737.9 -0908.8  
1523 9.6 62750.8 -0917.3  
1524 9.6 62751.0 -0926.7  
1525 9.8 62756.5 -0913.5  
1526 9.6 62813.2 -0931.0  
1527 9.8 62815.4 -0915.6  
  
1528 10. 62823.1 -0915.8  
1529 8.5 62837.5 -0915.5  
1530 9.8 62853.4 -0904.1  
1531 9.4 62858.6 -0944.5  
1532 9.8 62859.5 -0913.0  
1533 8.6 62901.6 -0920.1  
1534 9.8 62923.9 -0929.6  
1535 10. 62926.0 -0959.6  
1536 10. 62928.3 -0901.8  
1537 8.1 62935.0 -0943.1

-09 1537 6h29m



-09 1538 6h29m

1538 9.0 62941.1 -0945.7  
1539 10. 62948.2 -0951.8  
1540 9.8 62948.2 -0956.5  
1541 8.8 62954.4 -0905.9  
1542 9.7 62958.7 -0931.4  
1543 9.0 63000.4 -0945.2  
1544 9.8 63009.4 -0903.3  
1545 9.0 63019.5 -0914.3  
1546 9.4 63021.9 -0957.8  
1547 9.6 63027.4 -0935.8  
  
1548 9.1 63036.7 -0920.7  
1549 8.6 63042.6 -0916.3  
1550 9.8 63046.4 -0955.8  
1551 9.8 63055.1 -0924.7  
1552 9.1 63059.4 -0956.0  
1553 8.3 63103.5 -0908.6  
1554 10. 63110.6 -0927.2  
1555 9.8 63120.7 -0925.7  
1556 9.4 63121.2 -0928.4  
1557 8.5 63137.7 -0911.6  
  
1558 9.1 63141.4 -0938.8  
1559 9.2 63143.0 -0927.5  
1560 9.2 63143.5 -0939.1  
1561 9.2 63158.8 -0938.5  
1562 9.5 63206.0 -0931.7  
1563 9.6 63208.9 -0931.8  
1564 8.5 63218.4 -0914.3  
1565 10. 63222.0 -0939.4  
1566 9.8 63224.9 -0919.5  
1567 9.6 63226.1 -0935.2  
  
1568 9.0 63228.7 -0950.7  
1569 10. 63229.3 -0937.1  
1570 9.8 63230.0 -0908.7  
1571 9.6 63230.5 -0930.0  
1572 9.3 63241.0 -0930.4  
1573 8.8 63246.7 -0942.2  
1574 9.8 63257.7 -0912.0  
1575 9.2 63302.5 -0902.1  
1576 9.3 63302.6 -0906.1  
1577 9.8 63309.7 -0941.2  
  
1578 9.7 63312.1 -0920.7  
1579 9.7 63312.6 -0906.2  
1580 9.3 63316.7 -0953.6  
1581 10. 63326.6 -0959.8  
1582 9.2 63329.6 -0947.4  
1583 9.2 63331.6 -0953.1  
1584 10. 63332.7 -0935.0  
1585 10. 63333.0 -0938.4  
1586 9.7 63335.5 -0919.2  
1587 9.7 63343.2 -0926.5  
  
1588 9.2 63353.3 -0947.0  
1589 9.5 63403.1 -0957.6  
1590 9.8 63412.4 -0548.4  
1591 9.5 63415.2 -0910.6  
1592 9.3 63416.0 -0918.4  
1593 9.4 63420.2 -0916.1  
1594 9.7 63433.8 -0914.8  
1595 9.3 63436.8 -0955.1  
1596 9.4 63436.9 -0922.5  
1597 10. 63439.0 -0918.1  
  
1598 10. 63439.4 -0937.6  
1599 9.0 63450.3 -0957.6  
1600 9.9 63456.7 -0959.1  
1601 5.9 63500.8 -0902.1  
1602 8.9 63513.7 -0944.2  
1603 9.0 63520.5 -0946.5  
1604 9.8 63522.9 -0915.2  
1605 9.8 63520.4 -0922.0  
1606 8.4 63530.0 -0925.8  
1607 9.8 63556.0 -0902.9  
  
1608 9.8 63556.9 -0957.5  
1609 8.5 63608.4 -0935.4  
1610 9.0 63608.5 -0956.0  
1611 9.5 63609.7 -0946.6  
1612 10. 63611.5 -0955.7  
1613 9.8 63615.9 -0922.6  
1614 10. 63630.8 -0938.6  
1615 9.0 63633.9 -0956.8  
1616 9.5 63635.0 -0943.9  
1617 9.1 63635.3 -0922.5  
  
1618 9.3 63637.3 -0918.3  
1619 9.1 63645.8 -0917.0  
1620 9.8 63658.7 -0911.2  
1621 9.8 63700.2 -0942.5  
1622 10. 63700.6 -0907.3  
1623 9.3 63704.5 -0959.8  
1624 8.8 63705.6 -0920.2  
1625 9.7 63713.9 -0928.8  
1626 9.6 63723.7 -0907.6  
1627 9.4 63740.7 -0937.0

1628 9.1 63751.6 -0906.5  
1629 8.2 63752.8 -0914.9  
1630 9.1 63753.2 -0930.9  
1631 9.3 63812.1 -0908.0  
1632 9.3 63828.7 -0942.3  
1633 10. 63829.2 -0923.9  
1634 9.7 63829.8 -0915.5  
1635 9.5 63831.4 -0939.9  
1636 8.5 63831.6 -0949.9  
1637 9.2 63839.4 -0953.6  
  
1638 9.8 63848.4 -0928.6  
1639 9.8 63911.3 -0921.1  
1640 9.3 63913.5 -0953.2  
1641 10. 63922.2 -0951.4  
1642 9.5 63936.6 -0917.5  
1643 9.4 63937.7 -0916.0  
1644 6.3 63947.3 -0957.4  
1645 8.5 63955.0 -0900.5  
1646 9.8 64003.9 -0933.3  
1647 9.8 64006.4 -0951.0  
  
1648 9.5 64029.8 -0915.1  
1649 8.5 64031.9 -0948.1  
1650 9.8 64037.1 -0938.1  
1651 10. 64058.0 -0928.3  
1652 8.6 64101.2 -0930.9  
1653 8.7 64111.4 -0938.2  
1654 9.0 64115.2 -0903.4  
1655 8.7 64123.7 -0950.3  
1656 9.1 64124.9 -0935.1  
1657 9.0 64135.8 -0930.8  
  
1658 9.5 64141.7 -0956.8  
1659 8.0 64205.7 -0938.7  
1660 9.1 64206.7 -0925.4  
1661 9.8 64212.9 -0923.1  
1662 10. 64220.0 -0928.9  
1663 9.8 64223.9 -0917.6  
1664 9.6 64226.4 -0936.1  
1665 9.3 64227.1 -0944.9  
1666 9.0 64238.2 -0902.4  
1667 9.0 64242.0 -0923.7  
  
1668 9.0 64242.9 -0950.0  
1669 9.2 64245.5 -0931.3  
1670 9.7 64257.9 -0920.7  
1671 9.3 64304.7 -0905.0  
1672 9.4 64316.1 -0952.9  
1673 10. 64319.2 -0936.9  
1674 10. 64326.4 -0941.3  
1675 9.5 64327.3 -0942.4  
1676 9.8 64353.4 -0943.3  
1677 9.0 64359.8 -0932.2  
  
1678 9.8 64404.4 -0952.0  
1679 8.4 64406.5 -0927.9  
1680 7.0 64420.9 -0954.8  
1681 9.8 64425.2 -0942.7  
1682 9.1 64427.9 -0924.3  
1683 9.8 64434.1 -0937.0  
1684 9.5 64434.7 -0927.2  
1685 9.1 64439.5 -0922.5  
1686 8.8 64449.3 -0910.7  
1687 9.4 64455.2 -0929.4  
  
1688 9.8 64456.3 -0921.8  
1689 9.4 64457.4 -0943.8  
1690 9.7 64458.7 -0945.9  
1691 9.8 64506.9 -0943.0  
1692 9.8 64508.7 -0935.6  
1693 9.4 64512.8 -0957.5  
1694 8.5 64514.0 -0922.1  
1695 9.8 64519.8 -0914.7  
1696 9.4 64527.5 -0923.0  
1697 9.0 64546.3 -0959.8  
  
1698 9.7 64600.9 -0943.2  
1699 9.0 64601.0 -0949.5  
1700 8.8 64604.3 -0911.8  
1701 9.0 64606.1 -0953.5  
1702 9.0 64607.0 -0956.6  
1703 9.4 64610.9 -0947.2  
1704 9.3 64622.2 -0919.0  
1705 8.0 64625.2 -0933.9  
1706 9.4 64626.8 -0931.7  
1707 9.5 64640.5 -0947.9  
  
1708 9.8 64640.9 -0925.8  
1709 9.4 64646.2 -0904.8  
1710 8.9 64650.0 -0949.9  
1711 7.2 64651.4 -0920.0  
1712 9.1 64658.9 -0920.9  
1713 9.5 64703.7 -0937.0  
1714 9.2 64703.8 -0951.7  
1715 9.1 64706.8 -0938.9  
1716 9.1 64707.0 -0951.4  
1717 8.8 64709.7 -0909.2

1718 10. 64710.2 -0957.0  
1719 9.8 64715.0 -0900.7  
1720 9.8 64721.8 -0919.1  
1721 7.5 64726.4 -0926.0  
1722 9.4 64731.2 -0918.6  
1723 9.0 64737.0 -0900.4  
1724 10. 64744.4 -0922.7  
1725 9.2 64746.5 -0913.7  
1726 10. 64754.5 -0948.1  
1727 9.1 64813.6 -0936.7  
  
1728 8.8 64816.2 -0958.1  
1729 7.8 64818.0 -0908.8  
1730 8.5 64831.1 -0927.7  
1731 9.8 64841.1 -0936.4  
1732 8.5 64842.8 -0900.3  
1733 8.2 64843.4 -0918.2  
1734 10. 64852.1 -0951.5  
1735 9.0 64921.4 -0944.0  
1736 9.7 64928.2 -0912.9  
1737 9.6 64932.5 -0912.1  
  
1738 9.2 64949.7 -0955.5  
1739 9.0 64951.6 -0936.4  
1740 9.8 65005.2 -0944.9  
1741 9.3 65006.6 -0952.0  
1742 9.5 65014.4 -0938.5  
1743 9.1 65024.2 -0911.9  
1744 9.8 65025.1 -0958.2  
1745 8.6 65027.4 -0954.2  
1746 9.6 65029.5 -0948.6  
1747 9.1 65030.3 -0916.8  
  
1748 9.7 65031.5 -0953.3  
1749 9.5 65033.7 -0909.4  
1750 9.1 65037.9 -0942.8  
1751 9.8 65058.6 -0901.6  
1752 9.4 65102.4 -0919.7  
1753 9.8 65102.9 -0930.6  
1754 9.5 65105.3 -0953.2  
1755 9.0 65110.1 -0946.5  
1756 9.2 65114.4 -0940.8  
1757 9.2 65121.8 -0958.5  
  
1758 9.8 65124.5 -0943.0  
1759 9.8 65127.0 -0924.1  
1760 9.4 65128.2 -0906.5  
1761 8.2 65132.6 -0959.8  
1762 9.7 65140.4 -0917.7  
1763 9.7 65146.5 -0948.6  
1764 8.7 65147.3 -0959.1  
1765 8.9 65152.2 -0908.7  
1766 9.7 65152.9 -0940.4  
1767 9.5 65153.1 -0927.2  
  
1768 8.4 65159.9 -0950.7  
1769 9.1 65200.7 -0954.5  
1770 9.5 65208.5 -0928.8  
1771 10. 65217.6 -0903.4  
1772 10. 65226.1 -0955.1  
1773 9.8 65238.5 -0952.8  
1774 9.0 65240.7 -0931.6  
1775 8.6 65241.1 -0918.1  
1776 9.6 65304.2 -0904.8  
1777 9.2 65305.7 -0934.4  
  
1778 9.8 65311.0 -0949.7  
1779 9.4 65313.3 -0939.0  
1780 8.5 65317.6 -0905.5  
1781 9.8 65322.9 -0922.5  
1782 9.3 65332.1 -0900.4  
1783 8.3 65348.4 -0918.1  
1784 8.9 65350.2 -0926.4  
1785 9.7 65355.3 -0953.4  
1786 9.7 65359.4 -0917.8  
1787 9.8 65406.7 -0905.3  
  
1788 9.4 65409.1 -0959.6  
1789 9.1 65420.4 -0944.1  
1790 9.0 65423.9 -0915.8  
1791 9.8 65428.3 -0925.9  
1792 10. 65421.8 -0928.5  
1793 9.5 65432.3 -0957.8  
1794 9.0 65432.3 -0920.8  
1795 10. 65435.3 -0921.1  
1796 8.0 65437.0 -0930.0  
1797 9.8 65438.2 -0928.1  
  
1798 9.5 65441.4 -0937.4  
1799 9.5 65442.1 -0953.0  
1800 9.3 65444.4 -0942.6  
1801 9.1 65447.8 -0948.9  
1802 9.4 65456.0 -0948.0  
1803 9.0 65459.4 -0914.2  
1804 8.0 65512.0 -0940.9  
1805 8.2 65516.6 -0900.4  
1806 9.5 65522.7 -0923.7  
1807 9.2 65538.0 -0907.2

1808 9.4 65538.1 -0950.4  
1809 9.1 65539.9 -0925.3  
1810 9.1 65541.8 -0952.4  
1811 9.0 65554.3 -0912.4  
1812 10. 65558.1 -0913.0  
1813 9.5 65603.4 -0936.6  
1814 9.1 65618.2 -0922.9  
1815 9.4 65621.9 -0918.7  
1816 9.0 65624.4 -0920.8  
1817 9.2 65700.7 -0908.0  
  
1818 6.3 65705.1 -0954.4  
1819 9.4 65708.6 -0900.5  
1820 9.7 65710.2 -0953.0  
1821 9.2 65710.7 -0938.3  
1822 9.3 65713.4 -0903.9  
1823 8.9 65714.8 -0926.1  
1824 9.8 65724.7 -0950.1  
1825 9.3 65729.9 -0919.7  
1826 9.7 65746.1 -0953.5  
1827 8.7 65749.5 -0957.2  
  
1828 9.7 65756.6 -0934.3  
1829 9.5 65808.8 -0911.0  
1830 9.8 65809.4 -0922.8  
1831 9.3 65813.9 -0920.1  
1832 8.8 65824.5 -0953.3  
1833 9.3 65838.6 -0954.1  
1834 9.5 65844.7 -0931.6  
1835 8.7 65847.9 -0924.8  
1836 9.3 65855.3 -0908.1  
1837 9.6 65904.9 -0916.9  
  
1838 9.3 65906.7 -0916.0  
1839 9.1 65910.0 -0920.2  
1840 9.3 65910.1 -0914.4  
1841 9.7 65914.7 -0913.6  
1842 9.5 65915.3 -0903.9  
1843 10. 65920.1 -0941.0  
1844 8.2 65920.6 -0957.0  
1845 9.5 65929.5 -0957.5  
1846 10. 65932.5 -0916.0  
1847 9.5 65941.4 -0941.1  
  
1848 9.0 65949.7 -0956.6  
1849 9.5 65955.5 -0949.0  
1850 10. 65958.9 -0922.0  
1851 9.4 65959.1 -0949.7  
1852 8.7 70000.3 -0934.9  
1853 8.1 70026.6 -0921.7  
1854 7.3 70029.1 -0945.9  
1855 9.8 70034.9 -0937.5  
1856 9.4 70056.0 -0914.8  
1857 9.6 70110.2 -0927.6  
  
1858 9.0 70119.4 -0944.6  
1859 10. 70119.6 -0907.0  
1860 9.6 70121.0 -0916.1  
1861 9.8 70125.0 -0914.8  
1862 9.2 70127.5 -0929.3  
1863 9.4 70146.0 -0928.5  
1864 9.2 70147.3 -0932.8  
1865 9.8 70149.1 -0952.4  
1866 9.8 70155.3 -0901.9  
1867 9.3 70208.2 -0901.4  
  
1868 10. 70215.0 -0947.2  
1869 9.8 70216.1 -0951.4  
1870 9.8 70217.3 -0907.7  
1871 9.1 70218.4 -0913.0  
1872 9.2 70235.4 -0929.7  
1873 9.6 70238.8 -0902.8  
1874 9.8 70258.4 -0910.3  
1875 9.1 70259.7 -0904.7  
1876 9.8 70300.2 -0916.4  
1877 9.7 70302.2 -0904.3  
  
1878 9.2 70303.5 -0958.3  
1879 9.9 70308.3 -0922.5  
1880 8.4 70316.4 -0906.8  
1881 8.0 70320.5 -0904.7  
1882 9.4 70331.9 -0938.2  
1883 9.6 70336.0 -0926.5  
1884 7.8 70337.8 -0955.8  
1885 9.7 70338.7 -0922.4  
1886 9.4 70340.3 -0907.3  
1887 7.2 70352.1 -0906.4  
  
1888 9.6 70352.2 -0903.0  
1889 9.6 70357.1 -0900.8  
1890 8.8 70359.4 -0913.4  
1891 8.7 70403.2 -0935.9  
1892 9.8 70405.2 -0930.9  
1893 9.4 70411.1 -0951.7  
1894 9.5 70419.4 -0908.9  
1895 9.0 70421.7 -0904.5  
1896 9.5 70431.6 -0950.6  
1897 9.4 70432.9 -0916.5

-09 1897 7h04m



-09 1898 7h04m

1898 9.7 70456.2 -0915.7  
1899 9.5 70509.5 -0915.1  
1900 9.4 70515.6 -0931.2  
1901 9.1 70516.5 -0941.7  
1902 9.5 70530.2 -0952.9  
1903 8.8 70534.8 -0954.7  
1904 9.3 70536.4 -0914.2  
1905 8.2 70541.4 -0936.4  
1906 8.9 70553.0 -0928.1  
1907 9.5 70602.1 -0927.1  
  
1908 9.8 70622.2 -0929.6  
1909 9.5 70634.3 -0920.3  
1910 9.5 70634.7 -0903.9  
1911 9.1 70653.5 -0918.8  
1912 7.8 70700.4 -0912.7  
1913 9.2 70702.0 -0958.8  
1914 9.3 70707.8 -0954.0  
1915 10.1 70712.8 -0940.5  
1916 8.5 70713.9 -0900.3  
1917 9.3 70717.2 -0950.7  
  
1918 9.2 70718.0 -0920.8  
1919 10.1 70718.8 -0941.6  
1920 9.6 70720.8 -0951.8  
1921 5.7 70722.3 -0942.2  
1922 10.1 70728.0 -0950.9  
1923 9.3 70728.4 -0958.5  
1924 10.1 70732.7 -0948.6  
1925 9.8 70737.6 -0952.2  
1926 9.4 70738.4 -0951.2  
1927 9.7 70742.2 -0959.8  
  
1928 8.5 70746.5 -0937.9  
1929 9.1 70747.0 -0957.8  
1930 10.1 70748.3 -0948.9  
1931 9.1 70750.1 -0932.0  
1932 10.1 70753.8 -0951.4  
1933 9.1 70754.9 -0943.5  
1934 9.4 70758.7 -0938.6  
1935 9.1 70804.5 -0955.6  
1936 9.3 70805.9 -0907.5  
1937 9.6 70813.6 -0934.3  
  
1938 9.4 70815.3 -0904.1  
1939 9.5 70817.4 -0955.3  
1940 9.3 70817.6 -0948.2  
1941 9.8 70821.9 -0913.0  
1942 9.8 70837.8 -0959.0  
1943 9.6 70848.6 -0923.1  
1944 9.8 70852.0 -0916.6  
1945 9.8 70855.9 -0906.5  
1946 10.1 70900.4 -0933.5  
1947 8.3 70911.3 -0901.1  
  
1948 9.7 70934.4 -0915.6  
1949 9.7 70935.7 -0928.7  
1950 9.4 70941.4 -0949.0  
1951 9.4 70942.1 -0958.3  
1952 9.3 70945.6 -0959.3  
1953 8.3 70958.6 -0928.6  
1954 9.3 71002.3 -0907.5  
1955 9.4 71018.9 -0909.6  
1956 9.4 71019.2 -0959.7  
1957 9.5 71028.9 -0943.8  
  
1958 9.5 71031.8 -0942.1  
1959 9.6 71032.9 -0935.2  
1960 9.3 71040.4 -0909.6  
1961 9.5 71044.5 -0955.0  
1962 9.5 71045.5 -0916.2  
1963 10.1 71059.3 -0944.2  
1964 8.3 71109.9 -0915.5  
1965 9.0 71119.1 -0957.7  
1966 9.3 71120.5 -0917.0  
1967 10.1 71132.1 -0953.2  
  
1968 9.0 71133.0 -0946.7  
1969 9.8 71142.9 -0909.1  
1970 10.1 71143.7 -0902.6  
1971 9.6 71144.7 -0921.1  
1972 9.2 71150.3 -0919.7  
1973 10.1 71151.2 -0937.1  
1974 9.4 71157.1 -0957.7  
1975 9.5 71203.4 -0910.2  
1976 9.8 71205.3 -0907.5  
1977 9.4 71216.0 -0917.1  
  
1978 9.6 71219.5 -0935.7  
1979 10.1 71221.5 -0953.4  
1980 9.7 71227.1 -0939.8  
1981 9.4 71228.4 -0941.8  
1982 9.1 71230.3 -0905.4  
1983 9.8 71232.6 -0918.9  
1984 9.7 71241.7 -0933.5  
1985 9.8 71245.9 -0929.0  
1986 8.9 71245.9 -0930.0  
1987 9.3 71249.9 -0941.5

1988 9.3 71252.4 -0943.3  
1989 9.6 71314.7 -0936.0  
1990 9.3 71334.4 -0944.8  
1991 10.1 71335.0 -0920.7  
1992 8.7 71338.5 -0922.9  
1993 8.2 71350.0 -0954.9  
1994 8.2 71357.1 -0933.2  
1995 9.7 71423.2 -0953.3  
1996 9.1 71424.8 -0937.0  
1997 9.4 71433.9 -0940.4  
  
1998 9.2 71438.7 -0903.1  
1999 9.0 71450.8 -0907.6  
2000 9.8 71457.0 -0950.5  
2001 9.5 71504.4 -0914.9  
2002 9.7 71511.6 -0959.4  
2003 9.7 71517.2 -0939.4  
2004 9.8 71522.4 -0924.8  
2005 8.5 71529.9 -0956.5  
2006 9.8 71533.7 -0935.8  
2007 8.8 71541.6 -0957.6  
  
2008 9.6 71545.9 -0947.2  
2009 9.8 71547.3 -0937.6  
2010 9.4 71548.5 -0921.2  
2011 7.8 71553.4 -0921.4  
2012 9.7 71554.0 -0952.6  
2013 9.4 71610.3 -0947.8  
2014 8.7 71611.3 -0945.0  
2015 9.2 71613.2 -0949.2  
2016 9.7 71614.6 -0956.2  
2017 10.1 71618.2 -0943.3  
  
2018 8.7 71621.7 -0921.0  
2019 8.7 71622.8 -0932.1  
2020 8.0 71622.8 -0947.3  
2021 8.5 71625.5 -0958.9  
2022 8.4 71634.8 -0932.1  
2023 9.6 71700.4 -0922.1  
2024 9.5 71713.6 -0951.6  
2025 9.1 71741.4 -0917.5  
2026 9.3 71749.1 -0944.5  
2027 9.7 71750.9 -0958.7  
  
2028 9.5 71759.0 -0954.6  
2029 9.8 71800.8 -0929.4  
2030 9.5 71828.2 -0939.0  
2031 9.5 71829.9 -0916.5  
2032 9.2 71831.7 -0935.4  
2033 8.7 71847.9 -0946.5  
2034 9.8 71850.3 -0908.9  
2035 9.3 71851.9 -0950.1  
2036 9.3 71854.0 -0952.3  
2037 8.7 71900.8 -0941.0  
  
2038 9.0 71904.7 -0939.8  
2039 10.1 71913.3 -0911.3  
2040 9.3 71916.2 -0935.3  
2041 9.8 71921.6 -0930.7  
2042 9.2 71926.6 -0926.3  
2043 7.0 71931.5 -0948.4  
2044 9.8 71939.9 -0928.0  
2045 9.7 71941.0 -0925.7  
2046 9.5 71949.4 -0922.2  
2047 9.6 71955.2 -0915.3  
  
2048 9.0 71959.2 -0916.4  
2049 9.5 71959.8 -0947.0  
2050 9.1 72000.0 -0924.3  
2051 9.8 72002.0 -0924.9  
2052 8.9 72002.8 -0930.7  
2053 9.6 72005.9 -0931.7  
2054 9.5 72018.1 -0941.8  
2055 9.3 72021.6 -0930.8  
2056 9.7 72028.7 -0901.7  
2057 10.1 72041.0 -0953.0  
  
2058 8.7 72041.9 -0956.2  
2059 9.0 72052.7 -0922.4  
2060 9.4 72054.4 -0917.3  
2061 9.1 72102.5 -0909.0  
2062 9.2 72104.9 -0946.1  
2063 9.7 72105.2 -0955.0  
2064 8.7 72109.1 -0900.5  
2065 9.8 72115.9 -0946.7  
2066 9.7 72130.8 -0932.1  
2067 9.5 72132.3 -0940.7  
  
2068 9.3 72133.5 -0951.2  
2069 6.8 72140.3 -0944.6  
2070 9.4 72150.6 -0900.7  
2071 9.4 72154.2 -0952.0  
2072 9.8 72208.6 -0926.2  
2073 9.4 72211.5 -0921.7  
2074 9.4 72213.8 -0948.6  
2075 9.6 72217.3 -0909.2  
2076 9.8 72226.1 -0930.8  
2077 9.4 72229.9 -0910.7

2078 9.5 72237.7 -0957.6  
2079 9.2 72252.4 -0948.2  
2080 9.7 72255.0 -0955.8  
2081 9.4 72317.6 -0947.0  
2082 8.8 72328.4 -0924.1  
2083 9.1 72334.4 -0949.8  
2084 7.8 72346.8 -0900.5  
2085 6.3 72351.3 -0928.7  
2086 7.0 72405.4 -0948.9  
2087 9.0 72419.8 -0958.5  
  
2088 9.8 72420.6 -0939.2  
2089 9.8 72423.8 -0903.7  
2090 8.9 72442.5 -0958.8  
2091 9.8 72457.3 -0950.3  
2092 9.7 72511.1 -0908.2  
2093 9.5 72513.6 -0957.1  
2094 8.9 72515.1 -0957.3  
2095 9.3 72538.7 -0942.3  
2096 7.5 72546.4 -0921.9  
2097 7.3 72548.9 -0906.4  
  
2098 9.0 72606.3 -0924.1  
2099 9.8 72607.2 -0908.5  
2100 9.3 72610.8 -0932.3  
2101 9.0 72613.8 -0917.4  
2102 9.5 72630.1 -0939.0  
2103 9.7 72631.7 -0948.1  
2104 9.6 72640.1 -0932.8  
2105 9.8 72646.3 -0916.9  
2106 8.5 72652.9 -0921.8  
2107 10.1 72654.3 -0926.2  
  
2108 9.3 72704.4 -0926.8  
2109 9.2 72712.3 -0920.0  
2110 9.8 72715.2 -0911.4  
2111 9.8 72715.8 -0904.6  
2112 9.4 72726.3 -0924.0  
2113 9.4 72734.7 -0943.8  
2114 8.2 72737.9 -0932.9  
2115 9.5 72757.6 -0924.7  
2116 9.5 72813.1 -0909.8  
2117 9.0 72816.2 -0912.1  
  
2118 9.8 72819.8 -0941.0  
2119 10.1 72820.7 -0954.9  
2120 9.3 72823.2 -0913.5  
2121 8.6 72834.8 -0927.8  
2122 10.1 72835.2 -0944.9  
2123 9.8 72841.0 -0918.4  
2124 9.0 72849.3 -0942.9  
2125 9.4 72851.9 -0932.7  
2126 10.1 72858.3 -0949.8  
2127 9.8 72903.6 -0939.5  
  
2128 9.4 72920.4 -0948.7  
2129 8.2 72921.9 -0957.0  
2130 9.5 72933.2 -0945.3  
2131 9.8 72935.4 -0935.5  
2132 9.8 72931.5 -0927.2  
2133 9.5 72937.3 -0950.6  
2134 9.0 72943.1 -0951.8  
2135 8.7 72946.8 -0917.8  
2136 9.8 72947.7 -0908.6  
2137 9.3 72953.7 -0950.8  
  
2138 9.7 72953.8 -0931.1  
2139 9.7 73035.3 -0947.4  
2140 9.3 73039.1 -0957.4  
2141 10.1 73039.9 -0958.7  
2142 9.8 73040.0 -0939.1  
2143 7.8 73043.5 -0920.2  
2144 9.8 73106.1 -0906.7  
2145 10.1 73111.0 -0950.1  
2146 9.3 73111.7 -0917.6  
2147 9.4 73121.4 -0929.5  
  
2148 9.0 73128.1 -0930.2  
2149 8.7 73137.7 -0943.6  
2150 9.5 73144.8 -0950.0  
2151 9.8 73151.6 -0909.8  
2152 9.5 73156.7 -0956.4  
2153 9.1 73200.8 -0956.4  
2154 8.7 73203.1 -0938.3  
2155 9.3 73212.3 -0945.5  
2156 8.2 73214.1 -0937.7  
2157 8.4 73224.7 -0952.2  
  
2158 9.4 73226.2 -0917.4  
2159 9.1 73243.3 -0923.5  
2160 9.4 73246.6 -0909.8  
2161 9.4 73259.9 -0909.4  
2162 9.4 73307.9 -0942.5  
2163 9.5 73315.9 -0937.8  
2164 9.4 73319.3 -0925.7  
2165 8.8 73340.5 -0902.4  
2166 9.1 73345.3 -0921.1  
2167 9.7 73346.5 -0918.2

2168 9.8 73348.6 -0908.0  
2169 8.2 73350.2 -0912.7  
2170 9.8 73412.2 -0952.1  
2171 9.4 73414.7 -0950.8  
2172 4.0 73419.3 -0913.3  
2173 10.1 73432.4 -0957.1  
2174 9.8 73441.2 -0905.7  
2175 9.0 73441.6 -0907.8  
2176 9.0 73445.4 -0909.0  
2177 9.5 73446.9 -0942.4  
  
2178 9.4 73452.2 -0940.2  
2179 9.5 73455.1 -0942.8  
2180 9.3 73456.6 -0913.5  
2181 10.1 73515.7 -0946.2  
2182 10.1 73529.8 -0920.8  
2183 8.5 73542.4 -0917.8  
2184 9.5 73546.1 -0913.7  
2185 10.1 73602.4 -0931.4  
2186 9.5 73603.5 -0901.0  
2187 9.5 73610.9 -0929.5  
  
2188 9.0 73621.2 -0915.3  
2189 9.8 73623.3 -0921.2  
2190 9.5 73638.1 -0959.2  
2191 7.5 73640.8 -0947.9  
2192 10.1 73652.7 -0954.0  
2193 9.5 73657.1 -0948.7  
2194 9.2 73708.7 -0957.2  
2195 9.8 73710.2 -0952.4  
2196 9.8 73710.4 -0947.6  
2197 9.0 73716.5 -0901.8  
  
2198 9.2 73717.9 -0955.2  
2199 8.0 73726.1 -0913.1  
2200 8.7 73732.2 -0955.1  
2201 10.1 73753.3 -0959.3  
2202 9.4 73759.2 -0914.4  
2203 10.1 73801.1 -0958.0  
2204 9.7 73810.7 -0917.0  
2205 8.3 73814.0 -0956.6  
2206 9.6 73830.0 -0928.5  
2207 7.6 73834.1 -0948.7  
  
2208 9.1 73846.5 -0958.9  
2209 9.5 73849.6 -0942.7  
2210 9.0 73857.1 -0929.4  
2211 9.5 73858.9 -0945.5  
2212 9.1 73900.6 -0911.9  
2213 8.8 73902.6 -0925.5  
2214 8.3 73903.4 -0949.3  
2215 9.3 73904.8 -0908.7  
2216 9.3 73916.6 -0912.3  
2217 10.1 73919.2 -0952.1  
  
2218 9.2 73928.5 -0967.4  
2219 9.4 73948.7 -0922.2  
2220 9.3 73955.8 -0952.2  
2221 9.8 74016.2 -0952.3  
2222 10.1 74017.3 -0921.4  
2223 9.8 74025.6 -0947.2  
2224 9.2 74028.8 -0957.0  
2225 9.8 74035.0 -0933.6  
2226 9.3 74038.1 -0904.4  
2227 9.8 74045.2 -0932.7  
  
2228 8.1 74049.8 -0957.7  
2229 9.7 74054.2 -0929.0  
2230 9.7 74059.5 -0925.1  
2231 10.1 74119.7 -0922.1  
2232 9.1 74125.7 -0935.3  
2233 9.6 74201.9 -0948.9  
2234 8.3 74202.1 -0959.3  
2235 9.3 74215.6 -0912.4  
2236 8.9 74217.3 -0958.1  
2237 9.7 74225.6 -0955.3  
  
2238 9.4 74236.4 -0953.2  
2239 8.3 74242.8 -0935.2  
2240 9.3 74244.0 -0950.9  
2241 9.4 74248.6 -0954.9  
2242 9.7 74249.0 -0953.1  
2243 9.5 74253.1 -0953.5  
2244 9.3 74259.2 -0938.1  
2245 9.6 74301.1 -0907.0  
2246 9.3 74310.3 -0923.4  
2247 9.6 74311.9 -0904.2  
  
2248 9.2 74326.0 -0955.1  
2249 9.8 74349.2 -0923.0  
2250 9.8 74357.4 -0900.4  
2251 8.2 74402.4 -0957.2  
2252 10.1 74407.9 -0901.5  
2253 8.9 74414.7 -0916.0  
2254 7.2 74423.7 -0902.3  
2255 9.8 74435.6 -0928.9  
2256 8.8 74446.5 -0931.2  
2257 9.8 74455.6 -0951.0

-09 2257 7h44m



-09 2258 7h45m

2258 7.7 74500.7 -0917.1  
2259 9.1 74505.6 -0943.3  
2260 8.6 74510.3 -0953.1  
2261 9.5 74514.1 -0907.6  
2262 9.1 74520.4 -0902.9  
2263 9.1 74540.9 -0938.9  
2264 9.4 74541.8 -0904.8  
2265 9.8 7460.8 -0941.0  
2266 9.4 74608.5 -0947.6  
2267 9.4 74611.6 -0952.3  
  
2268 9.7 74611.9 -0929.9  
2269 9.1 74623.7 -0951.1  
2270 8.9 74629.9 -0935.1  
2271 9.4 74652.3 -0945.0  
2272 9.8 74655.4 -0908.0  
2273 9.5 74717.0 -0943.8  
2274 9.5 74719.3 -0958.9  
2275 8.0 74726.8 -0924.9  
2276 9.8 74740.4 -0905.7  
2277 9.5 74743.5 -0911.8  
  
2278 9.7 74744.1 -0956.8  
2279 9.6 74746.9 -0957.3  
2280 9.5 74753.2 -0936.0  
2281 9.5 74759.5 -0911.1  
2282 8.8 74802.1 -0923.4  
2283 9.4 74823.2 -0927.3  
2284 9.8 74824.8 -0928.7  
2285 9.8 74841.0 -0912.4  
2286 9.5 74854.9 -0934.0  
2287 8.1 74901.4 -0925.4  
  
2288 9.5 74908.5 -0910.9  
2289 7.8 74912.4 -0928.7  
2290 9.5 74923.4 -0957.5  
2291 9.4 74926.2 -0916.7  
2292 9.2 74945.6 -0943.4  
2293 9.8 74946.3 -0931.2  
2294 9.0 74952.1 -0916.1  
2295 9.3 75007.1 -0924.5  
2296 9.5 75009.5 -0942.5  
2297 9.4 75023.9 -0939.2  
  
2298 8.7 75024.6 -0926.3  
2299 9.7 75025.4 -0921.0  
2300 9.8 75035.9 -0934.4  
2301 9.2 75044.6 -0947.8  
2302 9.7 75045.6 -0950.0  
2303 9.8 75045.9 -0925.8  
2304 9.8 75053.7 -0957.5  
2305 9.8 75058.4 -0941.7  
2306 9.5 75059.1 -0925.8  
2307 9.0 75105.1 -0915.0  
  
2308 9.0 75106.6 -0915.0  
2309 9.8 75110.0 -0943.2  
2310 9.2 75127.6 -0932.1  
2311 8.2 75144.2 -0941.0  
2312 9.3 75149.5 -0942.3  
2313 9.2 75201.2 -0951.0  
2314 9.8 75207.2 -0908.1  
2315 9.5 75208.9 -0924.2  
2316 9.8 75221.0 -0947.0  
2317 9.1 75224.8 -0902.3  
  
2318 9.4 75232.8 -0958.3  
2319 9.8 75240.0 -0943.4  
2320 9.5 75306.7 -0921.7  
2321 9.4 75309.5 -0914.0  
2322 9.1 75315.7 -0937.4  
2323 9.5 75322.9 -0940.2  
2324 8.2 75325.0 -0956.6  
2325 9.5 75326.9 -0922.5  
2326 9.3 75345.9 -0948.3  
2327 9.6 75402.5 -0943.0  
  
2328 9.5 75406.4 -0915.0  
2329 9.4 75416.2 -0958.2  
2330 9.0 75417.8 -0936.8  
2331 9.3 75431.7 -0922.4  
2332 8.5 75438.0 -0929.8  
2333 9.4 75454.6 -0951.3  
2334 9.1 75456.2 -0939.7  
2335 9.1 75511.5 -0938.8  
2336 9.4 75521.4 -0904.9  
2337 9.4 75521.6 -0953.0  
  
2338 9.0 75525.1 -0938.7  
2339 9.4 75538.7 -0922.3  
2340 9.5 75543.6 -0920.7  
2341 8.8 75546.6 -0902.6  
2342 9.5 75558.2 -0920.5  
2343 9.2 75613.3 -0955.8  
2344 8.5 75618.1 -0929.2  
2345 9.5 75619.4 -0903.0  
2346 8.9 75625.4 -0938.3  
2347 9.1 75636.3 -0940.1

2348 9.3 75704.2 -0948.1  
2349 10.1 75709.9 -0945.3  
2350 9.5 75723.4 -0946.5  
2351 8.2 75726.9 -0955.2  
2352 8.1 75734.3 -0950.5  
2353 9.4 75739.2 -0929.3  
2354 9.7 75746.4 -0958.5  
2355 9.0 75751.1 -0922.3  
2356 9.4 75752.9 -0910.7  
2357 9.5 75754.4 -0909.3  
  
2358 8.5 75802.3 -0917.4  
2359 10.1 75803.2 -0913.4  
2360 9.5 75817.9 -0942.9  
2361 8.2 75827.8 -0931.2  
2362 9.1 75830.6 -0934.7  
2363 6.6 75832.9 -0942.8  
2364 9.4 75837.1 -0951.0  
2365 9.6 75906.5 -0954.9  
2366 9.2 75908.6 -0920.5  
2367 8.0 75919.4 -0914.6  
  
2368 10.1 75925.9 -0906.2  
2369 9.3 75932.4 -0942.4  
2370 9.2 75942.4 -0912.7  
2371 9.5 75949.2 -0927.6  
2372 8.8 75950.8 -0915.9  
2373 9.5 75953.0 -0912.1  
2374 9.8 75955.4 -0958.8  
2375 9.3 75956.7 -0942.5  
2376 9.7 80000.3 -0946.7  
2377 9.8 80016.1 -0944.9  
  
2378 9.8 80017.1 -0903.5  
2379 9.5 80025.6 -0926.5  
2380 9.6 80037.1 -0906.4  
2381 10.1 80040.4 -0957.5  
2382 9.5 80046.3 -0951.4  
2383 9.0 80047.5 -0959.1  
2384 9.9 80054.5 -0946.7  
2385 9.1 80056.1 -0907.4  
2386 9.2 80109.3 -0910.4  
2387 8.8 80117.2 -0941.5  
  
2388 9.4 80121.9 -0947.7  
2389 8.9 80123.1 -0956.1  
2390 9.2 80137.1 -0933.4  
2391 9.7 80152.8 -0919.8  
2392 9.2 80156.2 -0918.6  
2393 9.8 80210.3 -0946.2  
2394 9.8 80218.9 -0946.2  
2395 9.3 80230.6 -0917.1  
2396 9.4 80239.1 -0936.9  
2397 8.6 80243.6 -0933.3  
  
2398 9.3 80245.5 -0902.0  
2399 9.4 80303.6 -0904.9  
2400 9.3 80306.1 -0910.2  
2401 9.4 80316.0 -0930.8  
2402 9.1 80322.0 -0926.5  
2403 9.8 80332.8 -0917.1  
2404 7.3 80333.1 -0910.9  
2405 9.5 80335.6 -0900.6  
2406 9.4 80350.7 -0921.5  
2407 9.3 80401.1 -0916.0  
  
2408 9.8 80401.3 -0907.7  
2409 9.0 80407.0 -0930.2  
2410 8.5 80413.7 -0936.1  
2411 9.4 80418.2 -0935.0  
2412 9.7 80435.6 -0908.6  
2413 9.6 80443.4 -0918.0  
2414 9.2 80507.2 -0940.2  
2415 9.5 80510.8 -0909.0  
2416 9.4 80513.8 -0956.3  
2417 9.4 80515.9 -0932.9  
  
2418 9.7 80516.7 -0928.7  
2419 9.4 80532.1 -0900.1  
2420 9.4 80541.4 -0943.0  
2421 9.8 80548.6 -0916.8  
2422 9.5 80553.7 -0920.9  
2423 9.5 80608.6 -0905.2  
2424 9.0 80626.5 -0959.3  
2425 9.5 80628.6 -0957.6  
2426 9.2 80631.5 -0956.4  
2427 9.0 80632.2 -0923.5  
  
2428 9.8 80638.3 -0941.2  
2429 9.0 80641.1 -0917.7  
2430 9.7 80645.7 -0939.8  
2431 9.7 80650.6 -0948.6  
2432 9.8 80652.8 -0932.0  
2433 9.5 80658.1 -0949.4  
2434 8.4 80701.1 -0951.8  
2435 8.0 80701.4 -0935.9  
2436 9.2 80717.4 -0946.0  
2437 9.5 80718.6 -0922.2

2438 9.7 80730.8 -0958.0  
2439 9.1 80733.2 -0913.1  
2440 9.2 80753.2 -0935.7  
2441 9.5 80801.0 -0922.6  
2442 9.5 80820.3 -0940.6  
2443 9.5 80829.1 -0958.6  
2444 9.5 80829.2 -0953.3  
2445 8.2 80835.5 -0901.1  
2446 9.4 80842.9 -0959.3  
2447 9.5 80859.9 -0955.7  
  
2448 8.0 80900.6 -0920.3  
2449 9.8 80905.0 -0909.2  
2450 9.1 80918.0 -0900.8  
2451 9.5 80926.1 -0955.5  
2452 10.1 80938.0 -0925.2  
2453 9.8 80951.7 -0914.6  
2454 8.9 81018.8 -0921.6  
2455 9.1 81022.5 -0937.2  
2456 9.4 81023.4 -0941.6  
2457 9.3 81035.8 -0922.8  
  
2458 9.2 81036.1 -0948.6  
2459 9.4 81041.5 -0953.0  
2460 9.3 81059.7 -0948.0  
2461 9.5 81105.1 -0923.9  
2462 9.8 81121.4 -0935.9  
2463 7.5 81122.8 -0940.9  
2464 9.9 81129.8 -0958.9  
2465 9.1 81144.3 -0952.2  
2466 8.8 81152.4 -0933.5  
2467 9.0 81157.0 -0918.2  
  
2468 9.7 81158.0 -0957.7  
2469 9.1 81207.1 -0924.0  
2470 9.8 81210.2 -0937.4  
2471 6.2 81218.4 -0943.0  
2472 8.0 81226.0 -0921.1  
2473 9.8 81248.1 -0917.4  
2474 9.2 81253.3 -0957.7  
2475 10.1 81300.5 -0939.1  
2476 8.5 81304.7 -0953.1  
2477 9.2 81304.7 -0933.9  
  
2478 9.0 81330.6 -0914.4  
2479 9.5 81356.2 -0903.6  
2480 9.3 81357.3 -0937.6  
2481 9.8 81415.0 -0929.6  
2482 9.8 81428.0 -0906.5  
2483 9.8 81428.6 -0930.5  
2484 9.0 81430.8 -0923.5  
2485 7.6 81448.7 -0930.6  
2486 9.0 81449.8 -0911.2  
2487 9.3 81450.7 -0944.6  
  
2488 9.8 81508.4 -0953.6  
2489 9.3 81510.1 -0918.6  
2490 8.7 81521.4 -0959.0  
2491 10.1 81531.3 -0948.5  
2492 8.4 81536.9 -0932.3  
2493 8.5 81537.2 -0903.2  
2494 9.8 81551.7 -0908.0  
2495 9.9 81554.2 -0933.3  
2496 9.5 81637.0 -0926.7  
2497 9.0 81639.4 -0900.2  
  
2498 8.2 81640.5 -0930.3  
2499 9.6 81700.1 -0957.2  
2500 9.0 81703.6 -0904.7  
2501 8.5 81703.7 -0909.8  
2502 9.8 81717.1 -0930.1  
2503 9.8 81731.8 -0945.5  
2504 8.5 81733.5 -0934.1  
2505 9.7 81746.5 -0920.7  
2506 9.5 81756.3 -0947.5  
2507 9.6 81805.0 -0951.3  
  
2508 7.2 81810.7 -0919.4  
2509 10.1 81811.3 -0948.7  
2510 9.3 81814.4 -0911.8  
2511 9.7 81818.6 -0933.7  
2512 8.5 81820.6 -0948.4  
2513 9.0 81840.2 -0916.8  
2514 9.7 81843.1 -0957.4  
2515 8.8 81849.5 -0915.6  
2516 8.3 81850.8 -0955.1  
2517 9.8 81859.2 -0910.1  
  
2518 9.0 81917.3 -0901.0  
2519 9.8 81956.6 -0948.1  
2520 10.1 82000.4 -0927.0  
2521 9.8 82002.6 -0924.1  
2522 9.4 82010.9 -0911.6  
2523 9.2 82016.9 -0936.2  
2524 9.2 82026.4 -0907.8  
2525 9.3 82048.3 -0948.4  
2526 9.5 82059.5 -0917.8  
2527 9.5 82105.4 -0939.5

2528 9.5 82125.5 -0920.6  
2529 8.3 82126.6 -0945.4  
2530 9.1 82142.5 -0922.7  
2531 9.5 82150.5 -0938.1  
2532 6.3 82152.4 -0916.2  
2533 9.3 82214.9 -0938.2  
2534 9.1 82220.9 -0951.4  
2535 9.4 82243.0 -0930.1  
2536 9.2 82252.0 -0946.4  
2537 9.8 82252.4 -0942.6  
  
2538 9.5 82254.3 -0947.9  
2539 7.0 82254.5 -0959.4  
2540 9.7 82302.0 -0944.8  
2541 9.5 82317.9 -0900.8  
2542 8.0 82332.8 -0948.1  
2543 7.3 82338.2 -0943.1  
2544 9.6 82340.4 -0902.8  
2545 8.0 82342.5 -0922.0  
2546 9.4 82351.5 -0933.9  
2547 9.0 82356.1 -0941.0  
  
2548 10.1 82358.7 -0946.0  
2549 9.9 82359.6 -0952.0  
2550 8.3 82415.5 -0926.0  
2551 9.0 82419.4 -0915.9  
2552 8.9 82430.8 -0902.9  
2553 9.4 82431.7 -0959.5  
2554 9.2 82433.9 -0945.7  
2555 10.1 82502.6 -0936.5  
2556 9.9 82513.9 -0926.7  
2557 9.3 82529.8 -0900.3  
  
2558 9.5 82533.3 -0957.5  
2559 9.5 82536.7 -0944.5  
2560 9.5 82545.4 -0925.7  
2561 9.7 82551.3 -0956.7  
2562 9.7 82553.8 -0948.4  
2563 9.1 82556.4 -0903.9  
2564 9.0 82610.6 -0907.5  
2565 9.8 82616.7 -0946.8  
2566 10.1 82617.5 -0949.3  
2567 10.1 82621.2 -0942.7  
  
2568 9.4 82622.4 -0920.0  
2569 8.1 82625.1 -0929.5  
2570 9.0 82633.3 -0931.2  
2571 7.3 82647.8 -0930.5  
2572 9.0 82706.5 -0923.0  
2573 10.1 82709.8 -0906.8  
2574 7.5 82711.3 -0927.4  
2575 9.7 82714.3 -0907.8  
2576 9.4 82736.6 -0939.0  
2577 9.2 82749.7 -0925.5  
  
2578 9.2 82754.8 -0952.5  
2579 9.9 82806.4 -0930.1  
2580 10.1 82811.1 -0939.1  
2581 8.7 82812.4 -0953.0  
2582 9.8 82818.7 -0925.3  
2583 8.6 82820.8 -0929.2  
2584 9.6 82827.0 -0929.9  
2585 9.8 82829.3 -0910.2  
2586 9.4 82835.4 -0943.0  
2587 9.0 82836.6 -0953.5  
  
2588 9.5 82910.0 -0951.0  
2589 9.5 82910.4 -0921.4  
2590 9.5 82917.6 -0947.8  
2591 9.6 82926.0 -0925.7  
2592 9.0 82930.0 -0957.1  
2593 8.7 82937.5 -0951.0  
2594 8.2 82938.2 -0942.0  
2595 7.0 82939.9 -0912.7  
2596 9.8 82944.6 -0903.5  
2597 8.5 82954.1 -0902.0  
  
2598 9.7 82958.2 -0921.6  
2599 8.9 83002.1 -0915.0  
2600 9.8 83022.2 -0907.1  
2601 9.8 83039.0 -0955.2  
2602 9.3 83043.7 -0941.9  
2603 9.4 83053.0 -0902.5  
2604 9.6 83100.7 -0932.9  
2605 9.3 83130.7 -0927.7  
2606 9.6 83145.4 -0959.6  
2607 8.0 83153.7 -0931.4  
  
2608 9.1 83154.3 -0944.2  
2609 9.8 83212.5 -0943.5  
2610 8.0 83222.6 -0904.1  
2611 9.4 83238.1 -0932.6  
2612 7.7 83242.8 -0904.6  
2613 8.0 83244.2 -0958.2  
2614 9.5 83244.3 -0918.0  
2615 9.4 83251.2 -0942.4  
2616 9.5 83300.0 -0905.0  
2617 9.2 83322.5 -0920.4

-09 2617 8h33m



-09 2618 8h33m

2618 9.1 83326.0 -0912.1  
2619 8.9 83347.5 -0905.6  
2620 9.5 83351.3 -0908.0  
2621 7.8 83353.7 -0905.2  
2622 9.4 83461.5 -0944.7  
2623 8.7 83433.3 -0944.6  
2624 9.2 83444.0 -0958.2  
2625 9.1 83455.1 -0921.0  
2626 9.8 83506.6 -0941.6  
2627 9.8 83510.7 -0934.3

2628 9.7 83511.5 -0951.6  
2629 9.5 83542.9 -0955.7  
2630 6.3 83553.5 -0917.2  
2631 8.9 83556.4 -0902.3  
2632 9.4 83600.4 -0955.1  
2633 9.5 83605.2 -0923.6  
2634 10.1 83609.8 -0927.0  
2635 8.9 83626.5 -0911.8  
2636 9.6 83642.7 -0900.9  
2637 9.5 83642.9 -0938.7

2638 10.1 83711.0 -0901.2  
2639 9.4 83719.0 -0927.2  
2640 9.5 83729.0 -0905.1  
2641 8.8 83733.3 -0957.8  
2642 9.5 83755.4 -0900.6  
2643 9.4 83759.5 -0916.6  
2644 10.1 83813.2 -0925.0  
2645 9.7 83824.6 -0914.8  
2646 9.7 83837.8 -0955.7  
2647 9.1 83858.4 -0909.0

2648 7.6 83859.8 -0943.3  
2649 9.2 83902.0 -0937.7  
2650 9.5 83908.9 -0916.7  
2651 9.1 83915.8 -0943.7  
2652 8.6 83936.5 -0942.1  
2653 10.1 83949.3 -0911.4  
2654 9.4 83949.5 -0928.5  
2655 9.3 83951.1 -0908.4  
2656 9.4 83959.7 -0902.9  
2657 9.3 84025.0 -0952.0

2658 9.5 84025.5 -0938.4  
2659 9.8 84052.3 -0948.0  
2660 9.5 84067.4 -0902.8  
2661 9.4 84130.7 -0946.1  
2662 9.5 84135.9 -0919.2  
2663 9.8 84136.9 -0910.0  
2664 10.1 84160.0 -0932.3  
2665 9.6 84171.1 -0916.5  
2666 9.0 84229.8 -0916.4  
2667 9.1 84244.5 -0936.4

2668 9.5 84249.8 -0907.9  
2669 9.1 84254.4 -0922.1  
2670 9.1 84257.9 -0915.9  
2671 9.8 84308.2 -0950.5  
2672 9.8 84316.7 -0945.9  
2673 9.1 84415.9 -0927.0  
2674 9.5 84416.8 -0940.1  
2675 9.0 84425.4 -0914.1  
2676 9.2 84443.2 -0914.5  
2677 9.6 84516.0 -0911.3

2678 8.9 84525.9 -0921.5  
2679 8.3 84528.9 -0934.8  
2680 9.0 84541.9 -0931.2  
2681 9.4 84556.2 -0920.7  
2682 9.6 84641.9 -0956.7  
2683 9.7 84647.1 -0954.3  
2684 9.3 84649.6 -0921.5  
2685 9.4 84711.8 -0912.5  
2686 9.0 84713.5 -0912.6  
2687 9.8 84719.2 -0949.0

2688 9.8 84744.9 -0959.2  
2689 9.4 84751.1 -0941.0  
2690 9.5 84751.7 -0943.4  
2691 9.5 84758.0 -0939.2  
2692 9.2 84812.5 -0953.0  
2693 7.5 84826.4 -0922.5  
2694 8.8 84831.4 -0922.7  
2695 8.5 84846.0 -0947.2  
2696 8.5 84859.8 -0904.1  
2697 9.8 85022.9 -0943.6

2698 9.8 85024.0 -0934.3  
2699 9.7 85025.9 -0918.5  
2700 9.9 85027.5 -0926.4  
2701 7.3 85039.9 -0931.7  
2702 9.4 85104.0 -0929.8  
2703 9.2 85112.3 -0929.4  
2704 9.5 85121.8 -0919.7  
2705 9.6 85124.6 -0922.8  
2706 10.1 85151.4 -0947.6  
2707 8.6 85152.3 -0908.8

2708 9.7 85203.5 -0935.9  
2709 9.1 85228.1 -0928.9  
2710 9.1 85235.5 -0956.7  
2711 9.1 85256.2 -0956.5  
2712 9.1 85256.6 -0935.0  
2713 9.3 85317.4 -0926.3  
2714 9.5 85319.9 -0939.7  
2715 8.7 85323.7 -0901.5  
2716 10.1 85337.7 -0953.8  
2717 9.4 85342.2 -0916.8

2718 8.9 85400.2 -0956.0  
2719 9.5 85417.3 -0934.9  
2720 9.3 85422.4 -0907.7  
2721 9.5 85445.6 -0926.3  
2722 10.1 85452.7 -0957.8  
2723 8.8 85455.5 -0908.5  
2724 9.2 85509.6 -0958.9  
2725 9.4 85526.2 -0957.7  
2726 8.6 85558.2 -0941.3  
2727 9.7 85607.0 -0942.2

2728 9.3 85608.1 -0940.0  
2729 10.1 85609.7 -0945.6  
2730 9.8 85639.6 -0947.4  
2731 9.4 85639.9 -0929.4  
2732 9.1 85727.1 -0931.5  
2733 7.0 85757.0 -0932.8  
2734 9.1 85805.1 -0906.7  
2735 8.3 85808.2 -0907.9  
2736 9.3 85822.1 -0906.6  
2737 9.4 85829.7 -0919.3

2738 9.4 85839.7 -0919.3  
2739 8.1 85910.2 -0933.4  
2740 7.3 85930.1 -0910.6  
2741 8.2 85940.8 -0942.4  
2742 9.2 85947.1 -0902.8  
2743 9.5 90008.3 -0944.0  
2744 9.8 90042.4 -0943.1  
2745 9.6 90042.7 -0903.7  
2746 7.4 90044.0 -0954.7  
2747 7.5 90046.1 -0916.4

2748 9.2 90113.5 -0935.7  
2749 8.8 90119.8 -0952.6  
2750 9.0 90203.7 -0932.9  
2751 9.4 90206.5 -0947.0  
2752 9.2 90209.1 -0925.4  
2753 8.8 90209.8 -0907.2  
2754 9.3 90234.0 -0948.0  
2755 7.3 90238.6 -0921.1  
2756 9.2 90256.7 -0910.3  
2757 9.4 90277.1 -0950.6

2758 9.5 90229.5 -0939.2  
2759 9.8 90336.2 -0905.5  
2760 9.2 90359.5 -0932.2  
2761 9.0 90408.8 -0959.0  
2762 9.8 90409.9 -0903.6  
2763 9.4 90426.2 -0917.1  
2764 9.1 90505.2 -0911.7  
2765 9.3 90527.0 -0946.6  
2766 9.2 90528.5 -0925.8  
2767 9.3 90530.1 -0900.1

2768 9.3 90614.5 -0947.7  
2769 9.8 90615.2 -0921.9  
2770 4.3 90627.3 -0939.7  
2771 10.1 90650.4 -0937.6  
2772 10.1 90658.8 -0936.0  
2773 9.8 90703.7 -0902.4  
2774 9.3 90714.2 -0939.0  
2775 9.6 90725.4 -0904.9  
2776 9.2 90739.1 -0928.2  
2777 8.9 90809.4 -0931.0

2778 9.4 90816.6 -0900.6  
2779 9.0 90836.4 -0953.5  
2780 9.6 90841.8 -0914.6  
2781 9.0 90845.7 -0929.3  
2782 9.3 90854.8 -0918.7  
2783 9.6 90854.9 -0904.1  
2784 9.2 90858.3 -0948.3  
2785 9.0 90825.7 -0922.7  
2786 10.1 90926.1 -0919.1  
2787 9.2 90938.3 -0904.6

2788 7.4 90956.0 -0901.1  
2789 9.4 91042.9 -0926.0  
2790 9.2 91115.3 -0906.4  
2791 10.1 91127.6 -0926.0  
2792 7.8 91140.9 -0948.6  
2793 9.1 91203.6 -0944.5  
2794 9.8 91206.9 -0954.5  
2795 10.1 91214.7 -0928.6  
2796 9.7 91232.2 -0906.8  
2797 9.2 91241.7 -0912.3

2798 9.8 91244.4 -0952.3  
2799 9.1 91304.1 -0919.1  
2800 9.8 91304.4 -0955.4  
2801 7.3 91316.3 -0900.0  
2802 9.3 91335.1 -0916.3  
2803 9.8 91354.4 -0950.7  
2804 9.5 91410.7 -0917.2  
2805 9.5 91415.2 -0917.6  
2806 9.4 91428.8 -0930.9  
2807 9.8 91448.2 -0933.8

2808 7.9 91449.1 -0948.7  
2809 8.1 91500.1 -0917.2  
2810 10.1 91512.9 -0913.0  
2811 9.5 91517.2 -0917.1  
2812 9.6 91522.4 -0911.9  
2813 9.3 91527.5 -0920.9  
2814 9.4 91537.7 -0917.1  
2815 9.5 91544.6 -0901.2  
2816 6.8 91546.5 -0913.3  
2817 9.8 91616.3 -0937.6

2818 9.2 91625.8 -0958.0  
2819 9.9 91641.3 -0913.9  
2820 9.5 91717.4 -0912.0  
2821 9.7 91719.8 -0934.2  
2822 9.3 91734.8 -0917.1  
2823 9.2 91739.2 -0952.9  
2824 9.4 91743.8 -0931.9  
2825 8.7 91755.2 -0944.6  
2826 8.7 91810.3 -0913.2  
2827 9.0 91814.0 -0934.7

2828 9.0 91830.1 -0916.4  
2829 9.1 91833.4 -0911.1  
2830 8.3 91843.5 -0952.1  
2831 9.8 91900.5 -0912.7  
2832 9.3 91903.6 -0922.3  
2833 9.8 91910.7 -0950.3  
2834 9.2 91922.1 -0927.3  
2835 8.8 91939.9 -0927.5  
2836 9.3 92009.9 -0952.2  
2837 9.3 92029.3 -0952.5

2838 9.8 92033.2 -0956.3  
2839 9.8 92034.8 -0959.0  
2840 8.0 92046.0 -0910.0  
2841 7.5 92101.7 -0923.6  
2842 9.2 92112.5 -0940.7  
2843 7.0 92116.1 -0921.1  
2844 7.6 92117.8 -0941.6  
2845 7.5 92138.7 -0938.1  
2846 9.5 92212.0 -0935.6  
2847 9.3 92220.9 -0935.0

2848 9.2 92320.3 -0931.1  
2849 9.7 92330.7 -0931.8  
2850 8.8 92351.3 -0904.3  
2851 9.3 92353.9 -0936.5  
2852 9.0 92357.9 -0911.3  
2853 9.3 92359.7 -0952.9  
2854 8.0 92425.6 -0921.3  
2855 9.4 92432.5 -0918.4  
2856 5.8 92435.0 -0954.8  
2857 9.5 92447.6 -0952.9

2858 5.5 92452.1 -0944.1  
2859 9.3 92504.0 -0913.7  
2860 9.5 92530.5 -0923.5  
2861 8.9 92601.5 -0939.0  
2862 9.9 92602.4 -0925.1  
2863 8.3 92604.1 -0928.8  
2864 10.1 92613.5 -0940.1  
2865 9.5 92625.1 -0924.4  
2866 9.6 92634.0 -0926.1  
2867 9.5 92635.8 -0938.1

2868 9.4 92639.1 -0921.4  
2869 8.7 92643.7 -0941.7  
2870 9.4 92648.5 -0938.7  
2871 8.2 92656.6 -0955.4  
2872 9.4 92700.0 -0953.5  
2873 8.3 92725.2 -0919.3  
2874 9.6 92727.2 -0929.5  
2875 9.9 92746.3 -0903.6  
2876 8.9 92753.6 -0922.0  
2877 9.5 92804.3 -0911.5

2878 10.1 92806.4 -0919.9  
2879 9.6 92809.0 -0953.1  
2880 9.1 92814.5 -0939.9  
2881 4.9 92834.1 -0955.0  
2882 9.7 92910.9 -0957.1  
2883 9.4 92920.7 -0901.1  
2884 9.1 92927.5 -0914.9  
2885 9.1 92941.6 -0900.6  
2886 9.3 92949.1 -0948.7  
2887 9.4 92954.8 -0911.4

-09 2977 9h55m

2888 9.3 93009.0 -0938.4  
2889 9.4 93031.6 -0957.4  
2890 9.1 93100.2 -0959.5  
2891 10.1 93101.5 -0933.4  
2892 9.8 93147.8 -0935.3  
2893 8.9 93152.9 -0946.4  
2894 9.4 93212.5 -0937.4  
2895 9.2 93212.8 -0933.4  
2896 9.8 93238.8 -0917.7  
2897 9.4 93242.7 -0933.6

2898 5.9 93243.1 -0955.0  
2899 9.0 93246.3 -0936.5  
2900 9.5 93311.9 -0944.3  
2901 9.6 93332.4 -0942.5  
2902 10.1 93422.4 -0944.0  
2903 7.2 93422.5 -0906.6  
2904 9.5 93430.0 -0930.3  
2905 9.5 93507.8 -0937.0  
2906 9.8 93517.5 -0908.5  
2907 9.6 93534.6 -0920.1

2908 9.0 93545.2 -0931.5  
2909 9.5 93616.1 -0939.4  
2910 9.5 93624.5 -0927.1  
2911 8.7 93644.8 -0919.8  
2912 9.1 93732.4 -0907.0  
2913 9.8 93752.3 -0944.8  
2914 9.1 93755.5 -0904.9  
2915 10.1 93813.8 -0940.7  
2916 9.4 93842.1 -0926.0  
2917 9.2 93901.9 -0943.7

2918 9.3 93921.8 -0946.5  
2919 9.4 93928.9 -0946.9  
2920 7.9 93932.4 -0935.3  
2921 9.5 93945.7 -0932.3  
2922 7.0 93959.7 -0951.0  
2923 9.4 94002.0 -0917.1  
2924 9.3 94014.4 -0933.0  
2925 9.5 94103.6 -0931.8  
2926 8.7 94106.1 -0930.7  
2927 9.9 94110.4 -0925.8

2928 6.8 94136.6 -0914.5  
2929 9.7 94137.3 -0941.5  
2930 9.7 94144.0 -0942.5  
2931 8.9 94147.2 -0935.5  
2932 9.5 94156.4 -0917.3  
2933 9.1 94213.7 -0952.8  
2934 9.6 94218.5 -0938.1  
2935 8.9 94222.6 -0952.8  
2936 9.5 94244.7 -0934.1  
2937 9.8 94302.7 -0917.4

2938 8.7 94304.8 -0932.4  
2939 8.5 94305.2 -0922.7  
2940 10.1 94336.1 -0918.4  
2941 10.1 94346.7 -0948.7  
2942 10.1 94356.0 -0956.2  
2943 10.1 94358.7 -0957.9  
2944 9.6 94431.0 -0956.0  
2945 8.0 94455.4 -0910.0  
2946 8.7 94459.3 -0952.9  
2947 9.9 94517.0 -0921.3

2948 9.9 94517.7 -0911.2  
2949 9.6 94522.1 -0940.1  
2950 9.1 94537.0 -0931.3  
2951 9.5 94539.5 -0927.6  
2952 9.4 94543.3 -0902.8  
2953 7.1 94614.4 -0913.2  
2954 9.8 94618.5 -0949.5  
2955 8.6 94638.0 -0925.5  
2956 8.2 94649.2 -0954.4  
2957 9.5 94659.0 -0919.2

2958 10.1 94731.9 -0926.1  
2959 8.6 94751.4 -0928.4  
2960 9.4 94757.3 -0906.1  
2961 9.9 94767.2 -0941.2  
2962 9.0 94832.2 -0909.4  
2963 9.5 94846.3 -0944.3  
2964 9.8 94854.4 -0948.8  
2965 9.5 94864.3 -0906.1  
2966 8.4 94893.7 -0939.5  
2967 8.7 95014.3 -0912.1

2968 8.9 95031.7 -0903.3  
2969 9.5 95126.7 -0916.7  
2970 9.1 95154.5 -0930.9  
2971 9.2 95226.3 -0906.5  
2972 8.8 95230.1 -0956.8  
2973 8.8 95337.7 -0942.1  
2974 9.5 95411.4 -0927.6  
2975 8.8 95451.8 -0942.6  
2976 7.5 95501.8 -0944.1  
2977 9.0 95511.3 -0909.0



-09 2978 9h55m

-09 3337 11h32m

|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 2978 9.1 95525.2 -0920.0  | 3068 9.1 101756.6 -0954.8 | 3158 8.9 104504.5 -0907.0 | 3248 9.5 110840.7 -0928.9 |
| 2979 8.6 95547.0 -0932.3  | 3069 9.4 101804.1 -0919.5 | 3159 9.3 104518.0 -0920.1 | 3249 9.3 110841.7 -0902.7 |
| 2980 9.7 95556.8 -0939.9  | 3070 9.5 101805.3 -0930.3 | 3160 10. 104542.4 -0915.5 | 3250 10. 110915.0 -0900.7 |
| 2981 9.3 95613.0 -0954.6  | 3071 9.7 101824.0 -0906.2 | 3161 9.5 104551.0 -0903.6 | 3251 9.4 110915.9 -0909.6 |
| 2982 9.4 95618.8 -0920.0  | 3072 8.3 101840.5 -0917.9 | 3162 10. 104559.1 -0928.9 | 3252 9.8 110919.8 -0948.7 |
| 2983 10. 95633.8 -0918.5  | 3073 9.6 101915.9 -0913.6 | 3163 8.5 104605.0 -0959.0 | 3253 9.0 110937.8 -0937.3 |
| 2984 8.0 95640.7 -0927.2  | 3074 10. 101918.2 -0910.8 | 3164 8.8 104625.3 -0925.0 | 3254 9.8 110940.5 -0933.4 |
| 2985 8.6 95656.3 -0954.0  | 3075 9.6 101930.7 -0949.1 | 3165 9.5 104650.9 -0901.8 | 3255 10. 110941.0 -0908.7 |
| 2986 9.5 95706.7 -0915.6  | 3076 9.5 101942.5 -0921.6 | 3166 10. 104658.0 -0947.6 | 3256 9.6 111023.3 -0951.2 |
| 2987 9.5 95711.4 -0952.2  | 3077 9.3 101948.6 -0952.2 | 3167 8.0 104733.9 -0918.8 | 3257 9.4 111105.4 -0921.8 |
| 2988 8.4 95721.4 -0948.3  | 3078 9.8 101952.0 -0921.9 | 3168 9.4 104753.6 -0927.4 | 3258 8.7 111123.1 -0920.0 |
| 2989 9.8 95743.1 -0953.6  | 3079 9.5 102033.7 -0927.5 | 3169 9.7 104757.9 -0928.5 | 3259 9.2 111149.5 -0909.1 |
| 2990 8.5 95820.9 -0946.0  | 3080 9.5 102036.6 -0956.5 | 3170 9.6 104832.6 -0933.8 | 3260 9.5 111214.9 -0920.5 |
| 2991 9.5 95837.4 -0928.5  | 3081 9.4 102054.9 -0916.8 | 3171 9.0 104852.9 -0943.1 | 3261 9.3 111223.0 -0952.9 |
| 2992 9.1 95839.2 -0959.3  | 3082 7.3 102116.4 -0908.7 | 3172 8.0 104905.4 -0951.0 | 3262 9.2 111235.4 -0915.7 |
| 2993 9.4 95855.9 -0942.9  | 3083 9.4 102121.3 -0930.2 | 3173 9.0 104936.9 -0916.5 | 3263 9.1 111237.6 -0927.0 |
| 2994 9.8 95908.6 -0922.3  | 3084 9.6 102124.8 -0927.0 | 3174 8.3 104950.3 -0911.3 | 3264 9.8 111259.5 -0916.8 |
| 2995 9.8 95910.9 -0959.1  | 3085 9.5 102125.9 -0932.3 | 3175 9.6 105005.5 -0930.4 | 3265 6.3 111313.2 -0930.3 |
| 2996 9.2 95943.5 -0900.3  | 3086 10. 102138.0 -0959.1 | 3176 9.5 105019.3 -0911.0 | 3266 9.1 111354.8 -0900.3 |
| 2997 9.2 95953.1 -0913.5  | 3087 9.4 102146.5 -0946.4 | 3177 9.8 105024.3 -0929.2 | 3267 9.8 111440.4 -0922.4 |
| 2998 9.1 100011.3 -0949.8 | 3088 9.8 102205.7 -0933.0 | 3178 9.3 105055.4 -0959.2 | 3268 9.3 111447.7 -0938.3 |
| 2999 9.2 100018.6 -0912.8 | 3089 9.6 102209.5 -0929.8 | 3179 9.5 105108.8 -0913.1 | 3269 9.5 111509.2 -0939.6 |
| 3000 9.5 100029.8 -0928.9 | 3090 9.5 102217.9 -0951.1 | 3180 9.8 105117.0 -0943.8 | 3270 9.3 111510.6 -0942.3 |
| 3001 10. 100042.6 -0917.0 | 3091 9.8 102315.8 -0919.3 | 3181 9.0 105143.9 -0955.8 | 3271 9.5 111512.4 -0908.1 |
| 3002 9.8 100051.7 -0926.0 | 3092 9.8 102345.8 -0917.4 | 3182 6.8 105202.5 -0933.1 | 3272 9.8 111527.2 -0958.3 |
| 3003 9.1 100101.1 -0911.9 | 3093 9.7 102357.8 -0924.5 | 3183 9.1 105214.3 -0944.2 | 3273 9.7 111627.6 -0944.7 |
| 3004 9.5 100112.0 -0910.9 | 3094 8.6 102437.9 -0906.2 | 3184 9.5 105234.9 -0918.9 | 3274 8.2 111627.9 -0937.6 |
| 3005 9.5 100121.6 -0914.2 | 3095 8.7 102447.0 -0936.3 | 3185 8.5 105309.2 -0909.4 | 3275 8.8 111647.6 -0953.0 |
| 3006 9.3 100126.1 -0916.0 | 3096 9.2 102500.0 -0956.4 | 3186 9.8 105323.8 -0943.7 | 3276 9.8 111709.8 -0923.9 |
| 3007 9.8 100200.8 -0934.0 | 3097 9.1 102542.4 -0933.8 | 3187 9.4 105336.3 -0914.5 | 3277 9.5 111732.1 -0913.7 |
| 3008 8.8 100215.6 -0913.3 | 3098 9.4 102602.3 -0901.1 | 3188 9.7 105337.1 -0902.0 | 3278 9.6 111734.3 -0933.5 |
| 3009 9.9 100241.9 -0955.1 | 3099 9.2 102625.4 -0901.9 | 3189 9.7 105355.8 -0931.6 | 3279 9.4 111744.6 -0940.0 |
| 3010 9.7 100245.7 -0943.3 | 3100 9.6 102701.6 -0931.6 | 3190 9.2 105407.3 -0941.7 | 3280 9.5 111745.5 -0947.3 |
| 3011 9.1 100301.6 -0913.0 | 3101 7.3 102705.3 -0908.9 | 3191 9.1 105424.2 -0911.3 | 3281 9.8 111759.4 -0922.6 |
| 3012 8.7 100310.5 -0938.4 | 3102 9.5 102732.3 -0922.1 | 3192 9.7 105430.5 -0927.7 | 3282 9.8 111811.1 -0948.4 |
| 3013 9.4 100321.5 -0900.4 | 3103 9.7 102747.9 -0906.3 | 3193 7.8 105446.8 -0904.5 | 3283 7.3 111856.5 -0904.6 |
| 3014 9.5 100331.6 -0906.4 | 3104 9.8 102816.5 -0937.2 | 3194 10. 105506.7 -0948.7 | 3284 8.8 111858.8 -0956.9 |
| 3015 9.1 100413.6 -0910.5 | 3105 9.3 102817.3 -0904.1 | 3195 7.0 105514.7 -0912.7 | 3285 9.7 111859.5 -0911.6 |
| 3016 9.6 100442.3 -0928.3 | 3106 9.8 102826.8 -0913.9 | 3196 9.7 105521.2 -0912.7 | 3286 9.8 111913.2 -0928.4 |
| 3017 8.3 100510.4 -0936.4 | 3107 9.2 102857.9 -0943.2 | 3197 9.5 105536.7 -0914.7 | 3287 8.7 111926.6 -0936.5 |
| 3018 10. 100526.0 -0951.7 | 3108 6.5 102905.0 -0949.6 | 3198 8.7 105632.3 -0932.8 | 3288 7.8 111932.2 -0908.4 |
| 3019 9.7 100534.5 -0900.6 | 3109 8.8 102930.0 -0905.0 | 3199 9.4 105747.7 -0943.8 | 3289 9.8 111946.7 -0911.6 |
| 3020 10. 100534.8 -0913.2 | 3110 9.5 103029.8 -0957.5 | 3200 10. 105757.2 -0937.0 | 3290 9.0 112033.1 -0923.6 |
| 3021 9.1 100545.7 -0914.1 | 3111 9.6 103059.9 -0930.5 | 3201 8.2 105758.7 -0930.5 | 3291 10. 112040.5 -0957.5 |
| 3022 9.7 100559.1 -0954.9 | 3112 9.4 103100.7 -0927.9 | 3202 10. 105823.5 -0907.7 | 3292 8.8 112051.0 -0926.5 |
| 3023 9.5 100616.2 -0941.4 | 3113 8.5 103141.7 -0923.6 | 3203 10. 105829.1 -0925.4 | 3293 9.5 112109.7 -0917.3 |
| 3024 10. 100618.2 -0920.3 | 3114 9.8 103217.2 -0935.3 | 3204 9.3 105847.2 -0948.6 | 3294 10. 112115.2 -0911.8 |
| 3025 8.3 100629.3 -0904.3 | 3115 8.6 103221.2 -0916.3 | 3205 10. 105850.1 -0922.0 | 3295 10. 112128.4 -0952.3 |
| 3026 9.7 100650.3 -0946.3 | 3116 9.8 103306.6 -0930.1 | 3206 9.8 105932.8 -0928.4 | 3296 10. 112150.6 -0919.8 |
| 3027 9.0 100659.0 -0917.9 | 3117 9.2 103331.6 -0933.9 | 3207 8.0 105952.1 -0916.4 | 3297 9.6 112216.0 -0928.0 |
| 3028 9.5 100704.0 -0905.6 | 3118 9.0 103349.3 -0919.6 | 3208 9.8 110002.7 -0926.5 | 3298 7.0 112217.1 -0915.6 |
| 3029 9.3 100817.7 -0949.8 | 3119 9.5 103418.6 -0935.8 | 3209 9.3 110005.6 -0912.7 | 3299 9.4 112244.3 -0927.4 |
| 3030 9.0 100858.9 -0901.1 | 3120 9.0 103432.6 -0904.6 | 3210 9.8 110018.6 -0901.5 | 3300 8.9 112246.9 -0950.2 |
| 3031 9.4 100911.4 -0911.8 | 3121 10. 103446.6 -0915.4 | 3211 9.4 110019.9 -0933.1 | 3301 9.4 112321.0 -0947.7 |
| 3032 10. 100928.9 -0900.3 | 3122 9.3 103509.2 -0906.6 | 3212 9.9 110020.2 -0948.9 | 3302 10. 112323.1 -0932.5 |
| 3033 9.8 100931.9 -0913.4 | 3123 9.8 103520.7 -0904.9 | 3213 8.9 110029.1 -0922.2 | 3303 9.5 112338.7 -0936.7 |
| 3034 9.0 100938.3 -0902.9 | 3124 9.9 103552.1 -0911.3 | 3214 9.8 110044.3 -0904.1 | 3304 9.5 112339.4 -0923.8 |
| 3035 9.4 101001.2 -0943.1 | 3125 9.6 103556.7 -0952.7 | 3215 9.4 110053.2 -0938.1 | 3305 9.6 112405.1 -0915.4 |
| 3036 9.5 101022.4 -0911.8 | 3126 9.6 103607.8 -0946.0 | 3216 9.9 110115.4 -0914.6 | 3306 10. 112407.7 -0928.7 |
| 3037 9.0 101022.9 -0901.7 | 3127 9.8 103636.1 -0938.4 | 3217 9.5 110123.7 -0904.5 | 3307 9.3 112408.0 -0946.6 |
| 3038 9.9 101038.2 -0956.7 | 3128 9.3 103644.5 -0954.4 | 3218 9.8 110139.6 -0920.8 | 3308 9.1 112430.8 -0947.4 |
| 3039 9.8 101041.2 -0925.1 | 3129 9.4 103706.8 -0929.5 | 3219 8.6 110140.5 -0929.1 | 3309 9.8 112445.5 -0942.2 |
| 3040 9.1 101050.7 -0944.2 | 3130 8.9 103718.7 -0958.7 | 3220 8.8 110141.3 -0904.6 | 3310 9.5 112450.2 -0900.6 |
| 3041 9.5 101055.2 -0936.8 | 3131 9.8 103718.7 -0907.5 | 3221 8.2 110214.2 -0937.0 | 3311 9.5 112459.1 -0912.9 |
| 3042 9.6 101110.3 -0956.5 | 3132 9.4 103722.3 -0928.6 | 3222 9.5 110240.7 -0930.1 | 3312 9.6 112529.4 -0937.9 |
| 3043 9.5 101149.8 -0910.8 | 3133 8.5 103732.6 -0911.0 | 3223 9.5 110300.0 -0915.8 | 3313 9.5 112532.8 -0915.6 |
| 3044 9.2 101204.3 -0913.7 | 3134 7.1 103834.3 -0957.1 | 3224 9.8 110312.1 -0920.7 | 3314 9.5 112536.0 -0927.5 |
| 3045 9.4 101224.4 -0928.1 | 3135 10. 103851.1 -0920.2 | 3225 9.8 110342.9 -0942.1 | 3315 9.5 112548.4 -0958.1 |
| 3046 9.3 101240.1 -0957.7 | 3136 9.1 103910.0 -0940.9 | 3226 10. 110409.5 -0919.8 | 3316 9.5 112626.1 -0955.8 |
| 3047 9.8 101242.2 -0901.6 | 3137 9.5 103929.2 -0947.6 | 3227 8.6 110416.1 -0906.4 | 3317 10. 112627.2 -0926.5 |
| 3048 9.5 101247.3 -0906.4 | 3138 9.7 103942.9 -0950.7 | 3228 9.9 110435.6 -0946.8 | 3318 9.2 112630.2 -0929.2 |
| 3049 9.6 101318.1 -0922.1 | 3139 10. 104030.5 -0915.8 | 3229 8.7 110437.1 -0905.6 | 3319 9.8 112632.6 -0901.1 |
| 3050 9.5 101355.0 -0935.5 | 3140 9.5 104044.0 -0915.3 | 3230 9.7 110437.4 -0932.9 | 3320 9.5 112708.3 -0956.8 |
| 3051 9.5 101410.8 -0958.7 | 3141 8.2 104051.8 -0912.6 | 3231 9.7 110445.1 -0941.0 | 3321 1. 112712.4 -0945.5  |
| 3052 7.7 101431.1 -0902.6 | 3142 9.1 104119.0 -0904.5 | 3232 9.3 110459.6 -0914.1 | 3322 9.4 112754.1 -0906.5 |
| 3053 9.4 101444.8 -0936.7 | 3143 9.6 104121.1 -0904.5 | 3233 9.8 110506.1 -0926.4 | 3323 9.8 112819.5 -0919.4 |
| 3054 9.5 101447.7 -0935.2 | 3144 9.5 104159.6 -0952.2 | 3234 9.4 110506.5 -0945.7 | 3324 9.0 112847.3 -0935.4 |
| 3055 10. 101507.5 -0948.5 | 3145 9.0 104201.2 -0909.2 | 3235 8.4 110508.1 -0921.3 | 3325 8.2 112904.6 -0938.0 |
| 3056 9.2 101533.6 -0911.9 | 3146 9.9 104218.0 -0916.4 | 3236 8.7 110508.8 -0950.9 | 3326 9.2 112931.0 -0927.3 |
| 3057 9.1 101601.6 -0908.9 | 3147 5.5 104228.8 -0904.7 | 3237 8.7 110510.5 -0911.2 | 3327 9.8 112932.2 -0912.0 |
| 3058 9.0 101617.8 -0936.0 | 3148 8.4 104235.1 -0929.2 | 3238 8.2 110635.4 -0929.0 | 3328 9.2 112943.7 -0918.6 |
| 3059 9.4 101630.2 -0942.6 | 3149 9.8 104239.0 -0954.3 | 3239 10. 110648.5 -0925.5 | 3329 8.7 113019.9 -0959.1 |
| 3060 9.3 101648.5 -0913.0 | 3150 9.8 104258.1 -0902.3 | 3240 9.9 110654.5 -0904.8 | 3330 8.2 113034.8 -0902.0 |
| 3061 9.4 101648.6 -0943.9 | 3151 9.5 104305.6 -0950.0 | 3241 9.8 110700.7 -0959.0 | 3331 9.4 113123.0 -0910.2 |
| 3062 9.0 101652.9 -0910.6 | 3152 9.5 104314.0 -0900.5 | 3242 8.5 110702.3 -0903.0 | 3332 9.3 113134.6 -0904.9 |
| 3063 9.4 101701.4 -0939.7 | 3153 9.5 104416.5 -0939.7 | 3243 8.7 110719.0 -0907.0 | 3333 9.0 113149.4 -0943.9 |
| 3064 9.4 101706.6 -0907.8 | 3154 9.5 104421.5 -0924.2 | 3244 9.1 110723.0 -0921.7 | 3334 9.7 113153.5 -0932.4 |
| 3065 9.4 101714.3 -0927.3 | 3155 9.8 104431.9 -0902.3 | 3245 9.6 110738.7 -0927.4 | 3335 9.1 113156.4 -0918.9 |
| 3066 9.3 101740.9 -0905.8 | 3156 9.7 104444.3 -0932.1 | 3246 9.5 110813.0 -0914.8 | 3336 9.4 113209.8 -0931.9 |
| 3067 8.0 101744.0 -0903.6 | 3157 8.9 104445.4 -0911.2 | 3247 7.5 110837.8 -0949.6 | 3337 9.8 113221.9 -0932.5 |



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 3338 | 9.5 | 113258.8 | -0952.8 | 3428 | 8.8 | 115733.6 | -0915.7 | 3518 | 9.8 | 122735.3 | -0952.2 | 3608 | 10. | 125431.6 | -0901.7 |
| 3339 | 9.5 | 113301.3 | -0926.5 | 3429 | 9.4 | 115755.7 | -0900.0 | 3519 | 9.0 | 122751.6 | -0948.7 | 3609 | 9.8 | 125434.5 | -0918.4 |
| 3340 | 9.6 | 113301.8 | -0934.2 | 3430 | 9.5 | 115815.6 | -0903.7 | 3520 | 8.5 | 122838.1 | -0935.3 | 3610 | 9.6 | 125445.2 | -0932.8 |
| 3341 | 9.5 | 113317.9 | -0957.5 | 3431 | 10. | 115851.5 | -0906.9 | 3521 | 9.5 | 122854.7 | -0918.1 | 3611 | 9.5 | 125456.2 | -0929.1 |
| 3342 | 7.3 | 113328.2 | -0906.8 | 3432 | 9.7 | 115901.6 | -0906.3 | 3522 | 9.6 | 123005.1 | -0910.5 | 3612 | 9.5 | 125453.9 | -0924.3 |
| 3343 | 8.8 | 113331.6 | -0900.6 | 3433 | 10. | 115917.8 | -0906.1 | 3523 | 9.8 | 123016.6 | -0915.1 | 3613 | 10. | 125708.4 | -0936.0 |
| 3344 | 9.3 | 113344.7 | -0918.7 | 3434 | 8.3 | 115956.9 | -0955.8 | 3524 | 9.1 | 123017.7 | -0904.3 | 3614 | 9.8 | 125724.1 | -0931.6 |
| 3345 | 9.4 | 113458.5 | -0912.3 | 3435 | 9.5 | 120016.6 | -0930.4 | 3525 | 9.1 | 123058.5 | -0945.3 | 3615 | 9.5 | 125752.4 | -0933.0 |
| 3346 | 9.5 | 113508.2 | -0938.5 | 3436 | 9.5 | 120044.4 | -0941.2 | 3526 | 9.8 | 123103.2 | -0911.4 | 3616 | 9.3 | 125755.6 | -0919.9 |
| 3347 | 10. | 113508.8 | -0916.1 | 3437 | 9.7 | 120046.1 | -0922.2 | 3527 | 9.8 | 123127.7 | -0900.2 | 3617 | 8.9 | 125807.8 | -0943.4 |
| 3348 | 9.5 | 113541.3 | -0948.4 | 3438 | 9.5 | 120058.9 | -0947.4 | 3528 | 10. | 123160.6 | -0901.9 | 3618 | 9.8 | 125821.9 | -0916.5 |
| 3349 | 8.3 | 113624.0 | -0915.9 | 3439 | 9.0 | 120105.7 | -0911.7 | 3529 | 9.3 | 123147.7 | -0906.4 | 3619 | 9.8 | 125879.8 | -0951.0 |
| 3350 | 8.0 | 113636.1 | -0949.3 | 3440 | 9.2 | 120128.5 | -0912.5 | 3530 | 9.5 | 123202.6 | -0922.5 | 3620 | 9.7 | 125831.2 | -0900.7 |
| 3351 | 8.5 | 113639.8 | -0957.7 | 3441 | 9.6 | 120144.3 | -0946.5 | 3531 | 9.7 | 123247.6 | -0907.8 | 3621 | 9.0 | 125850.9 | -0916.6 |
| 3352 | 9.2 | 113640.0 | -0912.1 | 3442 | 9.4 | 120145.2 | -0932.0 | 3532 | 9.7 | 123244.4 | -0935.6 | 3622 | 9.1 | 125856.4 | -0940.8 |
| 3353 | 9.8 | 113701.9 | -0911.9 | 3443 | 9.8 | 120148.0 | -0914.7 | 3533 | 10. | 123249.9 | -0929.3 | 3623 | 9.3 | 125858.0 | -0950.0 |
| 3354 | 9.2 | 113719.1 | -0931.9 | 3444 | 9.6 | 120210.1 | -0956.8 | 3534 | 8.5 | 123349.4 | -0902.0 | 3624 | 10. | 125920.8 | -0901.9 |
| 3355 | 9.8 | 113752.7 | -0955.5 | 3445 | 9.2 | 120203.2 | -0955.2 | 3535 | 9.9 | 123357.5 | -0903.8 | 3625 | 9.4 | 125955.1 | -0916.0 |
| 3356 | 9.3 | 113754.4 | -0909.1 | 3446 | 9.8 | 120204.3 | -0919.6 | 3536 | 9.3 | 123412.4 | -0958.5 | 3626 | 10. | 130007.8 | -0902.6 |
| 3357 | 9.7 | 113809.9 | -0931.1 | 3447 | 9.3 | 120216.2 | -0934.9 | 3537 | 9.8 | 123427.4 | -0930.1 | 3627 | 10. | 130008.8 | -0916.3 |
| 3358 | 9.7 | 113815.6 | -0940.6 | 3448 | 9.3 | 120300.8 | -0950.8 | 3538 | 9.8 | 123500.6 | -0918.3 | 3628 | 5.8 | 130018.3 | -0957.5 |
| 3359 | 9.7 | 113857.4 | -0928.2 | 3449 | 9.5 | 120314.9 | -0917.2 | 3539 | 9.5 | 123507.6 | -0918.5 | 3629 | 9.7 | 130024.5 | -0904.1 |
| 3360 | 9.5 | 113901.0 | -0911.6 | 3450 | 9.2 | 120319.3 | -0947.2 | 3540 | 9.5 | 123519.8 | -0938.8 | 3630 | 9.8 | 130050.3 | -0947.7 |
| 3361 | 9.0 | 113929.7 | -0927.9 | 3451 | 9.0 | 120321.5 | -0934.4 | 3541 | 9.6 | 123547.6 | -0929.3 | 3631 | 10. | 130059.3 | -0950.4 |
| 3362 | 9.4 | 113944.9 | -0923.7 | 3452 | 8.8 | 120347.8 | -0954.1 | 3542 | 9.0 | 123619.1 | -0915.7 | 3632 | 9.9 | 130101.9 | -0940.8 |
| 3363 | 9.3 | 113957.3 | -0957.4 | 3453 | 9.5 | 120351.4 | -0954.7 | 3543 | 9.6 | 123622.1 | -0947.0 | 3633 | 9.7 | 130131.8 | -0928.0 |
| 3364 | 9.3 | 114009.9 | -0924.3 | 3454 | 9.4 | 120357.9 | -0917.4 | 3544 | 10. | 123644.9 | -0938.1 | 3634 | 9.9 | 130135.6 | -0950.6 |
| 3365 | 9.2 | 114100.0 | -0905.4 | 3455 | 9.5 | 120358.4 | -0914.5 | 3545 | 9.2 | 123645.8 | -0940.6 | 3635 | 10. | 130209.4 | -0913.0 |
| 3366 | 6.7 | 114101.2 | -0930.3 | 3456 | 9.0 | 120406.8 | -0956.5 | 3546 | 9.2 | 123652.8 | -0952.8 | 3636 | 6.5 | 130210.7 | -0933.0 |
| 3367 | 9.6 | 114101.4 | -0922.2 | 3457 | 7.3 | 120413.8 | -0945.6 | 3547 | 8.3 | 123656.5 | -0917.5 | 3637 | 9.5 | 130240.3 | -0945.4 |
| 3368 | 9.1 | 114107.0 | -0929.8 | 3458 | 10. | 120436.1 | -0915.7 | 3548 | 9.5 | 123709.3 | -0935.5 | 3638 | 9.4 | 130258.8 | -0909.2 |
| 3369 | 9.5 | 114109.3 | -0954.7 | 3459 | 10. | 120454.4 | -0920.4 | 3549 | 10. | 123758.4 | -0923.8 | 3639 | 9.8 | 130304.6 | -0928.9 |
| 3370 | 9.8 | 114120.4 | -0944.0 | 3460 | 9.8 | 120503.8 | -0938.6 | 3550 | 9.4 | 123827.0 | -0916.2 | 3640 | 8.0 | 130315.8 | -0919.7 |
| 3371 | 9.8 | 114134.3 | -0938.4 | 3461 | 9.6 | 120523.2 | -0922.7 | 3551 | 9.8 | 123832.2 | -0915.2 | 3641 | 8.0 | 130346.0 | -0944.2 |
| 3372 | 9.5 | 114142.2 | -0948.9 | 3462 | 10. | 120528.3 | -0955.8 | 3552 | 9.9 | 123834.0 | -0928.3 | 3642 | 9.6 | 130446.6 | -0920.4 |
| 3373 | 9.9 | 114228.5 | -0955.2 | 3463 | 9.5 | 120626.7 | -0947.3 | 3553 | 9.2 | 123858.5 | -0904.1 | 3643 | 10. | 130632.3 | -0903.9 |
| 3374 | 9.4 | 114250.4 | -0951.4 | 3464 | 9.0 | 120634.1 | -0918.9 | 3554 | 10. | 123900.1 | -0901.3 | 3644 | 10. | 130642.6 | -0901.0 |
| 3375 | 8.9 | 114251.4 | -0911.4 | 3465 | 9.8 | 120641.7 | -0946.0 | 3555 | 9.5 | 123935.3 | -0957.5 | 3645 | 9.4 | 130706.4 | -0944.0 |
| 3376 | 9.8 | 114302.5 | -0909.7 | 3466 | 9.7 | 120656.1 | -0929.6 | 3556 | 9.8 | 123948.9 | -0950.8 | 3646 | 7.5 | 130709.9 | -0935.9 |
| 3377 | 9.5 | 114311.4 | -0904.6 | 3467 | 8.7 | 120721.1 | -0935.7 | 3557 | 9.5 | 123959.1 | -0959.8 | 3647 | 9.0 | 130716.4 | -0926.1 |
| 3378 | 8.5 | 114317.9 | -0908.5 | 3468 | 6.2 | 120743.1 | -0928.2 | 3558 | 8.8 | 123959.3 | -0927.7 | 3648 | 8.5 | 130718.4 | -0939.5 |
| 3379 | 9.4 | 114335.0 | -0912.2 | 3469 | 9.9 | 120756.2 | -0956.3 | 3559 | 9.8 | 124005.4 | -0925.0 | 3649 | 9.5 | 130719.8 | -0926.4 |
| 3380 | 9.2 | 114347.4 | -0903.6 | 3470 | 8.2 | 120812.8 | -0927.9 | 3560 | 9.5 | 124028.3 | -0957.8 | 3650 | 9.1 | 130734.1 | -0917.9 |
| 3381 | 8.5 | 114357.3 | -0910.1 | 3471 | 9.1 | 120840.6 | -0931.8 | 3561 | 8.9 | 124032.5 | -0914.9 | 3651 | 9.4 | 130829.8 | -0951.6 |
| 3382 | 9.8 | 114313.7 | -0939.1 | 3472 | 8.7 | 120907.1 | -0951.0 | 3562 | 10. | 124057.6 | -0904.4 | 3652 | 8.7 | 130828.2 | -0949.5 |
| 3383 | 9.4 | 114502.2 | -0923.9 | 3473 | 8.5 | 120908.8 | -0915.0 | 3563 | 9.8 | 124152.4 | -0926.9 | 3653 | 9.5 | 130923.9 | -0935.7 |
| 3384 | 9.6 | 114507.3 | -0912.7 | 3474 | 9.0 | 121022.3 | -0916.3 | 3564 | 9.4 | 124156.8 | -0957.6 | 3654 | 7.0 | 130952.4 | -0946.9 |
| 3385 | 9.8 | 114517.3 | -0930.4 | 3475 | 9.9 | 121036.7 | -0952.7 | 3565 | 9.5 | 124236.2 | -0921.7 | 3655 | 9.8 | 130955.0 | -0918.2 |
| 3386 | 9.3 | 114544.4 | -0905.5 | 3476 | 9.8 | 121037.1 | -0900.2 | 3566 | 8.5 | 124301.6 | -0946.8 | 3656 | 9.4 | 131003.1 | -0939.5 |
| 3387 | 9.0 | 114600.2 | -0957.9 | 3477 | 9.5 | 121039.2 | -0936.4 | 3567 | 10. | 124307.0 | -0928.4 | 3657 | 9.6 | 131014.5 | -0911.0 |
| 3388 | 10. | 114631.3 | -0924.3 | 3478 | 9.3 | 121117.6 | -0949.1 | 3568 | 9.0 | 124350.0 | -0932.4 | 3658 | 10. | 131031.4 | -0938.8 |
| 3389 | 9.5 | 114641.2 | -0915.2 | 3479 | 9.8 | 121156.1 | -0943.7 | 3569 | 6.5 | 124350.4 | -0932.4 | 3659 | 10. | 131032.7 | -0932.7 |
| 3390 | 9.5 | 114735.4 | -0911.2 | 3480 | 9.0 | 121200.2 | -0923.2 | 3570 | 9.5 | 124521.0 | -0925.9 | 3660 | 9.5 | 131120.3 | -0940.4 |
| 3391 | 9.5 | 114741.7 | -0908.1 | 3481 | 9.5 | 121209.2 | -0922.1 | 3571 | 8.8 | 124524.1 | -0946.5 | 3661 | 9.2 | 131134.0 | -0915.9 |
| 3392 | 9.5 | 114743.5 | -0948.0 | 3482 | 9.7 | 121218.2 | -0907.5 | 3572 | 10. | 124526.2 | -0909.3 | 3662 | 9.0 | 131127.8 | -0942.5 |
| 3393 | 9.5 | 114829.9 | -0927.9 | 3483 | 8.5 | 121245.6 | -0959.4 | 3573 | 9.5 | 124527.7 | -0933.1 | 3663 | 9.1 | 131142.1 | -0907.4 |
| 3394 | 9.0 | 114847.2 | -0957.0 | 3484 | 9.8 | 121333.8 | -0929.5 | 3574 | 9.5 | 124530.4 | -0925.8 | 3664 | 8.7 | 131200.2 | -0901.9 |
| 3395 | 9.8 | 114901.6 | -0951.8 | 3485 | 9.1 | 121344.1 | -0956.7 | 3575 | 9.0 | 124541.1 | -0923.6 | 3665 | 8.0 | 131251.7 | -0925.7 |
| 3396 | 7.2 | 114920.6 | -0954.7 | 3486 | 10. | 121358.7 | -0913.4 | 3576 | 9.2 | 124541.2 | -0938.9 | 3666 | 10. | 131308.2 | -0949.2 |
| 3397 | 9.4 | 114927.2 | -0930.4 | 3487 | 8.9 | 121512.0 | -0935.2 | 3577 | 9.8 | 124611.2 | -0913.1 | 3667 | 10. | 131314.4 | -0917.6 |
| 3398 | 9.0 | 115005.0 | -0930.1 | 3488 | 9.5 | 121515.1 | -0950.4 | 3578 | 10. | 124614.6 | -0943.4 | 3668 | 10. | 131326.3 | -0926.5 |
| 3399 | 9.6 | 115013.1 | -0949.8 | 3489 | 9.6 | 121521.3 | -0947.8 | 3579 | 8.6 | 124632.1 | -0918.9 | 3669 | 7.3 | 131337.0 | -0914.4 |
| 3400 | 8.0 | 115023.2 | -0921.0 | 3490 | 8.0 | 121653.0 | -0940.7 | 3580 | 9.4 | 124644.0 | -0952.7 | 3670 | 9.1 | 131351.8 | -0942.0 |
| 3401 | 9.1 | 115025.5 | -0934.6 | 3491 | 9.6 | 121748.2 | -0900.5 | 3581 | 9.5 | 124649.5 | -0956.1 | 3671 | 9.5 | 131417.2 | -0955.1 |
| 3402 | 9.9 | 115027.3 | -0901.7 | 3492 | 8.3 | 121806.6 | -0914.1 | 3582 | 9.4 | 124651.7 | -0900.8 | 3672 | 10. | 131429.1 | -0949.2 |
| 3403 | 9.1 | 115047.1 | -0956.5 | 3493 | 9.5 | 121819.0 | -0942.5 | 3583 | 9.5 | 124712.5 | -0923.8 | 3673 | 9.5 | 131445.2 | -0955.4 |
| 3404 | 9.0 | 115048.2 | -0933.7 | 3494 | 9.8 | 121825.1 | -0916.4 | 3584 | 8.2 | 124718.6 | -0938.6 | 3674 | 9.8 | 131503.3 | -0935.3 |
| 3405 | 9.0 | 115059.0 | -0912.7 | 3495 | 9.5 | 121854.6 | -0917.0 | 3585 | 9.4 | 124753.6 | -0936.5 | 3675 | 9.0 | 131524.1 | -0956.4 |
| 3406 | 9.2 | 115059.2 | -0929.3 | 3496 | 9.4 | 121902.1 | -0910.0 | 3586 | 9.3 | 124819.3 | -0926.4 | 3676 | 9.1 | 131539.9 | -0935.7 |
| 3407 | 9.0 | 115100.0 | -0908.3 | 3497 | 9.3 | 121924.4 | -0933.2 | 3587 | 9.5 | 124822.7 | -0905.1 | 3677 | 10. | 131548.2 | -0940.8 |
| 3408 | 6.8 | 115144.7 | -0940.0 | 3498 | 9.3 | 121935.6 | -0912.8 | 3588 | 9.6 | 124823.3 | -0933.0 | 3678 | 10. | 131609.5 | -0922.3 |
| 3409 | 10. | 115145.9 | -0930.7 | 3499 | 9.8 | 121950.7 | -0902.8 | 3589 | 9.8 | 124852.7 | -0912.3 | 3679 | 9.6 | 131610.2 | -0942.8 |
| 3410 | 9.5 | 115211.1 | -0936.5 | 3500 | 9.3 | 121957.6 | -0909.9 | 3590 | 9.1 | 124932.6 | -0936.0 |      |     |          |         |



-09 3698 13h20m

3698 10. 132035.7 -0927.8  
3699 9.7 132043.6 -0917.4  
3700 10. 132052.6 -0953.1  
3701 8.8 132140.4 -0937.6  
3702 8.5 132157.7 -0957.5  
3703 10. 132207.3 -0900.2  
3704 9.6 132339.3 -0945.5  
3705 9.4 132404.8 -0909.8  
3706 8.2 132411.3 -0930.7  
3707 9.8 132414.0 -0904.2

3708 10. 132432.3 -0913.4  
3709 9.5 132457.3 -0916.5  
3710 8.7 132459.1 -0927.0  
3711 5.8 132519.7 -0925.0  
3712 9.0 132536.2 -0949.7  
3713 9.8 132619.6 -0923.7  
3714 9.3 132628.2 -0908.3  
3715 9.6 132642.1 -0917.6  
3716 9.2 132653.4 -0929.1  
3717 9.8 132703.7 -0958.8

3718 10. 132705.6 -0934.4  
3719 8.8 132711.8 -0951.9  
3720 10. 132738.6 -0942.7  
3721 9.0 132739.4 -0931.7  
3722 9.5 132745.7 -0911.9  
3723 9.6 132751.6 -0959.6  
3724 8.3 132803.9 -0935.2  
3725 8.0 132816.7 -0902.4  
3726 9.0 132832.1 -0956.5  
3727 10. 132842.3 -0904.7

3728 9.3 132844.3 -0935.3  
3729 8.8 132917.2 -0923.1  
3730 9.8 132922.2 -0944.0  
3731 9.4 132941.1 -0912.3  
3732 9.8 133005.2 -0950.1  
3733 9.5 133014.9 -0930.8  
3734 9.8 133052.1 -0918.1  
3735 7.5 133102.6 -0908.7  
3736 8.6 133127.3 -0939.1  
3737 7.8 133156.0 -0922.6

3738 8.6 133206.2 -0930.6  
3739 9.1 133213.1 -0957.0  
3740 10. 133228.8 -0950.9  
3741 9.9 133235.3 -0940.1  
3742 9.5 133239.2 -0927.7  
3743 9.5 133232.2 -0922.3  
3744 10. 133239.6 -0949.8  
3745 8.0 133343.7 -0943.2  
3746 10. 133348.8 -0954.4  
3747 9.8 133350.8 -0914.6

3748 9.2 133352.6 -0912.8  
3749 9.5 133447.1 -0904.7  
3750 9.1 133457.6 -0940.9  
3751 9.8 133524.2 -0934.5  
3752 10. 133529.0 -0929.4  
3753 9.4 133529.6 -0951.7  
3754 9.8 133540.5 -0922.9  
3755 10. 133602.4 -0932.2  
3756 9.6 133604.1 -0925.7  
3757 9.0 133611.0 -0907.7

3758 9.5 133647.4 -0939.9  
3759 8.5 133647.8 -0925.2  
3760 10. 133656.5 -0958.0  
3761 9.5 133709.4 -0912.0  
3762 10. 133717.4 -0904.5  
3763 10. 133723.5 -0957.8  
3764 10. 133728.6 -0906.1  
3765 10. 133732.6 -0956.3  
3766 9.9 133737.6 -0946.0  
3767 9.0 133740.1 -0947.3

3768 9.0 133742.6 -0948.2  
3769 9.5 133812.0 -0949.5  
3770 9.3 133825.6 -0937.5  
3771 9.5 133903.0 -0931.2  
3772 9.7 133927.9 -0914.5  
3773 9.8 133929.5 -0926.8  
3774 10. 133931.6 -0946.7  
3775 9.5 133943.5 -0911.8  
3776 9.8 134010.4 -0958.5  
3777 8.7 134013.0 -0927.5

3778 9.2 134027.4 -0913.5  
3779 9.3 134056.4 -0959.0  
3780 9.5 134057.3 -0957.9  
3781 9.8 134114.5 -0950.1  
3782 10. 134124.5 -0947.1  
3783 9.5 134131.2 -0911.0  
3784 9.5 134131.4 -0928.0  
3785 9.6 134133.3 -0907.7  
3786 9.8 134133.5 -0946.7  
3787 9.5 134143.2 -0913.9

3788 10. 134155.8 -0906.7  
3789 8.5 134320.9 -0947.1  
3790 9.3 134340.0 -0939.6  
3791 9.8 134353.8 -0900.2  
3792 9.3 134424.9 -0908.8  
3793 7.3 134512.3 -0957.7  
3794 9.2 134524.9 -0906.5  
3795 9.8 134537.3 -0959.0  
3796 9.6 134608.4 -0902.3  
3797 9.3 134611.5 -0938.5

3798 9.7 134613.0 -0939.4  
3799 10. 134641.4 -0947.6  
3800 9.8 134653.3 -0912.2  
3801 9.8 134707.1 -0923.7  
3802 9.0 134708.3 -0911.5  
3803 9.4 134711.1 -0906.3  
3804 7.0 134812.3 -0902.5  
3805 9.5 134820.8 -0946.0  
3806 9.6 134851.7 -0955.7  
3807 7.8 134857.2 -0919.3

3808 9.6 134907.7 -0959.5  
3809 9.2 134911.9 -0959.5  
3810 9.9 134912.6 -0934.9  
3811 9.3 134918.2 -0932.8  
3812 9.9 134933.1 -0909.6  
3813 9.3 134948.4 -0948.3  
3814 10. 134954.5 -0925.7  
3815 9.9 134956.3 -0902.8  
3816 9.6 135020.0 -0914.0  
3817 9.1 135022.2 -0923.0

3818 9.8 135029.8 -0901.2  
3819 9.1 135033.9 -0943.4  
3820 10. 135034.4 -0902.8  
3821 9.2 135051.8 -0954.9  
3822 9.8 135058.7 -0911.5  
3823 10. 135111.3 -0945.4  
3824 9.8 135131.6 -0942.8  
3825 9.8 135132.2 -0957.0  
3826 9.8 135144.9 -0939.2  
3827 9.1 135204.3 -0942.7

3828 8.7 135257.2 -0949.0  
3829 9.8 135258.4 -0934.2  
3830 8.5 135331.6 -0940.2  
3831 9.8 135332.7 -0909.0  
3832 8.7 135357.6 -0914.2  
3833 9.5 135359.7 -0907.5  
3834 9.9 135411.3 -0945.3  
3835 9.5 135449.2 -0932.3  
3836 9.0 135449.5 -0945.0  
3837 9.8 135513.7 -0906.2

3838 8.8 135514.8 -0945.5  
3839 10. 135544.4 -0929.8  
3840 9.6 135610.3 -0936.4  
3841 7.3 135616.7 -0902.9  
3842 10. 135638.8 -0948.4  
3843 9.0 135644.6 -0905.3  
3844 9.1 135723.1 -0905.1  
3845 9.5 135725.4 -0933.1  
3846 9.2 135733.1 -0914.3  
3847 9.1 135801.4 -0928.5

3848 9.4 135825.1 -0952.4  
3849 10. 135846.9 -0911.4  
3850 9.7 135852.6 -0936.1  
3851 8.9 135852.6 -0924.4  
3852 9.5 135914.1 -0953.6  
3853 9.1 135914.8 -0906.2  
3854 8.2 135946.7 -0937.7  
3855 10. 140003.7 -0948.0  
3856 9.0 140028.7 -0543.3  
3857 10. 140032.0 -0953.8

3858 9.5 140034.1 -0957.4  
3859 9.5 140041.6 -0958.8  
3860 9.8 140048.7 -0909.1  
3861 9.4 140102.6 -0910.3  
3862 9.0 140105.1 -0907.2  
3863 9.0 140109.0 -0908.9  
3864 9.5 140115.5 -0949.1  
3865 6.5 140117.2 -0938.4  
3866 9.4 140215.8 -0930.8  
3867 9.0 140226.0 -0917.6

3868 9.9 140255.5 -0906.3  
3869 9.0 140326.1 -0945.7  
3870 8.5 140335.6 -0947.1  
3871 10. 140338.2 -0905.6  
3872 9.7 140341.2 -0932.8  
3873 8.7 140347.2 -0955.1  
3874 8.6 140412.9 -0916.5  
3875 9.6 140422.7 -0931.7  
3876 9.4 140437.0 -0905.2  
3877 7.2 140450.5 -0912.6

3878 4.0 140510.3 -0936.0  
3879 9.9 140511.2 -0929.9  
3880 10. 140518.5 -0907.5  
3881 9.0 140535.8 -0901.7  
3882 9.4 140611.6 -0951.7  
3883 10. 140625.2 -0919.1  
3884 9.6 140626.2 -0935.4  
3885 10. 140630.7 -0951.1  
3886 10. 140652.0 -0906.6  
3887 9.9 140656.5 -0903.0

3888 9.5 140659.9 -0943.8  
3889 9.5 140705.2 -0948.2  
3890 9.5 140708.0 -0922.8  
3891 9.9 140708.8 -0953.1  
3892 9.7 140730.9 -0918.8  
3893 9.1 140808.4 -0922.9  
3894 9.5 140815.2 -0907.1  
3895 9.6 140818.5 -0935.0  
3896 9.0 140827.2 -0908.1  
3897 9.5 140908.5 -0921.1

3898 9.1 140932.4 -0907.5  
3899 9.5 140944.8 -0903.9  
3900 10. 140952.4 -0928.6  
3901 10. 141003.7 -0903.1  
3902 9.4 141015.3 -0902.4  
3903 9.1 141024.9 -0913.3  
3904 9.7 141026.3 -0926.6  
3905 9.3 141028.4 -0906.0  
3906 9.4 141035.2 -0921.7  
3907 10. 141038.6 -0917.0

3908 9.5 141049.4 -0953.1  
3909 8.5 141122.4 -0956.3  
3910 9.2 141134.4 -0935.1  
3911 9.5 141147.4 -0935.4  
3912 10. 141221.0 -0959.9  
3913 10. 141318.4 -0952.0  
3914 10. 141327.0 -0950.4  
3915 7.0 141347.9 -0942.0  
3916 9.1 141355.8 -0908.6  
3917 9.9 141358.7 -0957.5

3918 9.0 141418.8 -0907.3  
3919 9.0 141435.3 -0914.0  
3920 9.7 141446.8 -0901.4  
3921 8.6 141523.4 -0946.7  
3922 9.4 141537.7 -0916.2  
3923 10. 141554.6 -0953.0  
3924 9.6 141554.8 -0900.8  
3925 8.8 141619.9 -0945.4  
3926 9.8 141630.2 -0923.1  
3927 9.3 141644.5 -0920.9

3928 10. 141726.0 -0954.7  
3929 9.4 141726.8 -0932.3  
3930 10. 141737.5 -0911.8  
3931 9.3 141756.7 -0918.8  
3932 9.0 141758.6 -0906.8  
3933 9.4 141809.3 -0949.2  
3934 10. 141816.2 -0918.6  
3935 9.6 141819.6 -0930.4  
3936 9.4 141826.8 -0910.4  
3937 10. 141851.1 -0913.6

3938 10. 141853.1 -0949.8  
3939 9.2 141907.2 -0954.6  
3940 9.4 141909.0 -0950.0  
3941 9.4 141920.5 -0928.4  
3942 10. 141943.3 -0951.1  
3943 8.7 141944.8 -0933.0  
3944 10. 142008.2 -0928.8  
3945 6.5 142047.4 -0921.1  
3946 9.0 142053.4 -0933.0  
3947 8.8 142055.0 -0933.4

3948 9.9 142123.2 -0956.9  
3949 8.0 142145.2 -0954.9  
3950 9.0 142145.8 -0930.0  
3951 9.8 142200.2 -0944.9  
3952 9.3 142200.2 -0956.3  
3953 9.9 142233.0 -0940.2  
3954 9.8 142233.5 -0913.6  
3955 9.7 142244.2 -0913.7  
3956 9.8 142258.8 -0912.1  
3957 9.5 142259.4 -0959.4

3958 9.7 142308.2 -0949.4  
3959 9.4 142308.6 -0919.7  
3960 9.0 142325.3 -0939.2  
3961 9.5 142425.4 -0910.2  
3962 8.2 142450.0 -0906.9  
3963 9.7 142525.7 -0955.0  
3964 9.5 142550.9 -0916.8  
3965 9.6 142642.4 -0907.9  
3966 9.7 142659.8 -0939.8  
3967 9.7 142702.5 -0917.2

-09 4057 14h55m

3968 9.8 142742.4 -0914.6  
3969 9.5 142828.9 -0921.3  
3970 9.2 142939.8 -0921.7  
3971 9.5 143013.5 -0922.9  
3972 7.8 143018.4 -0906.4  
3973 9.9 143025.3 -0919.4  
3974 9.7 143107.9 -0954.4  
3975 7.0 143112.5 -0955.6  
3976 9.3 143145.5 -0942.4  
3977 8.5 143200.2 -0919.4

3978 9.6 143205.1 -0959.4  
3979 8.1 143355.3 -0911.0  
3980 9.1 143358.0 -0941.5  
3981 9.6 143433.3 -0923.7  
3982 4.7 143442.1 -0930.9  
3983 8.4 143532.0 -0957.8  
3984 8.3 143539.3 -0904.7  
3985 9.4 143557.9 -0939.8  
3986 7.0 143658.7 -0904.9  
3987 10. 143716.8 -0953.0

3988 8.8 143836.9 -0953.2  
3989 9.3 143843.6 -0918.1  
3990 9.1 143911.7 -0921.8  
3991 9.1 143920.5 -0909.1  
3992 9.5 143920.7 -0906.0  
3993 9.4 143924.6 -0919.0  
3994 9.8 143951.9 -0951.6  
3995 9.3 143955.4 -0959.0  
3996 9.0 144009.3 -0953.5  
3997 9.5 144059.4 -0942.8

3998 9.6 144101.3 -0946.6  
3999 9.3 144107.1 -0922.0  
4000 9.1 144114.9 -0922.4  
4001 9.6 144123.6 -0931.3  
4002 9.5 144135.8 -0948.8  
4003 9.7 144147.2 -0936.6  
4004 9.6 144204.9 -0950.4  
4005 9.1 144240.8 -0943.3  
4006 9.4 144247.4 -0948.9  
4007 10. 144249.8 -0946.6

4008 9.1 144254.8 -0948.7  
4009 9.0 144255.6 -0948.0  
4010 9.2 144323.4 -0948.7  
4011 9.0 144327.9 -0923.8  
4012 9.4 144328.6 -0918.8  
4013 9.7 144338.8 -0909.8  
4014 8.5 144339.3 -0956.7  
4015 10. 144402.7 -0928.4  
4016 8.9 144405.9 -0918.9  
4017 8.5 144431.8 -0921.6

4018 9.5 144448.4 -0914.2  
4019 10. 144507.8 -0930.7  
4020 9.1 144540.6 -0909.2  
4021 9.5 144558.5 -0907.7  
4022 9.3 144609.0 -0904.2  
4023 9.6 144619.8 -0917.8  
4024 9.6 144652.2 -0944.8  
4025 9.2 144700.3 -0959.5  
4026 9.4 144701.1 -0910.9  
4027 9.4 144731.0 -0905.2

4028 9.3 144738.7 -0939.2  
4029 8.2 144742.8 -0941.2  
4030 9.8 144749.4 -0956.1  
4031 9.8 144758.9 -0908.0  
4032 9.5 144808.0 -0929.4  
4033 8.6 144857.3 -0918.0  
4034 9.3 144904.0 -0930.8  
4035 9.6 144913.7 -0940.0  
4036 9.8 144929.8 -0906.3  
4037 9.3 144932.7 -0942.4

4038 9.6 144935.8 -0915.0  
4039 10. 144959.9 -0945.2  
4040 8.9 145026.3 -0951.2  
4041 10. 145057.6 -0924.5  
4042 9.5 145108.4 -0908.0  
4043 8.8 145125.7 -0922.2  
4044 9.5 145131.7 -0944.8  
4045 9.1 145133.5 -0959.1  
4046 9.7 145139.8 -0959.5  
4047 9.9 145142.2 -0920.4

4048 9.4 145145.2 -0940.1  
4049 8.8 145148.3 -0916.5  
4050 10. 145224.7 -0959.1  
4051 9.3 145232.1 -0955.8  
4052 9.8 145318.2 -0952.0  
4053 9.4 145318.9 -0932.3  
4054 9.4 145320.6 -0959.2  
4055 9.6 145417.9 -0958.3  
4056 9.4 145436.8 -0903.2  
4057 9.7 145500.0 -0943.4



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 4058 | 7.8 | 145500.9 | -0949.1 | 4148 | 9.8 | 152017.9 | -0940.4 | 4238 | 9.6 | 154114.1 | -0947.6 | 4328 | 9.8 | 160509.6 | -0942.0 |
| 4059 | 10. | 145522.0 | -0938.4 | 4149 | 10. | 152036.3 | -0937.1 | 4239 | 9.8 | 154115.0 | -0943.7 | 4329 | 9.2 | 160516.8 | -0957.6 |
| 4060 | 9.3 | 145534.8 | -0931.8 | 4150 | 9.7 | 152105.0 | -0906.2 | 4240 | 9.5 | 154121.0 | -0944.5 | 4330 | 9.5 | 160600.1 | -0915.8 |
| 4061 | 9.4 | 145538.0 | -0946.3 | 4151 | 9.8 | 152142.8 | -0941.5 | 4241 | 10. | 154147.8 | -0917.1 | 4331 | 9.0 | 160617.6 | -0952.6 |
| 4062 | 8.9 | 145550.0 | -0915.6 | 4152 | 9.4 | 152200.3 | -0903.5 | 4242 | 9.3 | 154204.6 | -0921.1 | 4332 | 9.3 | 160624.2 | -0941.2 |
| 4063 | 9.3 | 145554.7 | -0952.0 | 4153 | 9.0 | 152206.0 | -0932.1 | 4243 | 9.0 | 154220.6 | -0939.7 | 4333 | 8.9 | 160652.0 | -0922.1 |
| 4064 | 9.3 | 145613.7 | -0929.5 | 4154 | 9.8 | 152221.1 | -0918.9 | 4244 | 9.4 | 154238.0 | -0925.0 | 4334 | 9.9 | 160700.6 | -0949.4 |
| 4065 | 8.8 | 145641.6 | -0937.0 | 4155 | 9.1 | 152229.8 | -0903.0 | 4245 | 9.9 | 154255.7 | -0901.5 | 4335 | 9.4 | 160703.1 | -0954.6 |
| 4066 | 9.7 | 145652.9 | -0919.0 | 4156 | 9.3 | 152231.9 | -0944.8 | 4246 | 9.1 | 154316.2 | -0928.1 | 4336 | 10. | 160721.3 | -0901.6 |
| 4067 | 9.4 | 145655.7 | -0956.2 | 4157 | 9.1 | 152234.4 | -0949.7 | 4247 | 9.2 | 154354.1 | -0943.1 | 4337 | 9.3 | 160734.9 | -0930.8 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4068 | 8.8 | 145707.4 | -0919.6 | 4158 | 9.3 | 152242.0 | -0932.8 | 4248 | 9.2 | 154403.9 | -0927.1 | 4338 | 9.6 | 160824.7 | -0923.5 |
| 4069 | 8.8 | 145827.2 | -0901.4 | 4159 | 9.0 | 152257.4 | -0948.6 | 4249 | 8.6 | 154405.5 | -0901.5 | 4339 | 8.0 | 160840.3 | -0949.4 |
| 4070 | 9.5 | 145847.0 | -0917.0 | 4160 | 9.6 | 152309.4 | -0933.5 | 4250 | 9.0 | 154410.1 | -0943.6 | 4340 | 9.8 | 160846.3 | -0925.1 |
| 4071 | 9.2 | 145940.0 | -0904.5 | 4161 | 10. | 152410.8 | -0942.7 | 4251 | 9.4 | 154419.7 | -0909.2 | 4341 | 9.2 | 160849.6 | -0941.3 |
| 4072 | 10. | 145942.2 | -0931.1 | 4162 | 9.0 | 152419.8 | -0951.1 | 4252 | 9.1 | 154432.5 | -0956.9 | 4342 | 9.6 | 160912.6 | -0907.2 |
| 4073 | 9.3 | 145945.1 | -0946.9 | 4163 | 7.0 | 152444.9 | -0956.5 | 4253 | 9.4 | 154459.5 | -0923.1 | 4343 | 9.3 | 160918.2 | -0924.4 |
| 4074 | 9.2 | 145957.4 | -0916.8 | 4164 | 8.0 | 152426.7 | -0915.1 | 4254 | 8.8 | 154514.0 | -0921.5 | 4344 | 9.8 | 160923.7 | -0936.6 |
| 4075 | 9.2 | 150030.1 | -0915.7 | 4165 | 9.1 | 152428.0 | -0935.5 | 4255 | 10. | 154602.8 | -0907.7 | 4345 | 8.5 | 160946.1 | -0945.8 |
| 4076 | 9.4 | 150041.9 | -0910.1 | 4166 | 10. | 152434.8 | -0943.5 | 4256 | 9.6 | 154619.2 | -0937.5 | 4346 | 9.8 | 161001.5 | -0954.5 |
| 4077 | 9.2 | 150049.3 | -0919.7 | 4167 | 8.5 | 152516.3 | -0936.8 | 4257 | 9.5 | 154741.5 | -0909.3 | 4347 | 9.0 | 161001.6 | -0907.9 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4078 | 9.6 | 150112.8 | -0934.0 | 4168 | 9.1 | 152537.7 | -0926.4 | 4258 | 9.8 | 154807.0 | -0952.1 | 4348 | 9.6 | 161042.0 | -0916.5 |
| 4079 | 10. | 150205.9 | -0950.6 | 4169 | 9.5 | 152541.9 | -0925.6 | 4259 | 9.5 | 154807.2 | -0903.1 | 4349 | 9.9 | 161043.7 | -0905.6 |
| 4080 | 9.2 | 150233.5 | -0919.7 | 4170 | 9.8 | 152610.2 | -0958.3 | 4260 | 8.5 | 154819.5 | -0917.7 | 4350 | 9.1 | 161101.8 | -0929.1 |
| 4081 | 8.9 | 150328.9 | -0932.8 | 4171 | 4.7 | 152614.9 | -0933.7 | 4261 | 9.7 | 154846.5 | -0912.0 | 4351 | 9.3 | 161119.0 | -0951.4 |
| 4082 | 8.8 | 150349.9 | -0957.3 | 4172 | 9.8 | 152647.7 | -0904.1 | 4262 | 9.0 | 154848.0 | -0938.4 | 4352 | 9.3 | 161124.6 | -0946.2 |
| 4083 | 9.2 | 150356.8 | -0918.1 | 4173 | 8.7 | 152708.0 | -0918.5 | 4263 | 9.4 | 154852.5 | -0932.4 | 4353 | 8.3 | 161135.0 | -0916.1 |
| 4084 | 9.1 | 150401.6 | -0948.2 | 4174 | 9.4 | 152726.3 | -0952.5 | 4264 | 9.2 | 154916.4 | -0938.0 | 4354 | 9.1 | 161144.7 | -0901.8 |
| 4085 | 9.2 | 150403.8 | -0920.1 | 4175 | 10. | 152752.1 | -0907.8 | 4265 | 9.0 | 154935.0 | -0907.6 | 4355 | 8.0 | 161205.2 | -0929.9 |
| 4086 | 9.7 | 150429.9 | -0910.2 | 4176 | 10. | 152755.2 | -0904.7 | 4266 | 9.2 | 154939.3 | -0911.0 | 4356 | 9.4 | 161218.4 | -0906.6 |
| 4087 | 9.8 | 150443.1 | -0956.5 | 4177 | 9.7 | 152804.7 | -0904.5 | 4267 | 9.8 | 155002.5 | -0950.7 | 4357 | 9.8 | 161220.2 | -0932.4 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4088 | 10. | 150448.0 | -0904.1 | 4178 | 9.5 | 152814.3 | -0934.9 | 4268 | 10. | 155010.2 | -0925.0 | 4358 | 9.6 | 161207.6 | -0938.3 |
| 4089 | 9.8 | 150509.3 | -0919.2 | 4179 | 9.9 | 152908.3 | -0935.4 | 4269 | 9.2 | 155044.9 | -0922.0 | 4359 | 9.7 | 161214.1 | -0940.7 |
| 4090 | 6.3 | 150514.8 | -0916.7 | 4180 | 9.0 | 152907.3 | -0958.0 | 4270 | 9.3 | 155050.3 | -0933.8 | 4360 | 9.8 | 161315.7 | -0933.6 |
| 4091 | 9.5 | 150520.4 | -0911.6 | 4181 | 10. | 152913.8 | -0952.3 | 4271 | 9.8 | 155102.6 | -0933.9 | 4361 | 9.6 | 161337.0 | -0917.7 |
| 4092 | 9.1 | 150522.6 | -0947.0 | 4182 | 9.1 | 152947.7 | -0946.5 | 4272 | 9.1 | 155102.7 | -0942.4 | 4362 | 8.8 | 161346.8 | -0945.6 |
| 4093 | 9.9 | 150524.6 | -0948.3 | 4183 | 10. | 152951.1 | -0910.4 | 4273 | 9.8 | 155122.6 | -0925.0 | 4363 | 9.1 | 161347.3 | -0925.1 |
| 4094 | 9.5 | 150531.3 | -0939.0 | 4184 | 9.6 | 152951.2 | -0957.2 | 4274 | 9.3 | 155128.3 | -0916.2 | 4364 | 8.5 | 161348.5 | -0950.3 |
| 4095 | 9.5 | 150531.9 | -0936.1 | 4185 | 9.0 | 153075.1 | -0905.6 | 4275 | 9.6 | 155128.7 | -0935.5 | 4365 | 9.0 | 161404.4 | -0955.9 |
| 4096 | 9.4 | 150556.5 | -0903.3 | 4186 | 9.8 | 153081.6 | -0906.7 | 4276 | 9.5 | 155147.0 | -0950.0 | 4366 | 9.6 | 161409.7 | -0932.3 |
| 4097 | 9.4 | 150717.5 | -0931.2 | 4187 | 9.1 | 153046.9 | -0919.1 | 4277 | 9.2 | 155147.1 | -0915.4 | 4367 | 8.5 | 161435.1 | -0907.6 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4098 | 9.4 | 150719.1 | -0955.2 | 4188 | 9.5 | 153115.3 | -0939.9 | 4278 | 9.1 | 155152.8 | -0932.5 | 4368 | 9.9 | 161438.1 | -0921.6 |
| 4099 | 9.4 | 150740.2 | -0916.6 | 4189 | 9.1 | 153123.7 | -0956.4 | 4279 | 9.9 | 155201.5 | -0916.9 | 4369 | 10. | 161500.2 | -0900.1 |
| 4100 | 9.5 | 150741.3 | -0922.0 | 4190 | 9.5 | 153126.0 | -0911.5 | 4280 | 10. | 155235.4 | -0945.0 | 4370 | 10. | 161505.6 | -0909.5 |
| 4101 | 9.8 | 150748.3 | -0917.2 | 4191 | 9.4 | 153128.7 | -0947.9 | 4281 | 9.5 | 155250.7 | -0915.4 | 4371 | 9.4 | 161510.5 | -0914.8 |
| 4102 | 9.1 | 150754.7 | -0923.8 | 4192 | 8.5 | 153141.6 | -0906.4 | 4282 | 9.4 | 155329.1 | -0922.1 | 4372 | 9.5 | 161530.5 | -0916.1 |
| 4103 | 9.8 | 150827.0 | -0944.4 | 4193 | 9.5 | 153151.7 | -0949.3 | 4283 | 9.3 | 155344.4 | -0930.4 | 4373 | 9.4 | 161531.8 | -0920.3 |
| 4104 | 8.6 | 150840.1 | -0942.4 | 4194 | 8.5 | 153152.8 | -0908.3 | 4284 | 10. | 155346.6 | -0940.2 | 4374 | 9.6 | 161555.6 | -0908.0 |
| 4105 | 8.7 | 150843.0 | -0952.9 | 4195 | 9.5 | 153155.2 | -0946.1 | 4285 | 9.3 | 155403.6 | -0942.1 | 4375 | 9.5 | 161600.2 | -0938.6 |
| 4106 | 9.3 | 150849.0 | -0941.2 | 4196 | 9.8 | 153200.3 | -0932.5 | 4286 | 9.8 | 155505.9 | -0938.5 | 4376 | 9.6 | 161601.4 | -0940.6 |
| 4107 | 9.2 | 150855.1 | -0924.6 | 4197 | 9.4 | 153201.7 | -0951.5 | 4287 | 9.5 | 155506.2 | -0900.8 | 4377 | 8.2 | 161603.7 | -0900.7 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4108 | 9.0 | 150855.3 | -0958.0 | 4198 | 9.8 | 153218.1 | -0901.0 | 4288 | 9.8 | 155516.4 | -0948.5 | 4378 | 9.6 | 161614.5 | -0913.4 |
| 4109 | 9.0 | 150902.5 | -0903.9 | 4199 | 10. | 153250.1 | -0942.4 | 4289 | 9.5 | 155524.3 | -0931.1 | 4379 | 8.7 | 161641.5 | -0929.3 |
| 4110 | 9.5 | 150916.3 | -0944.0 | 4200 | 9.4 | 153312.6 | -0902.3 | 4290 | 9.8 | 155554.8 | -0944.1 | 4380 | 9.2 | 161717.7 | -0936.4 |
| 4111 | 9.8 | 150936.2 | -0918.3 | 4201 | 9.4 | 153319.8 | -0924.9 | 4291 | 7.0 | 155615.5 | -0930.8 | 4381 | 8.2 | 161719.2 | -0931.4 |
| 4112 | 7.7 | 150941.2 | -0957.9 | 4202 | 9.5 | 153342.2 | -0938.6 | 4292 | 9.3 | 155615.9 | -0932.6 | 4382 | 9.8 | 161728.1 | -0941.3 |
| 4113 | 9.5 | 151004.5 | -0926.9 | 4203 | 9.3 | 153339.2 | -0940.0 | 4293 | 9.7 | 155632.1 | -0938.1 | 4383 | 9.9 | 161728.2 | -0900.3 |
| 4114 | 9.5 | 151021.5 | -0936.0 | 4204 | 9.3 | 153340.1 | -0943.3 | 4294 | 9.5 | 155645.7 | -0954.6 | 4384 | 9.9 | 161732.5 | -0912.4 |
| 4115 | 9.6 | 151034.0 | -0903.8 | 4205 | 10. | 153403.7 | -0948.0 | 4295 | 10. | 155722.6 | -0948.9 | 4385 | 8.0 | 161742.1 | -0944.8 |
| 4116 | 8.5 | 151042.3 | -0915.0 | 4206 | 9.5 | 153415.4 | -0954.9 | 4296 | 9.1 | 155735.1 | -0946.1 | 4386 | 10. | 161758.7 | -0939.6 |
| 4117 | 10. | 151047.8 | -0929.7 | 4207 | 10. | 153419.6 | -0952.2 | 4297 | 9.1 | 155803.5 | -0946.2 | 4387 | 8.2 | 161823.9 | -0923.3 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4118 | 8.7 | 151049.5 | -0943.1 | 4208 | 9.8 | 153427.5 | -0906.6 | 4298 | 8.5 | 155816.8 | -0942.5 | 4388 | 9.5 | 161829.9 | -0947.3 |
| 4119 | 9.4 | 151053.5 | -0941.8 | 4209 | 9.5 | 153433.3 | -0917.2 | 4299 | 9.5 | 155818.0 | -0910.2 | 4389 | 8.6 | 161843.6 | -0924.0 |
| 4120 | 9.4 | 151110.0 | -0904.5 | 4210 | 9.2 | 153451.1 | -0951.4 | 4300 | 8.3 | 155841.1 | -0936.7 | 4390 | 9.5 | 161907.7 | -0941.3 |
| 4121 | 9.4 | 151134.0 | -0931.1 | 4211 | 9.0 | 153515.9 | -0922.7 | 4301 | 9.0 | 155853.7 | -0906.9 | 4391 | 9.4 | 161919.4 | -0947.7 |
| 4122 | 9.7 | 151148.2 | -0922.9 | 4212 | 9.5 | 153527.0 | -0907.3 | 4302 | 9.0 | 155918.0 | -0955.9 | 4392 | 8.2 | 161935.1 | -0948.3 |
| 4123 | 9.4 | 151153.7 | -0924.3 | 4213 | 7.8 | 153540.7 | -0939.5 | 4303 | 9.5 | 155918.4 | -0913.9 | 4393 | 9.5 | 161936.5 | -0928.9 |
| 4124 | 9.4 | 151215.6 | -0914.1 | 4214 | 9.2 | 153544.3 |         |      |     |          |         |      |     |          |         |



-09 4418 16h28m

4418 9.3 162829.5 -0944.8  
4419 9.8 162833.9 -0917.4  
4420 9.7 162915.4 -0910.9  
4421 9.7 162916.5 -0907.0  
4422 9.5 162941.8 -0955.1  
4423 9.3 162942.1 -0930.7  
4424 9.0 163020.0 -0954.2  
4425 9.5 163029.4 -0915.0  
4426 9.8 163101.2 -0925.4  
4427 7.3 163101.9 -0958.4

4428 9.8 163111.5 -0952.2  
4429 9.8 163115.6 -0938.1  
4430 7.0 163142.8 -0915.3  
4431 9.1 163222.4 -0909.4  
4432 9.5 163236.1 -0938.2  
4433 9.6 163254.1 -0902.8  
4434 9.7 163309.4 -0942.8  
4435 10. 163330.5 -0956.6  
4436 9.5 163447.0 -0903.2  
4437 10. 163503.3 -0934.4

4438 9.7 163503.4 -0939.2  
4439 9.1 163521.0 -0936.4  
4440 9.1 163620.1 -0930.1  
4441 9.5 163620.4 -0905.0  
4442 9.3 163627.8 -0926.4  
4443 9.3 163643.9 -0901.5  
4444 9.0 163709.4 -0916.5  
4445 9.5 163718.7 -0946.6  
4446 9.1 163819.8 -0925.8  
4447 9.5 163846.4 -0943.3

4448 9.4 163848.1 -0908.1  
4449 9.8 163856.5 -0956.2  
4450 9.5 163925.0 -0932.3  
4451 8.8 164009.4 -0925.0  
4452 9.6 164023.0 -0907.9  
4453 9.5 164038.2 -0927.7  
4454 8.0 164100.9 -0939.7  
4455 9.3 164154.1 -0951.4  
4456 9.5 164207.8 -0927.1  
4457 9.5 164254.4 -0903.7

4458 9.5 164300.9 -0952.0  
4459 9.8 164325.6 -0925.6  
4460 9.1 164327.5 -0942.1  
4461 9.6 164347.5 -0919.8  
4462 10. 164354.6 -0950.5  
4463 9.5 164400.3 -0920.0  
4464 9.8 164429.9 -0902.1  
4465 9.8 164457.9 -0904.2  
4466 9.8 164619.1 -0946.0  
4467 9.0 164711.6 -0909.8

4468 9.8 164718.6 -0914.9  
4469 9.5 164751.0 -0958.0  
4470 9.5 164846.2 -0902.0  
4471 9.4 165007.8 -0911.6  
4472 8.3 165036.3 -0929.9  
4473 9.8 165222.9 -0958.7  
4474 9.5 165223.0 -0915.2  
4475 9.3 165257.1 -0936.6  
4476 9.0 165309.6 -0900.8  
4477 9.5 165323.0 -0918.9

4478 8.6 165329.7 -0931.6  
4479 8.8 165348.1 -0933.1  
4480 10. 165354.0 -0917.1  
4481 8.8 165435.6 -0904.1  
4482 8.5 165521.1 -0903.6  
4483 10. 165533.5 -0907.6  
4484 9.6 165553.5 -0920.7  
4485 9.8 165559.2 -0945.6  
4486 9.5 165617.0 -0909.6  
4487 9.8 165640.0 -0941.9

4488 9.3 165648.0 -0955.3  
4489 9.5 165658.5 -0917.5  
4490 8.9 165722.8 -0925.8  
4491 9.4 165732.1 -0941.5  
4492 9.0 165733.3 -0904.4  
4493 9.2 165736.1 -0925.6  
4494 9.7 165805.0 -0933.8  
4495 9.1 165806.1 -0901.3  
4496 9.6 165807.4 -0903.9  
4497 10. 165808.7 -0900.2

4498 10. 165814.4 -0926.6  
4499 9.3 165820.0 -0929.4  
4500 9.4 165844.8 -0942.5  
4501 8.7 165848.8 -0934.1  
4502 8.1 165906.6 -0935.7  
4503 9.1 170002.0 -0944.9  
4504 9.8 170029.5 -0914.2  
4505 9.8 170131.3 -0922.0  
4506 9.7 170133.4 -0932.5  
4507 9.4 170148.3 -0943.5

4508 9.5 170238.9 -0928.8  
4509 9.5 170256.5 -0948.7  
4510 9.0 170316.4 -0955.4  
4511 9.4 170318.7 -0924.0  
4512 8.2 170332.5 -0944.8  
4513 9.5 170335.4 -0902.9  
4514 9.4 170344.7 -0926.0  
4515 9.4 170348.8 -0924.5  
4516 9.5 170519.6 -0907.2  
4517 9.4 170520.3 -0929.5

4518 8.6 170522.5 -0929.8  
4519 7.3 170541.2 -0906.4  
4520 9.5 170603.7 -0905.2  
4521 9.5 170651.7 -0902.8  
4522 9.2 170659.1 -0908.9  
4523 9.2 170711.9 -0942.7  
4524 9.1 170735.0 -0910.9  
4525 7.0 170743.1 -0938.4  
4526 9.8 170821.5 -0940.6  
4527 9.0 170843.6 -0919.6

4528 9.1 170846.2 -0909.1  
4529 9.9 170847.5 -0919.6  
4530 8.5 170908.7 -0901.7  
4531 9.1 170909.5 -0937.4  
4532 9.3 170934.7 -0905.8  
4533 9.6 171019.3 -0936.1  
4534 10. 171021.2 -0909.0  
4535 9.3 171047.1 -0916.7  
4536 9.5 171143.0 -0944.8  
4537 9.6 171310.6 -0953.3

4538 9.2 171329.8 -0957.8  
4539 8.9 171401.5 -0950.9  
4540 8.8 171418.3 -0934.4  
4541 9.2 171422.1 -0917.0  
4542 9.4 171433.5 -0948.4  
4543 9.5 171508.0 -0928.0  
4544 9.4 171539.7 -0903.7  
4545 9.4 171557.3 -0904.4  
4546 7.0 171611.6 -0913.1  
4547 9.5 171641.4 -0930.6

4548 9.2 171703.1 -0923.0  
4549 7.8 171705.7 -0904.2  
4550 9.1 171747.4 -0922.4  
4551 9.5 171831.1 -0906.8  
4552 9.6 171841.5 -0926.4  
4553 9.3 171912.4 -0949.1  
4554 9.1 171911.0 -0924.2  
4555 9.1 172011.2 -0923.9  
4556 8.0 172031.5 -0922.3  
4557 9.5 172111.0 -0935.0

4558 7.5 172117.1 -0951.9  
4559 9.7 172130.1 -0943.8  
4560 9.0 172141.8 -0927.7  
4561 9.3 172152.6 -0959.6  
4562 8.2 172229.7 -0958.7  
4563 9.4 172239.5 -0904.6  
4564 8.9 172345.4 -0952.2  
4565 9.2 172406.0 -0905.6  
4566 9.3 172437.8 -0918.2  
4567 9.2 172510.5 -0930.7

4568 9.5 172550.6 -0904.0  
4569 9.5 172552.4 -0932.0  
4570 9.8 172559.5 -0955.6  
4571 9.5 172605.5 -0922.8  
4572 9.6 172624.5 -0916.2  
4573 9.8 172650.5 -0900.2  
4574 10. 172710.0 -0969.9  
4575 9.5 172744.4 -0923.1  
4576 9.4 172758.0 -0913.4  
4577 9.3 172815.6 -0951.5

4578 8.9 172823.0 -0941.9  
4579 8.8 172844.2 -0907.8  
4580 8.5 172844.2 -0944.3  
4581 8.9 172913.5 -0925.3  
4582 9.8 172926.5 -0924.5  
4583 9.3 172940.1 -0931.4  
4584 9.8 173046.2 -0910.3  
4585 9.1 173106.6 -0915.7  
4586 9.7 173111.0 -0950.1  
4587 9.2 173122.7 -0916.6

4588 9.8 173203.6 -0927.5  
4589 9.5 173214.5 -0959.6  
4590 9.3 173308.3 -0909.1  
4591 8.8 173352.9 -0939.6  
4592 9.0 173429.2 -0900.2  
4593 9.5 173440.4 -0939.1  
4594 9.0 173544.8 -0914.7  
4595 8.8 173609.0 -0944.6  
4596 10. 173629.1 -0942.2  
4597 10. 173708.1 -0937.6

4598 7.8 173709.0 -0944.6  
4599 9.5 173811.1 -0939.0  
4600 9.5 173856.5 -0957.8  
4601 9.0 173857.7 -0903.1  
4602 9.4 173907.2 -0930.4  
4603 9.1 173923.1 -0942.2  
4604 9.0 173949.5 -0932.6  
4605 9.1 174037.1 -0934.7  
4606 9.0 174042.6 -0934.8  
4607 9.4 174054.6 -0928.6

4608 9.4 174059.8 -0904.8  
4609 10. 174144.1 -0934.7  
4610 9.8 174153.7 -0934.4  
4611 9.8 174154.0 -0901.0  
4612 9.7 174156.3 -0912.4  
4613 9.8 174242.2 -0917.3  
4614 9.3 174308.4 -0953.6  
4615 9.4 174320.1 -0901.0  
4616 8.4 174401.0 -0956.1  
4617 9.5 174410.6 -0935.4

4618 9.4 174452.4 -0904.8  
4619 9.4 174610.5 -0946.1  
4620 8.9 174707.1 -0949.4  
4621 8.8 174830.4 -0935.2  
4622 9.8 174859.5 -0903.2  
4623 9.2 174940.7 -0911.6  
4624 9.0 174955.7 -0918.1  
4625 9.0 174959.0 -0946.4  
4626 9.1 175012.6 -0905.1  
4627 9.5 175025.0 -0924.7

4628 9.5 175030.9 -0931.6  
4629 10. 175045.8 -0938.3  
4630 10. 175050.2 -0932.9  
4631 9.0 175058.2 -0900.0  
4632 3.8 175102.5 -0945.2  
4633 9.8 175124.5 -0954.1  
4634 9.8 175134.3 -0930.0  
4635 10. 175204.8 -0921.1  
4636 9.7 175219.3 -0907.8  
4637 8.9 175222.6 -0930.0

4638 9.4 175227.9 -0928.3  
4639 9.0 175348.9 -0902.5  
4640 10. 175420.8 -0913.5  
4641 9.5 175444.4 -0947.0  
4642 7.0 175556.7 -0914.5  
4643 9.0 175627.0 -0915.4  
4644 8.9 175627.4 -0958.5  
4645 9.1 175709.2 -0917.6  
4646 8.2 175713.1 -0935.0  
4647 9.4 175713.1 -0912.4

4648 9.8 175732.0 -0959.4  
4649 8.0 175747.7 -0916.0  
4650 9.7 175901.9 -0939.0  
4651 10. 175909.0 -0902.2  
4652 7.3 175936.7 -0911.6  
4653 9.5 175942.5 -0925.3  
4654 8.6 180038.0 -0949.5  
4655 9.5 180055.7 -0923.7  
4656 9.1 180109.4 -0927.5  
4657 9.2 180116.5 -0946.4

4658 9.4 180151.4 -0921.7  
4659 8.9 180159.2 -0914.7  
4660 9.0 180205.0 -0942.5  
4661 9.5 180210.6 -0929.2  
4662 9.3 180211.7 -0907.1  
4663 9.6 180238.6 -0933.5  
4664 9.5 180243.4 -0933.7  
4665 9.6 180310.9 -0945.4  
4666 9.6 180320.1 -0922.6  
4667 9.5 180333.3 -0918.0

4668 9.8 180343.7 -0911.7  
4669 8.2 180349.3 -0934.3  
4670 9.2 180448.8 -0903.2  
4671 8.9 180606.4 -0954.5  
4672 8.8 180626.3 -0934.1  
4673 8.8 180635.1 -0921.8  
4674 8.8 180645.9 -0956.5  
4675 9.0 180744.3 -0959.5  
4676 8.0 180816.0 -0951.0  
4677 9.5 180831.4 -0959.5

4678 6.2 180924.8 -0948.2  
4679 9.8 180929.7 -0951.3  
4680 8.4 180941.7 -0925.1  
4681 9.0 180946.1 -0946.5  
4682 9.2 180956.9 -0954.2  
4683 8.9 180959.1 -0941.8  
4684 8.8 181007.3 -0923.3  
4685 8.7 181007.6 -0946.1  
4686 9.5 181037.4 -0906.1  
4687 9.1 181049.2 -0932.3

-09 4777 18h29m

4688 9.3 181054.0 -0918.8  
4689 9.5 181120.0 -0908.5  
4690 8.4 181129.5 -0951.9  
4691 9.0 181137.6 -0933.9  
4692 7.0 181207.3 -0938.6  
4693 9.3 181218.8 -0909.2  
4694 9.6 181227.0 -0942.7  
4695 9.5 181243.6 -0934.9  
4696 9.8 181301.5 -0914.2  
4697 9.4 181308.5 -0912.5

4698 8.6 181337.8 -0915.6  
4699 9.2 181352.5 -0914.2  
4700 9.4 181411.7 -0909.1  
4701 9.7 181437.0 -0949.7  
4702 9.4 181439.5 -0942.5  
4703 9.5 181444.8 -0918.3  
4704 9.1 181452.6 -0935.0  
4705 9.6 181500.8 -0930.1  
4706 9.5 181506.5 -0951.9  
4707 9.6 181517.5 -0949.7

4708 9.8 181520.3 -0928.1  
4709 8.5 181529.5 -0916.2  
4710 9.5 181535.1 -0927.9  
4711 9.3 181535.7 -0913.5  
4712 5.5 181543.2 -0900.4  
4713 8.5 181553.4 -0958.2  
4714 9.3 181553.6 -0928.5  
4715 10. 181620.1 -0926.8  
4716 9.5 181624.1 -0937.9  
4717 9.2 181636.5 -0958.4

4718 9.5 181640.4 -0959.3  
4719 8.9 181645.9 -0925.4  
4720 10. 181652.6 -0952.5  
4721 9.3 181704.6 -0940.3  
4722 9.1 181716.5 -0944.9  
4723 9.5 181719.2 -0922.4  
4724 9.4 181722.9 -0923.2  
4725 9.8 181723.1 -0941.3  
4726 9.5 181727.5 -0946.9  
4727 9.7 181735.1 -0931.5

4728 9.1 181736.1 -0935.7  
4729 8.3 181744.5 -0949.7  
4730 9.6 181751.7 -0905.0  
4731 8.5 181802.9 -0932.4  
4732 9.5 181812.6 -0925.8  
4733 9.5 181820.2 -0934.8  
4734 9.8 181822.8 -0922.8  
4735 9.5 181836.0 -0950.0  
4736 7.5 181837.3 -0916.4  
4737 9.8 181904.6 -0935.5

4738 9.5 181906.9 -0956.5  
4739 9.0 181955.2 -0906.5  
4740 9.6 182006.8 -0918.1  
4741 9.5 182010.5 -0943.7  
4742 9.3 182020.2 -0940.5  
4743 9.3 182026.6 -0927.4  
4744 9.9 182048.3 -0910.1  
4745 8.6 182051.5 -0943.4  
4746 9.5 182125.9 -0925.7  
4747 5.5 182131.2 -0901.1

4748 9.5 182136.0 -0917.4  
4749 8.0 182137.3 -0923.0  
4750 9.8 182156.2 -0927.2  
4751 9.5 182213.1 -0936.1  
4752 9.7 182222.8 -0918.5  
4753 9.6 182252.9 -0923.6  
4754 9.1 182258.8 -0907.9  
4755 9.8 182312.1 -0959.2  
4756 8.8 182320.2 -0935.2  
4757 9.8 182330.2 -0903.0

4758 9.5 182333.3 -0952.0  
4759 9.5 182348.3 -0921.0  
4760 9.5 182350.2 -0932.0  
4761 9.0 182359.6 -0908.8  
4762 7.7 182414.4 -0928.2  
4763 9.6 182506.2 -0903.9  
4764 9.5 182515.2 -0922.6  
4765 9.3 182536.3 -0903.0  
4766 9.5 182556.3 -0917.3  
4767 9.0 182623.5 -0946.7

4768 8.6 182716.3 -0930.7  
4769 9.7 182725.0 -0905.8  
4770 8.3 182734.7 -0909.9  
4771 8.5 182734.7 -0935.9  
4772 9.2 182743.1 -0941.7  
4773 9.5 182800.7 -0935.4  
4774 9.5 182811.5 -0952.1  
4775 9.9 182833.0 -0948.0  
4776 9.5 182858.7 -0916.0  
4777 9.3 182919.6 -0930.3



-09 4778 18h29m

4778 9.4 182957.5 -0956.8  
4779 8.5 183001.2 -0904.6  
4780 9.4 183001.6 -0940.2  
4781 9.5 183026.7 -0905.1  
4782 9.4 183041.9 -0900.4  
4783 9.3 183055.9 -0914.6  
4784 9.1 183153.4 -0913.1  
4785 9.8 183158.8 -0935.2  
4786 9.8 183213.9 -0934.0  
4787 9.8 183214.4 -0945.6  
  
4788 9.6 183214.7 -0927.8  
4789 9.4 183216.4 -0924.8  
4790 8.3 183224.9 -0916.2  
4791 8.8 183319.8 -0934.1  
4792 9.7 183325.2 -0912.7  
4793 9.2 183405.4 -0915.8  
4794 9.8 183412.2 -0923.0  
4795 9.0 183419.4 -0916.0  
4796 5.0 183420.1 -0911.2  
4797 10. 183423.2 -0911.7  
  
4798 8.7 183425.2 -0937.4  
4799 9.4 183427.6 -0900.9  
4800 9.0 183444.0 -0934.6  
4801 9.8 183457.2 -0906.8  
4802 8.3 183507.3 -0918.7  
4803 9.8 183529.3 -0904.5  
4804 9.0 183531.4 -0910.8  
4805 8.8 183533.0 -0927.8  
4806 9.5 183542.1 -0937.5  
4807 9.5 183545.1 -0934.5  
  
4808 9.5 183545.1 -0950.0  
4809 9.0 183550.0 -0944.9  
4810 9.8 183556.0 -0959.1  
4811 8.3 183556.1 -0904.3  
4812 9.6 183603.9 -0928.0  
4813 9.8 183623.0 -0957.6  
4814 9.5 183629.4 -0924.8  
4815 9.0 183634.6 -0927.0  
4816 9.4 183636.5 -0957.1  
4817 9.5 183639.6 -0940.1  
  
4818 9.8 183649.0 -0950.0  
4819 8.8 183714.3 -0932.8  
4820 9.7 183717.4 -0931.8  
4821 9.7 183718.8 -0933.6  
4822 10. 183721.8 -0927.9  
4823 9.8 183725.0 -0931.6  
4824 9.5 183736.5 -0956.8  
4825 9.8 183751.3 -0923.1  
4826 9.5 183751.3 -0913.5  
4827 9.5 183757.1 -0905.9  
  
4828 9.0 183804.2 -0937.0  
4829 9.5 183819.5 -0955.3  
4830 9.3 183828.9 -0920.4  
4831 9.1 183835.8 -0901.6  
4832 9.1 183848.5 -0953.8  
4833 9.3 183903.7 -0948.4  
4834 9.3 183906.1 -0947.4  
4835 8.9 183927.5 -0927.9  
4836 9.5 183934.8 -0907.3  
4837 9.5 183959.5 -0955.8  
  
4838 9.0 184006.4 -0910.1  
4839 9.2 184011.4 -0916.0  
4840 9.1 184057.3 -0911.1  
4841 9.0 184101.6 -0908.7  
4842 9.5 184114.6 -0933.0  
4843 9.5 184117.7 -0926.0  
4844 9.9 184125.1 -0937.2  
4845 9.2 184126.5 -0951.1  
4846 9.5 184140.6 -0947.7  
4847 9.0 184141.3 -0911.4  
  
4848 9.7 184148.0 -0931.9  
4849 9.7 184209.3 -0901.2  
4850 9.7 184211.8 -0904.8  
4851 9.7 184223.3 -0941.0  
4852 9.0 184238.5 -0947.4  
4853 9.8 184239.4 -0901.1  
4854 9.0 184243.3 -0902.5  
4855 9.4 184244.1 -0916.1  
4856 10. 184254.1 -0907.3  
4857 9.5 184256.6 -0926.2  
  
4858 9.0 184259.0 -0959.5  
4859 6.3 184300.0 -0956.1  
4860 9.8 184300.4 -0905.2  
4861 9.3 184322.0 -0925.6  
4862 8.8 184323.0 -0912.1  
4863 8.7 184341.5 -0954.7  
4864 9.2 184353.0 -0927.4  
4865 10. 184400.6 -0953.6  
4866 9.1 184403.3 -0926.3  
4867 9.4 184409.1 -0914.0

4868 8.0 184410.8 -0915.3  
4869 9.4 184423.2 -0948.9  
4870 9.8 184430.9 -0922.1  
4871 9.0 184438.3 -0906.3  
4872 9.5 184457.6 -0939.4  
4873 10. 184457.9 -0951.1  
4874 9.3 184501.0 -0926.7  
4875 9.4 184501.5 -0904.7  
4876 6.6 184504.4 -0945.2  
4877 9.5 184517.1 -0911.6  
  
4878 9.5 184519.2 -0913.7  
4879 9.9 184522.5 -0959.1  
4880 9.5 184526.7 -0934.9  
4881 9.8 184539.2 -0933.6  
4882 10. 184544.6 -0946.5  
4883 9.3 184547.3 -0913.8  
4884 9.5 184552.9 -0906.1  
4885 9.5 184553.6 -0910.8  
4886 7.5 184559.7 -0932.8  
4887 9.3 184603.6 -0946.6  
  
4888 9.0 184607.7 -0941.2  
4889 9.5 184618.8 -0906.4  
4890 9.2 184625.1 -0939.1  
4891 9.5 184632.6 -0947.7  
4892 9.2 184637.7 -0941.6  
4893 9.4 184639.4 -0906.9  
4894 9.2 184641.0 -0955.0  
4895 9.1 184645.9 -0937.8  
4896 8.8 184651.1 -0910.4  
4897 9.8 184651.8 -0924.3  
  
4898 9.5 184652.7 -0931.5  
4899 9.8 184702.0 -0924.9  
4900 9.0 184702.3 -0910.9  
4901 9.2 184712.0 -0903.1  
4902 9.8 184715.6 -0953.9  
4903 9.7 184721.9 -0903.1  
4904 9.7 184734.6 -0949.4  
4905 10. 184742.2 -0901.4  
4906 8.4 184744.0 -0927.4  
4907 9.5 184745.1 -0923.5  
  
4908 9.4 184748.2 -0941.7  
4909 9.2 184808.7 -0934.8  
4910 9.5 184814.6 -0929.5  
4911 9.0 184828.4 -0908.7  
4912 9.3 184836.3 -0911.8  
4913 9.6 184837.5 -0956.3  
4914 9.3 184847.7 -0920.1  
4915 9.5 184855.1 -0954.4  
4916 9.3 184907.2 -0907.5  
4917 9.0 184910.8 -0903.5  
  
4918 9.7 184914.9 -0900.7  
4919 9.5 184936.1 -0947.1  
4920 8.5 184943.0 -0957.9  
4921 9.2 184945.4 -0936.0  
4922 9.4 184946.3 -0911.2  
4923 9.2 184959.6 -0908.5  
4924 9.8 185001.8 -0906.1  
4925 9.8 185013.6 -0946.0  
4926 9.1 185018.5 -0956.3  
4927 8.9 185020.8 -0930.0  
  
4928 9.5 185028.1 -0944.5  
4929 8.9 185044.0 -0918.9  
4930 9.8 185044.1 -0908.8  
4931 10. 185052.4 -0943.1  
4932 9.8 185053.6 -0909.3  
4933 9.3 185102.7 -0946.9  
4934 9.5 185103.7 -0942.9  
4935 7.5 185111.3 -0909.5  
4936 9.1 185111.7 -0945.3  
4937 9.2 185115.7 -0944.0  
  
4938 9.4 185135.1 -0955.2  
4939 9.2 185143.2 -0930.0  
4940 9.3 185143.4 -0948.4  
4941 9.2 185147.7 -0937.4  
4942 9.4 185149.8 -0922.7  
4943 8.8 185204.3 -0901.0  
4944 9.4 185206.9 -0922.0  
4945 9.5 185239.5 -0957.9  
4946 9.5 185246.4 -0910.2  
4947 9.6 185251.0 -0943.8  
  
4948 9.4 185255.0 -0943.4  
4949 9.8 185257.4 -0918.5  
4950 10. 185301.9 -0949.0  
4951 9.5 185304.1 -0950.8  
4952 9.4 185311.9 -0939.0  
4953 9.1 185315.6 -0954.9  
4954 9.3 185324.6 -0944.4  
4955 9.7 185352.4 -0914.1  
4956 10. 185359.7 -0928.5  
4957 9.2 185403.3 -0930.4

4958 9.5 185413.6 -0942.5  
4959 10. 185424.9 -0922.9  
4960 9.2 185428.1 -0903.0  
4961 8.7 185438.7 -0902.1  
4962 9.1 185439.2 -0901.0  
4963 8.2 185440.1 -0908.2  
4964 9.6 185442.9 -0917.6  
4965 9.1 185443.6 -0951.5  
4966 9.5 185445.4 -0917.7  
4967 9.4 185453.5 -0928.9  
  
4968 9.1 185456.1 -0910.8  
4969 9.4 185527.9 -0909.9  
4970 9.5 185530.5 -0956.3  
4971 8.9 185532.6 -0946.9  
4972 9.5 185539.3 -0900.3  
4973 9.4 185543.1 -0948.5  
4974 9.3 185614.9 -0917.1  
4975 9.3 185622.8 -0905.9  
4976 9.8 185628.2 -0914.3  
4977 8.7 185629.1 -0944.8  
  
4978 8.8 185631.9 -0912.2  
4979 9.0 185645.7 -0901.2  
4980 9.4 185652.3 -0957.6  
4981 9.5 185655.9 -0908.1  
4982 9.0 185719.4 -0903.0  
4983 9.8 185736.4 -0923.3  
4984 9.5 185743.9 -0922.9  
4985 9.8 185747.1 -0954.8  
4986 8.0 185759.1 -0906.9  
4987 6.6 185812.7 -0950.7  
  
4988 9.1 185816.0 -0949.6  
4989 10. 185821.2 -0949.9  
4990 9.5 185821.3 -0931.2  
4991 9.8 185825.9 -0905.1  
4992 10. 185827.8 -0947.6  
4993 9.7 185828.8 -0954.3  
4994 10. 185842.8 -0934.6  
4995 9.5 185843.5 -0908.7  
4996 9.4 185844.9 -0903.1  
4997 9.4 185853.3 -0904.2  
  
4998 10. 185854.0 -0922.1  
4999 9.7 185919.1 -0926.7  
5000 8.5 185922.4 -0937.8  
5001 9.1 185922.4 -0940.3  
5002 9.0 185923.0 -0912.3  
5003 10. 185923.2 -0924.7  
5004 9.3 185930.0 -0924.5  
5005 9.1 185948.9 -0915.2  
5006 9.5 185953.4 -0951.0  
5007 10. 185955.5 -0913.0  
  
5008 9.4 190001.5 -0924.7  
5009 9.0 190016.9 -0907.6  
5010 9.6 190030.0 -0913.2  
5011 9.8 190043.0 -0905.8  
5012 9.5 190045.1 -0946.6  
5013 8.4 190048.0 -0931.9  
5014 9.2 190054.2 -0945.6  
5015 8.0 190101.9 -0902.5  
5016 9.3 190111.7 -0903.4  
5017 9.7 190112.3 -0916.5  
  
5018 9.5 190126.2 -0940.1  
5019 9.8 190131.0 -0921.2  
5020 8.6 190142.0 -0932.5  
5021 9.4 190209.5 -0915.4  
5022 7.5 190210.3 -0923.3  
5023 9.8 190225.2 -0943.8  
5024 9.2 190234.1 -0921.4  
5025 9.5 190239.6 -0920.5  
5026 9.5 190245.2 -0941.7  
5027 9.0 190325.5 -0921.0  
  
5028 9.4 190332.2 -0941.8  
5029 9.9 190338.2 -0941.4  
5030 9.1 190341.3 -0947.2  
5031 9.6 190343.0 -0909.4  
5032 9.5 190412.6 -0916.2  
5033 9.0 190424.5 -0910.1  
5034 9.0 190425.5 -0930.2  
5035 9.7 190439.2 -0932.5  
5036 8.5 190444.5 -0910.9  
5037 9.3 190450.7 -0954.3  
  
5038 9.5 190502.7 -0944.9  
5039 9.8 190511.7 -0947.3  
5040 9.7 190512.7 -0935.0  
5041 8.8 190515.2 -0955.7  
5042 9.6 190517.2 -0945.5  
5043 9.4 190519.9 -0955.5  
5044 9.4 190524.6 -0925.1  
5045 9.3 190533.5 -0904.4  
5046 9.3 190547.3 -0932.8  
5047 9.0 190613.0 -0904.5

5048 9.0 190621.8 -0918.4  
5049 9.4 190621.9 -0932.4  
5050 9.4 190622.9 -0930.6  
5051 9.1 190638.9 -0910.1  
5052 9.0 190641.5 -0902.6  
5053 10. 190651.8 -0902.7  
5054 9.8 190703.1 -0905.1  
5055 8.9 190704.2 -0950.6  
5056 9.3 190707.7 -0941.3  
5057 9.5 190712.9 -0913.0  
  
5058 10. 190733.4 -0909.3  
5059 9.1 190735.0 -0900.4  
5060 9.7 190736.9 -0924.6  
5061 9.6 190748.7 -0914.9  
5062 9.0 190751.0 -0945.0  
5063 9.6 190751.3 -0940.8  
5064 9.8 190805.4 -0916.4  
5065 9.5 190816.4 -0922.1  
5066 9.6 190917.9 -0926.5  
5067 9.3 190826.8 -0940.7  
  
5068 9.3 190829.8 -0940.7  
5069 10. 190821.7 -0918.1  
5070 9.5 190832.4 -0900.4  
5071 10. 190837.2 -0937.1  
5072 8.9 190850.8 -0940.8  
5073 9.2 190918.7 -0951.8  
5074 9.0 190921.5 -0939.5  
5075 9.3 190931.8 -0959.7  
5076 9.8 190943.0 -0930.1  
5077 9.4 190947.3 -0907.6  
  
5078 10. 191000.2 -0919.9  
5079 7.8 191002.9 -0956.3  
5080 9.5 191004.8 -0924.1  
5081 10. 191008.2 -0945.9  
5082 9.1 191009.5 -0910.9  
5083 9.7 191010.4 -0950.2  
5084 9.3 191013.6 -0952.5  
5085 9.3 191102.5 -0915.7  
5086 9.4 191105.2 -0925.9  
5087 9.3 191111.5 -0921.7  
  
5088 8.5 191122.5 -0912.3  
5089 9.2 191140.7 -0901.5  
5090 9.1 191149.3 -0916.0  
5091 8.5 191155.3 -0942.7  
5092 8.3 191204.0 -0924.6  
5093 8.5 191205.2 -0908.0  
5094 7.5 191206.3 -0939.8  
5095 9.0 191207.8 -0944.7  
5096 9.8 191231.5 -0919.9  
5097 9.5 191236.8 -0949.5  
  
5098 9.5 191248.0 -0905.7  
5099 9.0 191252.9 -0953.7  
5100 9.5 191311.6 -0956.2  
5101 9.5 191322.4 -0941.2  
5102 9.5 191342.5 -0905.4  
5103 9.4 191344.9 -0951.9  
5104 9.8 191406.5 -0926.2  
5105 9.8 191424.3 -0918.1  
5106 9.9 191437.7 -0910.8  
5107 8.9 191438.0 -0940.0  
  
5108 8.6 191443.8 -0901.5  
5109 10. 191459.7 -0922.4  
5110 9.1 191501.0 -0926.5  
5111 9.4 191503.0 -0931.7  
5112 9.3 191503.5 -0915.6  
5113 9.3 191512.3 -0935.6  
5114 9.2 191520.4 -0925.5  
5115 9.2 191522.2 -0913.1  
5116 9.8 191526.3 -0946.2  
5117 9.4 191528.1 -0920.8  
  
5118 9.4 191530.6 -0927.5  
5119 9.5 191540.2 -0924.4  
5120 9.0 191609.9 -0939.4  
5121 9.7 191610.3 -0942.0  
5122 9.5 191613.7 -0924.1  
5123 7.8 191627.0 -0936.8  
5124 9.2 191635.0 -0926.1  
5125 8.7 191659.9 -0943.9  
5126 9.6 191736.2 -0955.0  
5127 9.7 191736.5 -0942.9  
  
5128 9.5 191749.0 -0940.4  
5129 9.0 191754.9 -0950.3  
5130 8.1 191802.0 -0917.5  
5131 9.5 191815.8 -0900.5  
5132 9.4 191846.8 -0925.0  
5133 9.9 191919.5 -0941.3  
5134 9.7 191922.9 -0959.0  
5135 9.4 191937.5 -0953.4  
5136 9.5 191942.8 -0904.4  
5137 9.7 191945.3 -0918.0

-09 5137 19h19m



-09 5138 19h19m

-09 5497 20h26m

|                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 5138 9.5 191951.2 -0918.0  | 5228 9.7 193640.0 -0928.5  | 5318 9.3 195242.0 -0934.9  | 5408 9.5 200817.4 -0945.8  |
| 5139 9.0 191958.3 -0923.4  | 5229 9.2 193700.9 -0928.4  | 5319 9.5 195247.1 -0925.3  | 5409 9.5 200829.2 -0948.0  |
| 5140 9.7 191959.9 -0929.1  | 5230 8.8 193715.4 -0944.7  | 5320 9.5 195248.6 -0934.7  | 5410 9.7 200841.7 -0952.4  |
| 5141 8.3 192004.6 -0942.9  | 5231 10.1 193717.8 -0951.2 | 5321 9.4 195255.5 -0950.8  | 5411 10.1 200847.6 -0952.4 |
| 5142 9.5 192016.9 -0916.1  | 5232 9.1 193723.0 -0909.8  | 5322 9.4 195259.0 -0913.7  | 5412 9.5 200855.3 -0935.9  |
| 5143 8.0 192017.5 -0949.8  | 5233 9.5 193734.7 -0958.0  | 5323 8.9 195258.1 -0914.8  | 5413 9.5 200901.1 -0957.6  |
| 5144 9.7 192018.8 -0905.6  | 5234 9.8 193734.9 -0935.7  | 5324 8.0 195258.9 -0953.1  | 5414 9.1 200938.7 -0946.5  |
| 5145 9.9 192030.0 -0915.8  | 5235 9.5 193735.4 -0927.5  | 5325 9.5 195334.0 -0924.2  | 5415 9.5 200940.1 -0933.1  |
| 5146 8.4 192039.6 -0929.9  | 5236 9.5 193750.8 -0949.4  | 5326 9.3 195341.1 -0912.8  | 5416 9.8 200950.8 -0908.4  |
| 5147 9.5 192045.2 -0919.1  | 5237 9.5 193752.8 -0953.8  | 5327 9.2 195353.7 -0948.6  | 5417 8.5 200951.4 -0918.0  |
| 5148 9.3 192046.3 -0904.6  | 5238 9.5 193757.4 -0928.6  | 5328 9.5 195417.6 -0910.8  | 5418 10.1 200955.3 -0933.6 |
| 5149 9.7 192049.5 -0904.0  | 5239 9.2 193802.5 -0905.9  | 5329 9.8 195427.0 -0943.0  | 5419 9.8 200959.5 -0932.4  |
| 5150 9.5 192052.6 -0911.9  | 5240 9.2 193807.5 -0934.6  | 5330 9.1 195433.0 -0947.2  | 5420 10.1 201002.0 -0947.1 |
| 5151 9.6 192057.2 -0929.0  | 5241 9.1 193818.5 -0905.7  | 5331 9.6 195433.6 -0922.8  | 5421 9.1 201004.9 -0915.0  |
| 5152 9.9 192058.0 -0948.5  | 5242 9.4 193841.5 -0902.3  | 5332 9.0 195441.9 -0958.7  | 5422 9.2 201027.2 -0921.5  |
| 5153 9.8 192013.8 -0911.8  | 5243 9.5 193900.8 -0930.8  | 5333 9.5 195449.1 -0916.1  | 5423 10.1 201044.4 -0930.2 |
| 5154 9.7 192021.7 -0930.4  | 5244 8.8 193927.5 -0963.0  | 5334 9.5 195452.5 -0919.5  | 5424 9.5 201058.7 -0912.0  |
| 5155 9.4 192038.5 -0922.7  | 5245 10.1 193957.9 -0915.3 | 5335 9.1 195501.0 -0921.3  | 5425 9.1 201117.1 -0929.0  |
| 5156 9.9 192045.1 -0927.8  | 5246 9.2 194006.4 -0918.4  | 5336 8.3 195504.1 -0913.8  | 5426 9.4 201122.8 -0910.6  |
| 5157 9.6 192047.9 -0954.2  | 5247 9.4 194033.7 -0942.9  | 5337 7.8 195508.3 -0926.3  | 5427 9.6 201132.7 -0908.2  |
| 5158 9.8 192249.4 -0905.2  | 5248 9.2 194036.7 -0936.0  | 5338 9.3 195525.7 -0908.2  | 5428 9.1 201142.9 -0953.7  |
| 5159 9.5 192255.3 -0933.0  | 5249 9.4 194037.2 -0926.7  | 5339 10.1 195551.5 -0949.3 | 5429 9.2 201149.2 -0925.2  |
| 5160 9.1 192258.7 -0928.3  | 5250 9.5 194041.9 -0934.3  | 5340 9.0 195557.6 -0907.7  | 5430 9.9 201201.8 -0934.7  |
| 5161 9.8 192300.6 -0904.4  | 5251 9.8 194053.4 -0929.7  | 5341 9.8 195557.7 -0921.4  | 5431 9.4 201218.2 -0928.5  |
| 5162 9.7 192320.4 -0910.0  | 5252 9.8 194055.4 -0911.3  | 5342 9.4 195605.6 -0927.3  | 5432 9.1 201218.5 -0939.8  |
| 5163 9.7 192336.2 -0919.4  | 5253 8.0 194120.5 -0917.0  | 5343 7.6 195607.8 -0930.8  | 5433 9.1 201241.9 -0925.6  |
| 5164 9.1 192330.7 -0908.6  | 5254 9.7 194130.2 -0943.3  | 5344 8.5 195608.3 -0926.0  | 5434 9.1 201243.7 -0938.4  |
| 5165 9.4 192356.2 -0935.7  | 5255 9.5 194150.9 -0934.6  | 5345 9.3 195610.3 -0945.6  | 5435 9.5 201245.3 -0933.4  |
| 5166 9.3 192400.5 -0934.6  | 5256 9.5 194152.0 -0931.4  | 5346 9.5 195610.7 -0916.3  | 5436 9.1 201247.2 -0950.8  |
| 5167 9.0 192407.4 -0947.2  | 5257 9.5 194158.0 -0903.5  | 5347 8.2 195634.3 -0950.6  | 5437 8.9 201248.4 -0949.7  |
| 5168 8.8 192416.3 -0915.9  | 5258 9.5 194206.0 -0904.0  | 5348 9.8 195648.0 -0912.1  | 5438 9.5 201257.3 -0917.4  |
| 5169 9.0 192436.8 -0918.6  | 5259 9.5 194216.4 -0940.8  | 5349 9.2 195653.6 -0943.2  | 5439 9.5 201316.8 -0920.7  |
| 5170 9.5 192437.0 -0954.3  | 5260 9.1 194235.8 -0956.8  | 5350 9.8 195707.5 -0920.7  | 5440 9.2 201330.5 -0903.9  |
| 5171 9.7 192523.9 -0928.4  | 5261 9.4 194240.4 -0919.5  | 5351 9.5 195714.1 -0957.9  | 5441 9.2 201330.9 -0930.7  |
| 5172 9.4 192535.1 -0914.8  | 5262 10.1 194242.5 -0919.4 | 5352 9.6 195738.4 -0914.7  | 5442 9.5 201335.8 -0911.4  |
| 5173 9.5 192545.0 -0902.1  | 5263 9.0 194306.9 -0922.4  | 5353 9.5 195742.1 -0943.2  | 5443 9.8 201336.4 -0956.6  |
| 5174 9.5 192545.8 -0941.1  | 5264 8.9 194307.8 -0912.7  | 5354 9.1 195826.5 -0956.3  | 5444 8.2 201442.7 -0928.5  |
| 5175 9.6 192654.9 -0905.7  | 5265 9.6 194312.1 -0903.4  | 5355 9.8 195853.6 -0924.6  | 5445 7.5 201443.3 -0917.2  |
| 5176 9.4 192714.6 -0929.3  | 5266 9.8 194317.2 -0927.1  | 5356 7.5 195903.2 -0919.5  | 5446 9.8 201451.4 -0900.1  |
| 5177 9.5 192719.5 -0944.4  | 5267 8.1 194324.8 -0953.4  | 5357 9.3 195908.1 -0943.1  | 5447 9.8 201500.1 -0903.7  |
| 5178 9.4 192740.9 -0909.0  | 5268 9.5 194741.5 -0909.3  | 5358 9.3 195913.7 -0922.4  | 5448 9.3 201506.1 -0959.8  |
| 5179 8.0 192744.2 -0934.9  | 5269 9.6 194402.9 -0916.5  | 5359 9.3 195917.2 -0911.7  | 5449 9.5 201542.5 -0913.4  |
| 5180 9.9 192744.2 -0921.1  | 5270 9.6 194411.0 -0923.0  | 5360 10.1 195918.1 -0937.0 | 5450 9.1 201546.1 -0906.8  |
| 5181 9.7 192806.2 -0933.5  | 5271 10.1 194421.7 -0936.5 | 5361 9.8 195937.1 -0973.5  | 5451 10.1 201554.6 -0907.2 |
| 5182 9.6 192809.9 -0906.4  | 5272 8.7 194424.3 -0955.7  | 5362 9.6 195946.0 -0972.1  | 5452 9.0 201556.1 -0913.8  |
| 5183 8.5 192818.4 -0925.9  | 5273 9.5 194426.3 -0921.1  | 5363 9.0 195957.8 -0975.3  | 5453 9.1 201604.4 -0920.5  |
| 5184 8.5 192827.5 -0926.5  | 5274 9.7 194435.5 -0931.9  | 5364 8.8 200002.1 -0966.2  | 5454 9.4 201614.9 -0913.4  |
| 5185 9.5 192846.1 -0925.1  | 5275 9.5 194445.0 -0917.8  | 5365 9.1 200011.4 -0977.5  | 5455 9.0 201633.2 -0901.1  |
| 5186 9.8 192855.8 -0957.7  | 5276 9.1 194514.9 -0946.1  | 5366 9.2 200037.6 -0961.7  | 5456 9.1 201637.6 -0930.9  |
| 5187 9.5 192855.8 -0922.0  | 5277 9.7 194532.5 -0922.6  | 5367 9.4 200039.1 -0961.7  | 5457 7.0 201653.6 -0914.0  |
| 5188 9.5 192908.3 -0939.8  | 5278 8.8 194539.3 -0907.4  | 5368 9.8 200112.0 -0951.2  | 5458 9.4 201655.1 -0923.7  |
| 5189 9.5 192955.1 -0930.6  | 5279 9.2 194540.1 -0921.2  | 5369 9.8 200112.6 -0931.4  | 5459 10.1 201658.0 -0947.4 |
| 5190 9.1 193004.8 -0933.0  | 5280 9.8 194544.0 -0935.3  | 5370 9.3 200118.1 -0931.9  | 5460 10.1 201703.6 -0908.4 |
| 5191 9.6 193017.5 -0948.3  | 5281 9.3 194601.8 -0920.8  | 5371 9.5 200125.7 -0911.0  | 5461 10.1 201707.9 -0934.6 |
| 5192 9.1 193032.0 -0927.1  | 5282 9.6 194637.6 -0935.7  | 5372 9.4 200138.2 -0911.0  | 5462 9.7 201720.0 -0936.2  |
| 5193 9.8 193035.9 -0923.2  | 5283 9.2 194651.5 -0917.5  | 5373 8.7 200144.7 -0935.0  | 5463 9.7 201747.0 -0928.9  |
| 5194 9.8 193038.5 -0912.4  | 5284 9.5 194652.0 -0929.5  | 5374 9.8 200202.7 -0932.9  | 5464 8.7 201800.8 -0905.2  |
| 5195 9.1 193103.9 -0949.6  | 5285 9.8 194713.6 -0912.2  | 5375 9.4 200212.7 -0912.4  | 5465 10.1 201818.3 -0944.2 |
| 5196 9.1 193111.9 -0910.7  | 5286 9.9 194731.3 -0949.0  | 5376 9.5 200230.3 -0926.8  | 5466 9.7 201907.3 -0950.0  |
| 5197 9.5 193132.9 -0921.5  | 5287 9.9 194731.9 -0958.3  | 5377 9.0 200237.9 -0917.6  | 5467 9.6 201915.0 -0933.0  |
| 5198 9.5 193134.4 -0907.9  | 5288 9.1 194745.6 -0907.4  | 5378 9.5 200241.1 -0922.3  | 5468 9.1 201916.4 -0936.4  |
| 5199 9.7 193205.3 -0955.7  | 5289 8.7 194746.8 -0907.6  | 5379 9.1 200254.2 -0942.3  | 5469 10.1 202002.7 -0953.2 |
| 5200 9.8 193207.3 -0930.8  | 5290 9.7 194755.0 -0930.2  | 5380 10.1 200305.6 -0951.2 | 5470 9.7 202004.2 -0957.2  |
| 5201 9.7 193222.9 -0927.9  | 5291 8.9 194758.0 -0939.3  | 5381 9.8 200316.6 -0920.2  | 5471 9.5 202004.9 -0955.8  |
| 5202 9.5 193252.8 -0902.2  | 5292 9.8 194804.0 -0913.1  | 5382 6.5 200318.9 -0916.0  | 5472 9.5 202020.8 -0917.8  |
| 5203 8.4 193254.3 -0927.7  | 5293 9.4 194805.2 -0901.9  | 5383 9.9 200328.6 -0939.5  | 5473 7.0 202034.8 -0950.8  |
| 5204 8.4 193311.0 -0945.0  | 5294 9.0 194817.1 -0907.2  | 5384 9.3 200334.7 -0912.2  | 5474 9.0 202036.3 -0911.0  |
| 5205 9.8 193342.2 -0910.6  | 5295 9.8 194853.4 -0951.3  | 5385 9.4 200358.2 -0919.6  | 5475 10.1 202040.1 -0923.2 |
| 5206 9.6 193354.1 -0953.1  | 5296 9.5 194903.4 -0956.7  | 5386 9.5 200401.6 -0951.7  | 5476 9.8 202047.4 -0937.6  |
| 5207 9.8 193400.9 -0914.2  | 5297 8.8 194913.6 -0931.1  | 5387 9.4 200419.8 -0924.5  | 5477 9.0 202101.3 -0905.5  |
| 5208 9.9 193406.2 -0918.0  | 5298 9.7 194924.3 -0935.7  | 5388 9.8 200423.2 -0942.8  | 5478 9.6 202127.0 -0931.9  |
| 5209 9.6 193407.9 -0921.5  | 5299 9.4 194929.2 -0938.8  | 5389 9.4 200426.9 -0916.9  | 5479 9.0 202134.8 -0933.8  |
| 5210 9.2 193415.3 -0925.2  | 5300 9.5 194933.9 -0957.2  | 5390 9.5 200455.2 -0904.0  | 5480 10.1 202149.1 -0903.5 |
| 5211 9.3 193419.8 -0942.7  | 5301 9.5 194949.1 -0901.3  | 5391 10.1 200457.8 -0935.2 | 5481 9.3 202236.7 -0954.1  |
| 5212 9.5 193420.4 -0955.1  | 5302 8.1 194952.9 -0936.2  | 5392 10.1 200457.9 -0942.8 | 5482 9.1 202245.2 -0936.3  |
| 5213 8.6 193424.6 -0943.1  | 5303 7.4 195001.0 -0926.2  | 5393 9.4 200511.1 -0918.5  | 5483 9.8 202257.8 -0951.8  |
| 5214 9.6 193435.6 -0910.5  | 5304 8.6 195007.0 -0927.4  | 5394 9.3 200511.7 -0919.8  | 5484 9.5 202319.4 -0940.8  |
| 5215 9.7 193444.5 -0909.9  | 5305 9.3 195010.5 -0949.2  | 5395 9.0 200548.1 -0936.1  | 5485 9.7 202344.3 -0945.2  |
| 5216 9.7 193449.2 -0923.1  | 5306 9.5 195036.3 -0945.2  | 5396 9.7 200554.1 -0933.4  | 5486 9.6 202353.0 -0951.7  |
| 5217 10.1 193519.4 -0935.6 | 5307 9.5 195100.6 -0906.7  | 5397 9.8 200611.2 -0941.0  | 5487 9.8 202403.5 -0903.8  |
| 5218 9.5 193512.2 -0918.9  | 5308 9.1 195108.4 -0957.9  | 5398 9.4 200641.2 -0941.6  | 5488 9.8 202404.8 -0928.0  |
| 5219 8.7 193540.2 -0924.6  | 5309 9.8 195124.9 -0953.9  | 5399 10.1 200643.1 -0952.0 | 5489 9.5 202419.9 -0936.1  |
| 5220 9.5 193542.0 -0918.6  | 5310 9.8 195136.0 -0951.2  | 5400 9.3 200653.7 -0923.6  | 5490 9.2 202456.7 -0922.8  |
| 5221 9.4 193542.3 -0925.7  | 5311 8.5 195148.8 -0916.5  | 5401 9.3 200654.4 -0947.3  | 5491 9.3 202458.4 -0951.3  |
| 5222 9.7 193551.4 -0921.1  | 5312 10.1 195153.0 -0943.7 | 5402 9.8 200708.8 -0913.9  | 5492 8.3 202509.3 -0930.4  |
| 5223 9.0 193557.8 -0944.6  | 5313 9.5 195202.0 -0938.8  | 5403 9.1 200726.8 -0921.5  | 5493 9.7 202511.5 -0918.0  |
| 5224 9.8 193609.7 -0914.5  | 5314 9.1 195213.4 -0949.6  | 5404 9.0 200732.1 -0927.0  | 5494 10.1 202535.2 -0946.0 |
| 5225 9.5 193612.0 -0902.2  | 5315 8.8 195225.3 -0918.2  | 5405 9.6 200737.3 -0949.8  | 5495 10.1 202551.0 -0920.1 |
| 5226 9.6 193617.7 -0953.5  | 5316 9.2 195225.3 -0903.6  | 5406 9.6 200747.5 -0912.7  | 5496 9.8 202556.9 -0943.3  |
| 5227 9.8 193632.7 -0958.7  | 5317 9.8 195227.0 -0936.4  | 5407 9.4 200803.0 -0958.7  | 5497 9.0 202606.0 -0915.5  |



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 5498 | 9.5 | 202629.1 | -0932.4 | 5588 | 9.3 | 204135.2 | -0947.2 | 5674 | 9.3 | 210325.8 | -0958.0 | 5768 | 9.7 | 212555.3 | -0906.7 |
| 5499 | 9.6 | 202636.0 | -0903.2 | 5589 | 9.1 | 204142.6 | -0959.3 | 5679 | 9.8 | 210330.7 | -0912.3 | 5769 | 9.1 | 212609.4 | -0913.2 |
| 5500 | 9.1 | 202640.5 | -0929.6 | 5590 | 8.5 | 204144.1 | -0910.8 | 5680 | 9.5 | 210335.2 | -0910.3 | 5770 | 8.0 | 212657.9 | -0943.5 |
| 5501 | 8.9 | 202656.3 | -0934.4 | 5591 | 9.3 | 204205.9 | -0922.3 | 5681 | 9.6 | 210335.8 | -0918.6 | 5771 | 9.1 | 212658.5 | -0935.1 |
| 5502 | 9.4 | 202706.4 | -0935.7 | 5592 | 9.5 | 204238.5 | -0940.6 | 5682 | 9.8 | 210340.3 | -0902.7 | 5772 | 9.1 | 212713.0 | -0929.3 |
| 5503 | 9.1 | 202707.0 | -0900.5 | 5593 | 10. | 204344.0 | -0928.4 | 5683 | 9.7 | 210352.8 | -0907.4 | 5773 | 10. | 212727.4 | -0923.0 |
| 5504 | 9.8 | 202713.4 | -0946.1 | 5594 | 9.7 | 204350.1 | -0932.5 | 5684 | 9.8 | 210359.3 | -0932.4 | 5774 | 10. | 212734.8 | -0954.2 |
| 5505 | 9.1 | 202720.5 | -0908.8 | 5595 | 8.9 | 204408.0 | -0935.1 | 5685 | 10. | 210426.3 | -0928.6 | 5775 | 10. | 212747.6 | -0949.0 |
| 5506 | 9.8 | 202721.7 | -0927.9 | 5596 | 9.1 | 204409.6 | -0956.2 | 5686 | 9.8 | 210436.3 | -0950.4 | 5776 | 10. | 212748.0 | -0916.7 |
| 5507 | 8.3 | 202723.5 | -0930.0 | 5597 | 9.1 | 204440.7 | -0924.9 | 5687 | 9.3 | 210438.3 | -0922.7 | 5777 | 9.5 | 212756.4 | -0957.2 |
| 5508 | 9.9 | 202727.9 | -0947.1 | 5598 | 5.1 | 204449.6 | -0931.1 | 5688 | 9.1 | 210441.2 | -0915.5 | 5778 | 10. | 212811.4 | -0947.4 |
| 5509 | 9.1 | 202729.3 | -0952.2 | 5599 | 5.4 | 204510.1 | -0936.8 | 5689 | 9.1 | 210454.3 | -0913.5 | 5779 | 9.1 | 212833.3 | -0944.7 |
| 5510 | 9.7 | 202806.5 | -0947.8 | 5600 | 9.1 | 204516.1 | -0905.0 | 5690 | 10. | 210522.7 | -0912.2 | 5780 | 10. | 212847.4 | -0911.9 |
| 5511 | 9.5 | 202822.0 | -0916.4 | 5601 | 9.3 | 204520.9 | -0935.0 | 5691 | 9.3 | 210542.3 | -0941.5 | 5781 | 9.1 | 212850.9 | -0923.0 |
| 5512 | 8.7 | 202835.5 | -0949.9 | 5602 | 9.4 | 204523.9 | -0946.6 | 5692 | 9.8 | 210628.8 | -0916.0 | 5782 | 8.0 | 212851.3 | -0941.5 |
| 5513 | 9.0 | 202841.4 | -0943.0 | 5603 | 9.3 | 204531.6 | -0915.3 | 5693 | 9.5 | 210640.5 | -0930.6 | 5783 | 9.1 | 212903.4 | -0902.7 |
| 5514 | 9.5 | 202845.5 | -0917.5 | 5604 | 9.9 | 204533.0 | -0927.6 | 5694 | 9.1 | 210649.1 | -0924.5 | 5784 | 9.1 | 212918.5 | -0919.0 |
| 5515 | 9.3 | 202852.3 | -0935.4 | 5605 | 10. | 204536.2 | -0910.9 | 5695 | 9.4 | 210730.6 | -0933.0 | 5785 | 9.8 | 212922.7 | -0936.9 |
| 5516 | 8.7 | 202857.0 | -0941.2 | 5606 | 9.7 | 204604.5 | -0907.4 | 5696 | 8.7 | 210744.3 | -0953.0 | 5786 | 9.4 | 213001.4 | -0905.3 |
| 5517 | 9.7 | 202907.2 | -0932.2 | 5607 | 9.1 | 204627.7 | -0959.1 | 5697 | 9.8 | 210800.4 | -0911.8 | 5787 | 9.8 | 213006.9 | -0956.4 |
| 5518 | 9.0 | 202912.4 | -0915.9 | 5608 | 8.5 | 204634.3 | -0903.3 | 5698 | 7.2 | 210801.9 | -0942.8 | 5788 | 8.5 | 213011.0 | -0920.8 |
| 5519 | 10. | 202942.5 | -0905.8 | 5609 | 9.3 | 204635.7 | -0922.4 | 5699 | 8.0 | 210807.5 | -0959.3 | 5789 | 9.6 | 213016.7 | -0908.8 |
| 5520 | 9.8 | 202949.4 | -0920.4 | 5610 | 9.5 | 204652.0 | -0916.9 | 5700 | 7.0 | 210830.8 | -0948.8 | 5790 | 9.1 | 213017.0 | -0914.7 |
| 5521 | 9.8 | 202949.7 | -0939.6 | 5611 | 7.3 | 204657.9 | -0925.7 | 5701 | 8.1 | 210842.9 | -0945.4 | 5791 | 9.8 | 213024.5 | -0907.8 |
| 5522 | 9.5 | 202955.1 | -0955.3 | 5612 | 9.6 | 204703.9 | -0903.1 | 5702 | 9.0 | 210859.3 | -0955.8 | 5792 | 8.5 | 213037.4 | -0954.0 |
| 5523 | 9.5 | 202955.3 | -0929.6 | 5613 | 9.5 | 204714.8 | -0932.7 | 5703 | 9.5 | 210906.9 | -0946.7 | 5793 | 10. | 213054.3 | -0950.6 |
| 5524 | 9.3 | 203002.7 | -0902.1 | 5614 | 10. | 204724.9 | -0943.1 | 5704 | 9.3 | 210931.0 | -0908.3 | 5794 | 9.9 | 213056.0 | -0920.5 |
| 5525 | 8.4 | 203008.7 | -0902.1 | 5615 | 9.0 | 204746.0 | -0914.7 | 5705 | 9.5 | 210934.3 | -0931.4 | 5795 | 9.4 | 213056.9 | -0946.0 |
| 5526 | 9.3 | 203009.4 | -0911.6 | 5616 | 9.8 | 204826.0 | -0915.9 | 5706 | 9.3 | 210955.3 | -0927.6 | 5796 | 9.8 | 213058.4 | -0915.0 |
| 5527 | 9.4 | 203010.1 | -0918.6 | 5617 | 9.1 | 204918.7 | -0921.8 | 5707 | 9.0 | 211057.5 | -0902.5 | 5797 | 9.0 | 213109.4 | -0944.6 |
| 5528 | 9.2 | 203023.0 | -0941.8 | 5618 | 9.5 | 204923.7 | -0902.2 | 5708 | 9.8 | 211108.4 | -0951.2 | 5798 | 8.8 | 213111.4 | -0902.2 |
| 5529 | 9.7 | 203045.1 | -0902.3 | 5619 | 9.8 | 204924.7 | -0941.4 | 5709 | 9.0 | 211122.9 | -0946.8 | 5799 | 9.6 | 213123.8 | -0931.3 |
| 5530 | 9.7 | 203055.1 | -0918.1 | 5620 | 10. | 204928.7 | -0941.4 | 5710 | 9.9 | 211124.4 | -0937.8 | 5800 | 9.8 | 213142.5 | -0951.2 |
| 5531 | 9.7 | 203101.1 | -0907.2 | 5621 | 9.9 | 204949.7 | -0923.8 | 5711 | 9.3 | 211157.8 | -0923.2 | 5801 | 9.8 | 213143.7 | -0934.0 |
| 5532 | 9.0 | 203114.0 | -0914.7 | 5622 | 9.3 | 204959.5 | -0946.5 | 5712 | 9.4 | 211221.3 | -0933.4 | 5802 | 8.8 | 213153.5 | -0943.7 |
| 5533 | 10. | 203121.4 | -0953.7 | 5623 | 9.5 | 204959.7 | -0900.2 | 5713 | 9.9 | 211223.6 | -0956.2 | 5803 | 9.7 | 213204.4 | -0926.0 |
| 5534 | 9.2 | 203144.6 | -0933.7 | 5624 | 9.9 | 205012.2 | -0901.2 | 5714 | 9.7 | 211237.0 | -0933.4 | 5804 | 9.3 | 213212.0 | -0920.6 |
| 5535 | 9.5 | 203157.9 | -0916.1 | 5625 | 9.5 | 205016.7 | -0912.7 | 5715 | 8.0 | 211303.5 | -0945.7 | 5805 | 9.1 | 213214.9 | -0953.9 |
| 5536 | 9.9 | 203232.0 | -0946.8 | 5626 | 9.7 | 205040.1 | -0927.3 | 5716 | 9.0 | 211307.7 | -0939.1 | 5806 | 10. | 213233.6 | -0956.5 |
| 5537 | 8.5 | 203241.3 | -0954.9 | 5627 | 9.0 | 205045.5 | -0923.7 | 5717 | 9.6 | 211308.0 | -0904.5 | 5807 | 10. | 213234.3 | -0946.6 |
| 5538 | 10. | 203253.5 | -0930.6 | 5628 | 9.5 | 205049.7 | -0941.8 | 5718 | 9.5 | 211336.0 | -0909.5 | 5808 | 10. | 213311.5 | -0959.3 |
| 5539 | 10. | 203255.5 | -0908.0 | 5629 | 10. | 205053.2 | -0928.5 | 5719 | 9.9 | 211339.1 | -0930.2 | 5809 | 8.0 | 213314.0 | -0947.7 |
| 5540 | 8.5 | 203305.2 | -0909.1 | 5630 | 9.2 | 205100.8 | -0936.9 | 5720 | 9.8 | 211348.5 | -0909.0 | 5810 | 10. | 213316.4 | -0902.1 |
| 5541 | 9.8 | 203317.0 | -0904.0 | 5631 | 9.0 | 205101.4 | -0954.4 | 5721 | 9.6 | 211350.5 | -0914.4 | 5811 | 9.7 | 213353.4 | -0917.3 |
| 5542 | 9.3 | 203320.4 | -0921.7 | 5632 | 9.0 | 205104.6 | -0952.2 | 5722 | 9.3 | 211355.0 | -0947.3 | 5812 | 8.5 | 213428.0 | -0925.2 |
| 5543 | 9.3 | 203329.0 | -0910.9 | 5633 | 9.6 | 205106.0 | -0943.5 | 5723 | 9.6 | 211356.0 | -0922.9 | 5813 | 9.6 | 213429.9 | -0902.7 |
| 5544 | 9.9 | 203331.1 | -0942.2 | 5634 | 9.7 | 205106.3 | -0922.3 | 5724 | 7.0 | 211411.9 | -0956.2 | 5814 | 5.5 | 213441.4 | -0917.7 |
| 5545 | 9.4 | 203341.2 | -0933.5 | 5635 | 9.2 | 205107.6 | -0955.1 | 5725 | 9.7 | 211419.7 | -0924.9 | 5815 | 8.2 | 213445.5 | -0907.4 |
| 5546 | 8.8 | 203344.5 | -0919.0 | 5636 | 9.0 | 205133.5 | -0926.4 | 5726 | 9.8 | 211447.0 | -0911.7 | 5816 | 9.2 | 213452.6 | -0901.7 |
| 5547 | 9.2 | 203403.0 | -0900.4 | 5637 | 9.3 | 205144.1 | -0924.9 | 5727 | 9.5 | 211452.4 | -0932.2 | 5817 | 9.8 | 213459.4 | -0931.8 |
| 5548 | 10. | 203403.1 | -0947.1 | 5638 | 9.5 | 205144.5 | -0913.1 | 5728 | 6.5 | 211509.9 | -0955.8 | 5818 | 9.8 | 213505.0 | -0937.4 |
| 5549 | 9.7 | 203405.0 | -0903.3 | 5639 | 10. | 205200.3 | -0945.9 | 5729 | 9.6 | 211517.5 | -0951.6 | 5819 | 9.1 | 213506.0 | -0903.7 |
| 5550 | 8.0 | 203405.5 | -0916.9 | 5640 | 9.5 | 205221.8 | -0915.4 | 5730 | 9.5 | 211533.4 | -0953.2 | 5820 | 8.5 | 213518.0 | -0959.2 |
| 5551 | 10. | 203415.0 | -0921.4 | 5641 | 9.6 | 205311.8 | -0941.9 | 5731 | 9.5 | 211607.1 | -0920.3 | 5821 | 9.8 | 213519.0 | -0949.4 |
| 5552 | 9.3 | 203437.5 | -0909.3 | 5642 | 9.5 | 205351.2 | -0953.0 | 5732 | 9.6 | 211615.5 | -0944.5 | 5822 | 10. | 213543.4 | -0949.3 |
| 5553 | 9.6 | 203445.4 | -0919.2 | 5643 | 10. | 205413.6 | -0954.2 | 5733 | 9.5 | 211618.7 | -0924.9 | 5823 | 9.8 | 213553.5 | -0910.8 |
| 5554 | 9.7 | 203456.5 | -0919.2 | 5644 | 9.6 | 205527.6 | -0927.7 | 5734 | 9.5 | 211620.3 | -0911.4 | 5824 | 9.5 | 213556.6 | -0938.2 |
| 5555 | 9.5 | 203459.6 | -0941.5 | 5645 | 9.1 | 205547.8 | -0909.2 | 5735 | 10. | 211627.5 | -0944.6 | 5825 | 9.5 | 213603.1 | -0907.0 |
| 5556 | 9.9 | 203506.9 | -0933.5 | 5646 | 10. | 205549.7 | -0937.5 | 5736 | 9.5 | 211653.6 | -0909.4 | 5826 | 9.0 | 213703.5 | -0942.7 |
| 5557 | 9.8 | 203534.1 | -0938.9 | 5647 | 9.5 | 205613.1 | -0916.0 | 5737 | 9.5 | 211657.0 | -0940.2 | 5827 | 8.0 | 213711.6 | -0942.0 |
| 5558 | 10. | 203602.3 | -0921.7 | 5648 | 9.0 | 205641.7 | -0950.5 | 5738 | 9.2 | 211659.6 | -0916.7 | 5828 | 10. | 213712.0 | -0912.3 |
| 5559 | 9.8 | 203616.2 | -0915.0 | 5649 | 9.9 | 205642.3 | -0908.3 | 5739 | 9.9 | 211711.1 | -0920.4 | 5829 | 5.5 | 213716.1 | -0948.0 |
| 5560 | 7.8 | 203625.7 | -0934.1 | 5650 | 8.3 | 205657.1 | -0920.9 | 5740 | 8.8 | 211752.1 | -0911.0 | 5830 | 9.8 | 213729.0 | -0956.3 |
| 5561 | 8.6 | 203640.9 | -0929.6 | 5651 | 9.3 | 205706.6 | -0905.4 | 5741 | 9.4 | 211754.0 | -0952.7 | 5831 | 9.5 | 213748.1 | -0905.1 |
| 5562 | 9.2 | 203645.5 | -0934.8 | 5652 | 8.6 | 205803.0 | -0924.7 | 5742 | 9.8 | 211755.1 | -0902.6 | 5832 | 9.6 | 213759.1 | -0949.2 |
| 5563 | 9.0 | 203655.6 | -0947.8 | 5653 | 9.3 | 205827.2 | -0954.4 | 5743 | 9.8 | 211817.6 | -0905.8 | 5833 | 6.7 | 213822.0 | -0956.5 |
| 5564 | 9.7 | 203702.8 | -0905.2 | 5654 | 9.5 | 205827.7 | -0943.5 | 5744 | 9.5 | 211823.0 | -0937.0 | 5834 | 10. | 213835.0 | -0926.7 |
| 5565 | 9.6 | 203707.7 | -0913.1 | 5655 | 9.8 | 205859.3 | -0920.4 | 5745 | 9.5 | 211840.1 | -0920.0 | 5835 | 10. | 213835.4 | -0909.1 |
| 5566 | 9.8 | 203724.6 | -0918.7 | 5656 | 9.5 | 205902.2 | -0938.4 | 5746 | 9.8 | 211903.8 | -0901.5 | 5836 | 9.5 | 213841.5 | -0930.4 |
| 5567 | 8.5 | 203736.0 | -0939.4 | 5657 | 9.4 | 205903.5 | -0924.2 | 5747 | 7.5 | 211930.8 | -0924.9 | 5837 | 9.4 | 213850.5 | -0931.9 |
| 5568 | 9.8 | 203738.1 | -0927.9 | 5658 | 9.3 | 205925.2 | -0921.4 | 5748 | 8.5 | 211933.0 | -0939.6 | 5838 | 8.5 | 213858.6 | -0906.2 |
| 5569 | 9.8 | 203738.1 | -0920.8 | 5659 | 10. | 205939.9 | -0959.9 | 5749 | 9.5 | 211941.4 | -0927.2 | 5839 | 8.5 | 213868.6 | -0908.4 |
| 5570 | 9.5 | 203744.7 | -0924.2 | 5660 | 9.8 | 205948.7 | -0930.6 | 5750 | 9.9 | 211955.6 | -0925.0 |      |     |          |         |



-09 5858 21h44m

5858 9.8 214404.7 -0943.1  
5859 9.8 214406.0 -0932.2  
5860 9.8 214424.2 -0923.0  
5861 9.8 214426.6 -0906.8  
5862 9.3 214433.0 -0936.5  
5863 9.7 214518.3 -0930.5  
5864 9.5 214527.0 -0910.8  
5865 9.3 214528.5 -0909.0  
5866 8.8 214556.3 -0905.0  
5867 9.8 214620.6 -0936.0

5868 9.8 214627.8 -0952.0  
5869 9.0 214636.0 -0912.8  
5870 9.3 214729.0 -0920.5  
5871 9.1 214754.7 -0925.3  
5872 9.8 214801.6 -0953.0  
5873 9.5 214855.9 -0902.8  
5874 9.5 214917.8 -0946.1  
5875 9.1 214951.3 -0939.3  
5876 7.5 214957.8 -0914.7  
5877 8.7 214959.8 -0916.5

5878 9.0 215053.5 -0900.9  
5879 8.9 215059.8 -0909.8  
5880 9.3 215118.9 -0945.9  
5881 8.7 215132.4 -0939.4  
5882 9.8 215212.8 -0921.7  
5883 9.1 215220.9 -0952.3  
5884 8.5 215253.8 -0913.2  
5885 9.5 215305.3 -0959.5  
5886 9.7 215312.4 -0926.7  
5887 9.3 215317.7 -0934.5

5888 9.4 215319.3 -0949.0  
5889 9.6 215327.6 -0932.9  
5890 9.5 215340.0 -0928.8  
5891 10. 215344.0 -0900.2  
5892 10. 215349.4 -0936.2  
5893 9.0 215355.4 -0934.6  
5894 9.8 215400.8 -0923.5  
5895 9.7 215408.6 -0934.1  
5896 8.5 215424.9 -0958.5  
5897 9.4 215448.9 -0921.9

5898 9.5 215449.7 -0952.0  
5899 9.0 215501.2 -0934.9  
5900 9.5 215514.4 -0906.3  
5901 7.8 215520.4 -0911.9  
5902 10. 215522.9 -0938.1  
5903 9.1 215526.4 -0948.6  
5904 9.6 215541.4 -0911.5  
5905 9.2 215618.2 -0936.9  
5906 9.5 215622.2 -0933.9  
5907 9.8 215631.4 -0919.6

5908 7.3 215650.5 -0925.3  
5909 9.9 215725.2 -0925.8  
5910 9.2 215811.4 -0911.6  
5911 9.5 215812.2 -0940.9  
5912 9.7 215821.5 -0926.5  
5913 9.4 215834.0 -0945.1  
5914 9.5 215838.9 -0959.9  
5915 9.5 215848.7 -0926.0  
5916 9.3 215908.3 -0934.8  
5917 8.9 215909.5 -0936.7

5918 9.1 215914.0 -0929.9  
5919 9.5 215929.2 -0953.4  
5920 8.5 215936.5 -0953.4  
5921 9.7 215951.0 -0926.8  
5922 9.8 220026.0 -0952.6  
5923 9.4 220049.4 -0904.7  
5924 9.5 220118.3 -0909.6  
5925 10. 220124.8 -0950.0  
5926 9.5 220147.2 -0923.3  
5927 8.5 220149.9 -0930.5

5928 9.2 220228.0 -0900.2  
5929 9. 220340.5 -0908.8  
5930 9.2 220354.6 -0915.7  
5931 9.9 220359.5 -0904.9  
5932 9.7 220404.6 -0909.0  
5933 9.9 220410.9 -0955.7  
5934 9.0 220533.1 -0950.9  
5935 10. 220542.3 -0919.2  
5936 9.7 220555.0 -0921.0  
5937 9.5 220604.6 -0955.4

5938 10. 220616.9 -0958.5  
5939 10. 220635.0 -0906.7  
5940 9.5 220706.6 -0934.3  
5941 9.5 220715.1 -0959.8  
5942 8.3 220720.1 -0941.5  
5943 8.3 220754.9 -0906.8  
5944 9.5 220831.1 -0907.0  
5945 9.4 220832.3 -0905.4  
5946 9.5 220838.2 -0941.0  
5947 9.3 220858.6 -0905.6

5948 6.2 220912.6 -0945.3  
5949 9.5 220924.7 -0915.0  
5950 9.8 220939.7 -0921.1  
5951 9.8 220958.1 -0907.3  
5952 9.5 221041.6 -0905.3  
5953 9.0 221109.3 -0956.2  
5954 10. 221111.9 -0938.1  
5955 10. 221122.9 -0918.5  
5956 10. 221129.4 -0921.9  
5957 9.8 221144.2 -0939.5

5958 8.7 221147.1 -0913.5  
5959 9.2 221207.4 -0933.9  
5960 9.8 221217.2 -0908.1  
5961 10. 221243.9 -0904.2  
5962 9.0 221254.5 -0946.4  
5963 7.2 221311.3 -0929.7  
5964 10. 221320.5 -0942.5  
5965 9.8 221402.4 -0936.9  
5966 9.0 221422.6 -0928.8  
5967 9.8 221434.2 -0921.3

5968 10. 221523.0 -0933.8  
5969 9.8 221537.5 -0941.1  
5970 9.6 221639.4 -0925.6  
5971 10. 221708.1 -0942.0  
5972 10. 221739.6 -0944.5  
5973 9.8 221756.8 -0942.5  
5974 9.3 221757.3 -0913.9  
5975 9.8 221758.3 -0920.6  
5976 8.5 221814.6 -0941.5  
5977 10. 221829.9 -0921.0

5978 7.8 221908.8 -0914.4  
5979 10. 221923.6 -0952.0  
5980 9.6 221928.1 -0936.3  
5981 9.5 221934.3 -0908.3  
5982 8.7 222016.0 -0930.4  
5983 8.7 222037.9 -0928.2  
5984 9.5 222053.6 -0930.1  
5985 9.2 222135.2 -0947.6  
5986 10. 222209.6 -0929.4  
5987 9.1 222211.1 -0945.5

5988 8.5 222218.7 -0909.1  
5989 9.4 222250.4 -0926.4  
5990 9.4 222259.2 -0934.7  
5991 10. 222318.6 -0935.1  
5992 9.8 222320.5 -0958.0  
5993 10. 222329.7 -0908.4  
5994 9.4 222411.7 -0906.3  
5995 9.6 222425.6 -0934.5  
5996 8.6 222449.2 -0901.7  
5997 10. 222451.7 -0909.7

5998 9.7 222500.7 -0946.2  
5999 10. 222515.0 -0920.0  
6000 9.0 222529.6 -0957.3  
6001 8.5 222540.7 -0948.1  
6002 10. 222550.4 -0914.3  
6003 10. 222551.2 -0946.4  
6004 9.5 222611.3 -0907.0  
6005 9.6 222619.8 -0952.0  
6006 9.7 222630.0 -0924.9  
6007 9.0 222654.7 -0953.1

6008 9.8 222700.8 -0945.9  
6009 8.6 222704.7 -0921.6  
6010 9.1 222717.3 -0938.5  
6011 9.2 222721.7 -0959.5  
6012 8.7 222734.2 -0908.8  
6013 9.0 222820.8 -0936.5  
6014 10. 222828.7 -0908.5  
6015 9.0 222906.3 -0941.7  
6016 8.8 222909.8 -0919.8  
6017 8.9 222947.3 -0916.5

6018 9.5 222948.8 -0903.5  
6019 9.8 223023.8 -0937.0  
6020 10. 223105.7 -0954.7  
6021 8.6 223120.8 -0926.1  
6022 10. 223128.4 -0942.0  
6023 10. 223153.7 -0924.6  
6024 9.7 223210.8 -0919.9  
6025 10. 223211.9 -0900.3  
6026 10. 223216.0 -0948.9  
6027 9.4 223239.4 -0942.8

6028 10. 223255.4 -0934.7  
6029 10. 223300.4 -0916.1  
6030 10. 223300.4 -0942.0  
6031 9.6 223337.8 -0934.7  
6032 10. 223353.9 -0917.9  
6033 9.5 223415.8 -0901.4  
6034 10. 223428.9 -0902.9  
6035 9.0 223435.9 -0912.0  
6036 9.8 223437.9 -0903.8  
6037 8.5 223523.4 -0954.4

6038 7.0 223528.9 -0904.0  
6039 8.9 223550.9 -0910.5  
6040 10. 223558.9 -0947.7  
6041 9.0 223621.0 -0912.9  
6042 9.6 223632.0 -0937.7  
6043 9.0 223637.0 -0946.7  
6044 9.2 223639.0 -0949.4  
6045 9.4 223652.9 -0916.0  
6046 9.8 223701.5 -0947.0  
6047 9.5 223712.9 -0954.4

6048 9.4 223741.5 -0944.8  
6049 9.8 223747.4 -0900.1  
6050 9.5 223805.9 -0919.7  
6051 9.2 223816.5 -0900.7  
6052 10. 223843.9 -0903.2  
6053 10. 223846.0 -0911.3  
6054 8.2 223846.0 -0909.0  
6055 9.5 223849.4 -0906.0  
6056 9.5 223926.5 -0939.6  
6057 9.3 224001.0 -0906.8

6058 9.5 224021.7 -0934.2  
6059 9.1 224028.9 -0908.3  
6060 9.5 224032.0 -0926.9  
6061 9.5 224044.0 -0921.2  
6062 9.5 224051.3 -0949.4  
6063 9.1 224120.1 -0942.3  
6064 9.2 224121.1 -0937.6  
6065 9.8 224144.6 -0902.5  
6066 10. 224206.0 -0911.2  
6067 9.9 224206.1 -0949.5

6068 9.7 224209.4 -0925.7  
6069 10. 224248.5 -0908.3  
6070 10. 224256.5 -0909.6  
6071 10. 224314.1 -0949.2  
6072 10. 224338.6 -0914.6  
6073 9.0 224341.5 -0904.0  
6074 9.2 224344.0 -0925.8  
6075 9.1 224410.6 -0919.2  
6076 9.8 224525.0 -0909.9  
6077 9.3 224548.2 -0952.0

6078 9.5 224552.7 -0941.8  
6079 9.5 224632.6 -0958.5  
6080 9.7 224633.3 -0911.8  
6081 9.4 224654.7 -0907.3  
6082 10. 224708.2 -0933.4  
6083 9.5 224715.1 -0902.4  
6084 9.9 224745.2 -0949.5  
6085 9.2 224804.8 -0933.8  
6086 10. 224814.2 -0927.5  
6087 10. 224824.1 -0923.4

6088 9.7 224849.8 -0931.3  
6089 9.7 224858.2 -0929.5  
6090 9.2 224906.7 -0942.4  
6091 9.8 224950.3 -0933.7  
6092 9.8 225045.3 -0946.2  
6093 8.8 225101.7 -0913.6  
6094 9.3 225106.6 -0909.3  
6095 9.4 225121.3 -0952.1  
6096 9.4 225138.2 -0916.2  
6097 9.1 225145.5 -0920.4

6098 9.5 225158.4 -0919.8  
6099 9.8 225216.7 -0955.5  
6100 7.0 225244.7 -0939.3  
6101 10. 225250.5 -0930.0  
6102 10. 225351.4 -0920.5  
6103 9.8 225400.7 -0913.6  
6104 9.5 225414.6 -0936.3  
6105 10. 225424.0 -0947.4  
6106 9.7 225431.1 -0940.7  
6107 9.4 225444.9 -0928.2

6108 9.6 225500.4 -0925.4  
6109 9.3 225529.2 -0935.1  
6110 9.4 225620.3 -0911.8  
6111 9.4 225708.8 -0919.5  
6112 9.8 225711.5 -0921.6  
6113 9.8 225732.8 -0940.3  
6114 9.6 225737.6 -0940.7  
6115 10. 225746.2 -0921.3  
6116 8.9 225817.6 -0940.2  
6117 8.9 225852.5 -0931.8

6118 8.3 225901.5 -0925.2  
6119 10. 225935.4 -0925.0  
6120 9.6 225937.0 -0918.3  
6121 10. 225940.6 -0921.1  
6122 9.5 225942.3 -0905.8  
6123 8.0 225943.2 -0935.7  
6124 9.2 225956.1 -0926.1  
6125 9.8 230035.3 -0903.2  
6126 9.9 230042.8 -0903.9  
6127 9.8 230050.0 -0925.1

-09 6217 23h27m

6128 8.5 230053.9 -0947.5  
6129 9.4 230054.4 -0955.6  
6130 9.0 230109.4 -0908.1  
6131 8.9 230116.8 -0935.4  
6132 10. 230119.7 -0922.1  
6133 8.9 230145.2 -0958.5  
6134 8.9 230156.6 -0936.9  
6135 9.9 230237.3 -0900.8  
6136 10. 230254.7 -0947.5  
6137 10. 230313.1 -0908.4

6138 8.7 230321.2 -0924.6  
6139 8.9 230337.3 -0959.8  
6140 9.9 230347.9 -0907.0  
6141 10. 230401.5 -0903.3  
6142 8.3 230422.2 -0948.4  
6143 9.6 230438.6 -0933.8  
6144 10. 230448.0 -0945.2  
6145 9.0 230455.4 -0904.0  
6146 8.1 230555.7 -0942.0  
6147 8.8 230610.1 -0934.8

6148 10. 230624.0 -0924.3  
6149 8.2 230630.2 -0943.0  
6150 9.0 230630.5 -0943.4  
6151 8.5 230635.0 -0910.8  
6152 9.1 230639.2 -0943.9  
6153 9.3 230713.1 -0917.7  
6154 9.2 230751.3 -0934.4  
6155 9.4 230814.7 -0951.8  
6156 5.0 230818.3 -0952.5  
6157 9.5 230850.4 -0944.5

6158 9.7 230900.2 -0925.3  
6159 8.9 231012.6 -0908.4  
6160 5.5 231021.7 -0958.2  
6161 9.3 231045.1 -0910.5  
6162 10. 231122.6 -0905.2  
6163 10. 231125.1 -0903.5  
6164 9.2 231129.4 -0951.6  
6165 9.8 231139.1 -0929.7  
6166 9.4 231149.3 -0940.0  
6167 9.4 231151.0 -0905.3

6168 9.9 231202.4 -0933.7  
6169 9.4 231300.6 -0901.5  
6170 9.1 231303.7 -0920.6  
6171 8.0 231307.9 -0946.3  
6172 9.1 231307.2 -0917.3  
6173 7.5 231330.1 -0928.1  
6174 9.7 231355.4 -0941.3  
6175 9.8 231401.4 -0938.8  
6176 10. 231428.4 -0933.8  
6177 9.4 231434.2 -0902.3

6178 9.8 231510.9 -0932.0  
6179 9.2 231546.8 -0915.9  
6180 9.3 231547.5 -0918.4  
6181 8.5 231554.0 -0940.9  
6182 10. 231610.4 -0959.6  
6183 7.2 231613.5 -0915.1  
6184 8.8 231707.7 -0941.9  
6185 10. 231748.7 -0903.9  
6186 9.2 231807.0 -0921.4  
6187 9.5 231810.8 -0919.2

6188 10. 231822.7 -0904.3  
6189 9.5 231826.1 -0922.3  
6190 9.9 231901.6 -0924.0  
6191 10. 231904.5 -0908.4  
6192 9.3 231916.4 -0937.3  
6193 9.3 231934.0 -0947.5  
6194 10. 231945.7 -0904.3  
6195 9.8 232002.7 -0904.4  
6196 9.5 232010.2 -0933.2  
6197 8.3 232103.9 -0919.3

6198 9.3 232126.1 -0957.5  
6199 9.5 232130.7 -0906.6  
6200 10. 232154.0 -0918.5  
6201 9.4 232207.0 -0948.7  
6202 8.7 232208.7 -0928.0  
6203 9.4 232239.1 -0944.0  
6204 9.8 232242.0 -0918.0  
6205 9.3 232318.6 -0922.7  
6206 8.5 232416.2 -0907.5  
6207 9.9 232419.3 -0904.8

6208 9.2 232430.8 -0908.2  
6209 9.3 232438.5 -0944.3  
6210 7.8 232526.2 -0957.6  
6211 10. 232527.2 -0902.8  
6212 9.3 232553.9 -0912.2  
6213 9.4 232603.9 -0909.6  
6214 9.8 232625.3 -0907.5  
6215 9.4 232731.5 -0900.9  
6216 9.0 232733.6 -0910.6  
6217 9.2 232758.2 -0947.4



|                            |                           |                         |                         |
|----------------------------|---------------------------|-------------------------|-------------------------|
| 6218 10. 232807.4 -0957.6  | 6308 9.4 235447.8 -0923.7 | 72 9.0 01859.0 -1036.8  | 162 9.7 03954.2 -1046.4 |
| 6219 9.7 232819.3 -0927.9  | 6309 8.0 235451.9 -0959.3 | 73 9.5 01909.9 -1033.4  | 163 9.8 04003.5 -1026.3 |
| 6220 7.4 232831.6 -0934.2  | 6310 8.5 235513.7 -0917.5 | 74 9.5 01913.1 -1044.1  | 164 7.8 04037.3 -1008.6 |
| 6221 9.0 232854.0 -0909.1  | 6311 9.8 235534.5 -0902.6 | 75 9.6 01944.6 -1015.9  | 165 9.9 04053.3 -1020.8 |
| 6222 9.1 232926.4 -0925.1  | 6312 10. 235636.6 -0907.7 | 76 7.2 01945.5 -1040.8  | 166 9.4 04158.9 -1018.4 |
| 6223 10. 233009.2 -0920.3  | 6313 9.5 235650.0 -0906.5 | 77 9.9 01951.7 -1034.7  | 167 9.6 04226.5 -1027.2 |
| 6224 7.2 233042.4 -0925.8  | 6314 9.5 235711.0 -0918.6 | 78 8.8 02007.7 -1010.1  | 168 9.9 04237.8 -1017.4 |
| 6225 9.2 233128.3 -0944.5  | 6315 9.5 235714.4 -0943.2 | 79 9.4 02044.8 -1023.3  | 169 8.9 04257.6 -1041.9 |
| 6226 9.4 233159.2 -0937.1  | 6316 9.5 235757.5 -0947.7 | 80 9.3 02107.0 -1001.6  | 170 9.5 04301.6 -1013.5 |
| 6227 9.2 233210.3 -0940.2  | 6317 9.1 235822.2 -0950.4 | 81 8.9 02114.9 -1021.7  | 171 9.8 04341.7 -1040.4 |
| 6228 9.1 233222.6 -0922.5  | 6318 10. 235822.2 -0949.1 | 82 8.3 02117.1 -1012.6  | 172 9.4 04347.2 -1037.7 |
| 6229 10. 233223.8 -0920.7  | 6319 8.8 235825.8 -0921.0 | 83 9.3 02150.6 -1034.5  | 173 6.5 04402.0 -1011.6 |
| 6230 10. 233231.9 -0930.8  | 6320 9.1 235833.9 -0938.8 | 84 10. 02151.4 -1042.7  | 174 9.2 04415.3 -1004.4 |
| 6231 9.8 233247.7 -0931.6  | 6321 9.5 235856.6 -0903.1 | 85 8.7 02247.3 -1002.2  | 175 9.4 04438.8 -1042.0 |
| 6232 8.9 233354.6 -0926.2  | 6322 9.8 235923.2 -0938.3 | 86 8.9 02309.5 -1028.8  | 176 9.6 04444.4 -1010.1 |
| 6233 8.3 233408.3 -0937.6  | 6323 9.0 235927.2 -0912.0 | 87 9.1 02315.7 -1011.9  | 177 9.5 04447.8 -1053.5 |
| 6234 9.1 233423.6 -0909.6  | 6324 10. 235928.3 -0947.3 | 88 7.7 02320.1 -1012.6  | 178 9.7 04454.7 -1037.7 |
| 6235 9.4 233434.8 -0937.5  | 6325 9.1 235934.6 -0935.3 | 89 7.2 02338.3 -1052.7  | 179 9.8 04533.0 -1016.0 |
| 6236 10. 233437.6 -0904.9  | 6326 10. 235955.2 -0935.6 | 90 8.6 02343.8 -1052.7  | 180 8.7 04542.7 -1004.0 |
| 6237 8.3 233455.3 -0937.8  | 6327 10. 00000.6 -1015.4  | 91 9.4 02409.2 -1041.8  | 181 8.9 04549.1 -1051.7 |
| 6238 9.2 233533.2 -0925.5  | 2 10. 00041.4 -1021.1     | 92 10. 02411.7 -1046.5  | 182 9.7 04611.8 -1036.5 |
| 6239 9.1 233536.4 -0946.0  | 3 9.5 00051.0 -1010.0     | 93 6.0 02429.8 -1011.6  | 183 8.6 04642.7 -1006.5 |
| 6240 9.7 233539.5 -0925.2  | 4 9.3 00108.5 -1038.7     | 94 9.4 02441.8 -1049.4  | 184 10. 04657.2 -1059.7 |
| 6241 9.5 233542.2 -0921.0  | 5 9.3 00129.7 -1050.3     | 95 8.9 02442.6 -1012.8  | 185 10. 04705.5 -1011.9 |
| 6242 8.5 233556.8 -0950.7  | 6 9.2 00132.7 -1055.4     | 96 9.5 02451.9 -1012.4  | 186 9.7 04714.6 -1002.4 |
| 6243 9.5 233602.9 -0947.6  | 7 9.6 00149.8 -1057.5     | 97 9.4 02532.6 -1005.6  | 187 9.4 04726.8 -1033.6 |
| 6244 8.8 233634.1 -0904.7  | 8 9.8 00152.8 -1052.2     | 98 9.5 02545.1 -1027.1  | 188 9.8 04746.2 -1030.3 |
| 6245 9.8 233642.0 -0903.8  | 9 8.0 00205.5 -1059.6     | 99 8.3 02547.0 -1047.3  | 189 9.5 04829.6 -1020.0 |
| 6246 9.5 233644.9 -0951.7  | 10 9.5 00245.2 -1025.6    | 100 9.3 02606.3 -1025.5 | 190 9.0 04845.2 -1025.1 |
| 6247 8.2 233710.7 -0939.6  | 11 8.5 00304.2 -1006.3    | 101 9.6 02609.2 -1016.9 | 191 8.9 04858.0 -1036.1 |
| 6248 7.3 233714.2 -0916.4  | 12 9.8 00304.8 -1006.3    | 102 9.5 02625.9 -1055.8 | 192 9.1 04903.7 -1028.8 |
| 6249 9.7 233726.3 -0913.9  | 13 9.4 00342.0 -1027.0    | 103 9.8 02647.0 -1025.5 | 193 9.7 04922.1 -1013.0 |
| 6250 9.7 233742.5 -0956.6  | 14 9.3 00405.7 -1000.9    | 104 10. 02729.1 -1027.3 | 194 10. 04949.9 -1012.0 |
| 6251 9.4 233758.0 -0900.8  | 15 9.6 00414.5 -1021.6    | 105 10. 02729.9 -1019.3 | 195 9.3 05008.7 -1017.3 |
| 6252 9.3 233804.6 -0900.1  | 16 8.0 00415.6 -1030.0    | 106 9.8 02756.3 -1036.8 | 196 9.8 05016.6 -1028.9 |
| 6253 9.8 233805.7 -0908.4  | 17 9.9 00438.0 -1049.6    | 107 9.3 02759.7 -1055.4 | 197 9.8 05020.2 -1029.4 |
| 6254 9.7 233823.3 -0924.8  | 18 9.5 00442.5 -1025.5    | 108 9.0 02830.1 -1030.4 | 198 9.5 05033.0 -1004.4 |
| 6255 9.8 233826.2 -0904.7  | 19 9.4 00525.8 -1050.0    | 109 10. 02839.0 -1018.7 | 199 9.0 05042.1 -1036.6 |
| 6256 9.0 233850.1 -0927.6  | 20 10. 00545.6 -1019.6    | 110 8.8 02851.4 -1048.5 | 200 10. 05103.5 -1043.2 |
| 6257 10. 233902.9 -0948.3  | 21 9.8 00605.4 -1031.4    | 111 9.8 02911.0 -1012.5 | 201 10. 05122.5 -1049.0 |
| 6258 7.5 233904.7 -0948.1  | 22 10. 00607.9 -1012.9    | 112 9.8 02924.2 -1024.1 | 202 10. 05132.6 -1048.7 |
| 6259 9.7 233912.6 -0926.0  | 23 9.0 00630.7 -1042.4    | 113 9.5 02939.1 -1012.4 | 203 9.1 05140.9 -1039.5 |
| 6260 7.7 233922.9 -0941.8  | 24 9.6 00631.6 -1059.9    | 114 10. 03009.5 -1053.0 | 204 9.0 05143.1 -1007.4 |
| 6261 9.2 233943.2 -0928.2  | 25 8.6 00631.9 -1033.3    | 115 9.5 03051.4 -1046.3 | 205 9.5 05201.6 -1053.6 |
| 6262 9.5 234037.1 -0927.1  | 26 10. 00635.6 -1000.6    | 116 9.5 03057.3 -1040.1 | 206 9.5 05224.2 -1020.7 |
| 6263 9.9 234056.2 -0903.8  | 27 8.8 00716.0 -1013.0    | 117 9.2 03111.6 -1054.1 | 207 9.7 05234.3 -1053.5 |
| 6264 9.1 234104.0 -0938.3  | 28 9.3 00717.8 -1009.6    | 118 9.8 03123.9 -1040.6 | 208 9.7 05256.9 -1045.5 |
| 6265 9.5 234156.9 -0917.9  | 29 9.0 00718.3 -1044.4    | 119 9.5 03131.6 -1014.9 | 209 7.0 05333.2 -1009.0 |
| 6266 9.5 234202.6 -0900.1  | 30 6.5 00730.1 -1022.5    | 120 9.5 03155.2 -1026.1 | 210 9.7 05354.3 -1040.5 |
| 6267 9.5 234207.0 -0922.6  | 31 9.1 00742.0 -1012.1    | 121 9.5 03210.0 -1017.4 | 211 10. 05406.1 -1026.3 |
| 6268 9.5 234242.1 -0929.9  | 32 10. 00831.4 -1022.9    | 122 10. 03210.5 -1054.9 | 212 8.6 05412.0 -1012.4 |
| 6269 10. 234307.8 -0959.2  | 33 9.5 00834.9 -1048.6    | 123 10. 03219.3 -081.2  | 213 9.8 05420.4 -1042.9 |
| 6270 9.6 234320.9 -0925.4  | 34 8.1 00835.8 -1016.9    | 124 9.8 03220.3 -005.2  | 214 9.2 05425.8 -1042.8 |
| 6271 9.5 234401.3 -0907.5  | 35 9.3 00918.0 -1059.3    | 125 10. 03226.4 -1049.9 | 215 9.5 05425.1 -1033.7 |
| 6272 9.7 234443.7 -0951.9  | 36 10. 00929.2 -1034.7    | 126 9.5 03228.5 -1044.6 | 216 9.5 05441.8 -1039.5 |
| 6273 9.5 234449.2 -0933.1  | 37 9.1 00924.6 -1005.9    | 127 10. 03240.5 -1054.4 | 217 10. 05450.6 -1052.8 |
| 6274 9.5 234507.7 -0957.3  | 38 9.5 00950.3 -1046.1    | 128 9.3 03249.7 -1003.6 | 218 9.5 05515.0 -1051.5 |
| 6275 8.5 234517.8 -0942.4  | 39 9.2 01003.3 -1010.2    | 129 9.0 03302.2 -1000.5 | 219 9.8 05537.5 -1051.8 |
| 6276 8.8 234518.5 -0957.4  | 40 9.8 01013.5 -1016.0    | 130 9.5 03305.4 -1049.5 | 220 8.4 05541.3 -1038.1 |
| 6277 6.2 234522.9 -0948.1  | 41 9.1 01022.1 -1013.3    | 131 10. 03320.1 -1010.0 | 221 10. 05547.4 -1034.0 |
| 6278 9.4 234525.4 -0921.1  | 42 9.8 01035.4 -1048.7    | 132 9.4 03323.9 -1041.1 | 222 9.7 05549.0 -1003.6 |
| 6279 10. 234615.1 -0952.7  | 43 10. 01045.7 -1015.0    | 133 8.6 03334.0 -1045.9 | 223 9.7 05551.3 -1026.9 |
| 6280 9.2 234632.9 -0933.1  | 44 9.8 01046.4 -1003.2    | 134 9.8 03357.6 -1042.4 | 224 9.6 05629.7 -1027.8 |
| 6281 9.9 234658.8 -0944.6  | 45 9.2 01112.3 -1015.4    | 135 9.1 03415.9 -1028.5 | 225 9.7 05645.0 -1022.7 |
| 6282 9.8 234707.0 -0907.2  | 46 9.5 01132.4 -1044.4    | 136 9.0 03441.6 -1027.0 | 226 8.8 05728.5 -1050.1 |
| 6283 9.8 234707.9 -0923.9  | 47 9.1 01142.9 -1045.7    | 137 9.0 03454.4 -1037.7 | 227 9.1 05753.9 -1034.8 |
| 6284 9.1 234739.6 -0921.7  | 48 10. 01211.3 -1009.7    | 138 9.3 03504.4 -1028.4 | 228 9.5 05805.9 -1016.1 |
| 6285 8.8 234740.5 -0914.8  | 49 10. 01212.9 -1050.8    | 139 10. 03520.5 -1028.5 | 229 6.5 05821.5 -1045.5 |
| 6286 8.8 234755.0 -0933.3  | 50 10. 01215.2 -1000.4    | 140 7.0 03531.5 -1043.0 | 230 6.0 05849.4 -1036.9 |
| 6287 8.0 234817.7 -0951.8  | 51 10. 01230.4 -1046.0    | 141 10. 03551.1 -1041.4 | 231 9.1 05904.5 -1041.9 |
| 6288 9.5 234830.6 -0922.5  | 52 9.3 01251.3 -1013.5    | 142 8.5 03601.3 -1006.8 | 232 8.2 05911.3 -1032.1 |
| 6289 10. 234833.1 -0951.7  | 53 9.9 01308.8 -1040.0    | 143 9.6 03605.9 -1058.1 | 233 9.1 05914.2 -1052.0 |
| 6290 9.9 234848.8 -0920.3  | 54 10. 01337.9 -1042.5    | 144 9.1 03611.1 -1047.7 | 234 9.5 05917.9 -1027.4 |
| 6291 9.2 234900.0 -0931.5  | 55 8.7 01347.2 -1002.3    | 145 9.4 03623.7 -1052.8 | 235 9.2 05932.4 -1038.6 |
| 6292 9.6 234907.0 -0934.3  | 56 8.6 01434.5 -1042.7    | 146 10. 03634.4 -1012.8 | 236 9.5 10001.6 -1034.8 |
| 6293 9.5 234924.6 -0932.4  | 57 8.0 01519.7 -1025.5    | 147 9.2 03636.4 -1022.3 | 237 9.4 10024.2 -1022.0 |
| 6294 30.0 235029.0 -0946.1 | 58 7.8 01523.8 -1001.9    | 148 9.1 03640.0 -1014.4 | 238 6.5 10028.9 -1033.6 |
| 6295 9.5 235121.5 -0938.1  | 59 9.2 01525.3 -1027.5    | 149 9.2 03640.3 -1022.9 | 239 9.5 10105.6 -1054.9 |
| 6296 7.8 235141.7 -0917.9  | 60 8.5 01525.8 -1005.0    | 150 9.0 03654.8 -1021.6 | 240 3.5 10118.3 -1056.6 |
| 6297 9.2 235201.9 -0903.6  | 61 9.1 01553.4 -1046.9    | 151 9.0 03733.1 -1042.6 | 241 9.4 10119.7 -1047.7 |
| 6298 10. 235202.8 -0947.8  | 62 9.4 01625.5 -1016.1    | 152 9.8 03739.8 -1048.4 | 242 9.0 10137.9 -1013.7 |
| 6299 9.6 235229.1 -0947.1  | 63 9.8 01631.4 -1034.2    | 153 9.8 03748.8 -1017.8 | 243 8.2 10147.2 -1052.1 |
| 6300 9.0 235241.6 -0900.3  | 64 10. 01636.9 -1000.5    | 154 10. 03806.5 -1038.6 | 244 9.7 10222.7 -1044.5 |
| 6301 8.9 235257.9 -0954.2  | 65 30.0 01641.3 -1008.1   | 155 8.7 03807.9 -1020.4 | 245 9.7 10235.6 -1048.1 |
| 6302 9.5 235318.8 -0950.0  | 66 9.6 01710.1 -1042.3    | 156 10. 03831.5 -1052.9 | 246 9.7 10239.7 -1016.7 |
| 6303 9.8 235330.1 -0915.0  | 67 9.4 01750.0 -1046.0    | 157 9.7 03853.4 -1019.2 | 247 9.0 10306.8 -1027.5 |
| 6304 8.8 235352.9 -0944.1  | 68 9.2 01758.4 -1053.2    | 158 8.9 03900.7 -1015.3 | 248 9.0 10348.6 -1042.5 |
| 6305 9.2 235412.7 -0920.0  | 69 9.4 01809.2 -1053.2    | 159 8.3 03911.9 -1022.1 | 249 9.1 10408.7 -1015.9 |
| 6306 9.1 235415.4 -0959.3  | 70 9.8 01812.4 -1002.5    | 160 9.3 03941.0 -1005.6 | 250 10. 10426.5 -1038.6 |
| 6307 9.0 235446.3 -0947.7  | 71 9.2 01832.3 -1022.0    | 161 8.6 03945.2 -1044.6 | 251 10. 10427.1 -1046.6 |



-10 252 1h04m

252 10. 10448.3 -1001.5  
253 10. 10451.4 -1033.6  
254 10. 10515.0 -1051.3  
255 9.1 10602.5 -1007.6  
256 10. 10605.5 -1044.1  
257 9.3 10608.3 -1012.6  
258 10. 10615.5 -1048.6  
259 8.8 10653.2 -1034.3  
260 7.8 10725.0 -1044.3  
261 9.6 10739.6 -1049.2  
  
262 9.7 10810.5 -1050.5  
263 8.2 10832.3 -1033.3  
264 9.5 10845.3 -1015.7  
265 9.5 10857.5 -1035.1  
266 9.5 10920.9 -1018.1  
267 9.3 10925.7 -1056.4  
268 9.8 10933.9 -1047.1  
269 9.8 10949.0 -1005.0  
270 8.7 10959.9 -1057.3  
271 8.7 11000.9 -1043.9  
  
272 8.9 11017.4 -1010.6  
273 10. 11018.6 -1019.6  
274 9.0 11021.9 -1006.9  
275 9.3 11042.1 -1054.0  
276 9.1 11043.7 -1025.4  
277 9.0 11044.4 -1042.4  
278 10. 11136.4 -1042.8  
279 8.4 11156.0 -1008.8  
280 9.1 11205.4 -1034.0  
281 9.8 11210.6 -1023.8  
  
282 9.7 11218.5 -1037.1  
283 10. 11223.7 -1043.1  
284 8.7 11237.9 -1044.6  
285 9.5 11241.2 -1023.9  
286 7.2 11249.0 -1038.6  
287 9.2 11253.2 -1004.5  
288 8.8 11203.3 -1030.6  
289 9.3 11334.8 -1029.0  
290 9.8 11400.1 -1048.6  
291 9.7 11415.2 -1053.1  
  
292 10. 11416.0 -1018.7  
293 9.0 11426.3 -1026.1  
294 9.1 11441.7 -1013.4  
295 8.7 11445.0 -1013.0  
296 9.0 11526.7 -1020.9  
297 9.8 11559.1 -1013.5  
298 9.0 11630.8 -1041.2  
299 8.3 11649.9 -1034.0  
300 9.8 11706.7 -1031.0  
301 10. 11720.5 -1039.4  
  
302 9.5 11725.2 -1027.4  
303 9.8 11743.8 -1022.5  
304 9.8 11758.0 -1052.0  
305 9.3 11814.3 -1010.3  
306 10. 11836.6 -1040.2  
307 9.3 11839.8 -1053.9  
308 9.2 11941.4 -1003.9  
309 7.2 12014.6 -1002.7  
310 9.5 12025.0 -1028.1  
311 8.5 12051.3 -1047.5  
  
312 9.1 12055.1 -1001.8  
313 9.2 12059.3 -1057.2  
314 9.8 12109.4 -1019.3  
315 9.0 12116.5 -1023.1  
316 7.2 12219.2 -1014.5  
317 9.8 12225.2 -1031.5  
318 9.5 12230.5 -1024.3  
319 9.2 12242.7 -1040.0  
320 10. 12254.1 -1015.1  
321 10. 12349.8 -1038.6  
  
322 9.9 12351.1 -1043.5  
323 9.5 12355.0 -1056.5  
324 8.0 12357.8 -1003.4  
325 8.4 12408.3 -1018.1  
326 8.0 12418.1 -1026.8  
327 9.9 12458.9 -1024.2  
328 8.8 12512.2 -1015.2  
329 9.8 12547.0 -1027.7  
330 9.1 12622.0 -1015.6  
331 9.5 12626.4 -1008.1  
  
332 9.3 12644.7 -1019.9  
333 9.8 12646.0 -1010.8  
334 9.8 12649.9 -1021.6  
335 9.5 12744.4 -1003.9  
336 10. 12752.5 -1053.1  
337 9.4 12827.9 -1019.8  
338 9.6 12905.9 -1017.1  
339 9.6 12912.5 -1045.7  
340 9.9 12923.9 -1014.8  
341 10. 12947.7 -1055.7

342 9.8 13022.1 -1029.7  
343 6.3 13022.5 -1008.4  
344 9.0 13043.4 -1020.6  
345 10. 13052.6 -1055.5  
346 9.3 13124.3 -1037.5  
347 8.3 13135.7 -1057.8  
348 9.1 13236.3 -1030.0  
349 7.8 13241.8 -1042.7  
350 9.4 13300.6 -1047.9  
351 9.4 13305.1 -1027.6  
  
352 9.5 13308.7 -1037.9  
353 10. 13322.3 -1041.7  
354 10. 13323.7 -1051.0  
355 9.0 13327.4 -1034.1  
356 10. 13351.8 -1051.5  
357 8.6 13358.3 -1042.1  
358 9.0 13406.4 -1006.1  
359 9.4 13439.6 -1005.7  
360 9.8 13444.3 -1014.5  
361 9.5 13517.0 -1020.5  
  
362 9.3 13537.3 -1015.2  
363 9.9 13544.2 -1021.9  
364 10. 13619.8 -1014.4  
365 10. 13627.4 -1032.3  
366 9.5 13716.3 -1049.1  
367 8.8 13721.7 -1020.4  
368 9.6 13748.5 -1048.6  
369 9.5 13809.6 -1006.1  
370 9.0 13839.1 -1003.9  
371 9.9 13911.9 -1014.8  
  
372 9.4 13931.5 -1017.2  
373 9.2 13944.3 -1045.9  
374 9.5 13946.0 -1028.7  
375 9.4 13950.8 -1044.8  
376 8.3 13955.7 -1019.4  
377 9.0 14004.5 -1032.4  
378 8.7 14014.6 -1013.2  
379 9.5 14102.8 -1013.0  
380 10. 14109.7 -1034.0  
381 9.5 14111.9 -1047.5  
  
382 9.1 14139.3 -1024.2  
383 9.8 14201.0 -1016.4  
384 9.8 14219.5 -1027.8  
385 9.5 14256.7 -1042.9  
386 9.4 14259.1 -1057.5  
387 9.3 14309.4 -1018.5  
388 9.2 14320.2 -1004.5  
389 9.1 14435.2 -1030.4  
390 9.1 14436.9 -1038.7  
391 8.5 14453.8 -1017.9  
  
392 8.0 14506.3 -1027.0  
393 9.5 14528.0 -1014.5  
394 9.5 14558.9 -1056.0  
395 9.5 14652.0 -1035.6  
396 9.9 14653.8 -1003.7  
397 9.6 14655.3 -1010.3  
398 9.8 14706.6 -1014.0  
399 7.8 14803.9 -1032.5  
400 10. 14806.2 -1013.4  
401 9.6 14900.1 -1003.2  
  
402 9.8 14919.2 -1010.9  
403 6.7 15004.4 -1056.0  
404 9.5 15028.5 -1018.0  
405 9.8 15030.9 -1001.7  
406 9.8 15040.7 -1041.0  
407 9.1 15041.0 -1005.0  
408 9.5 15108.9 -1012.6  
409 9.2 15131.0 -1028.8  
410 9.7 15144.1 -1031.4  
411 9.8 15148.8 -1028.3  
  
412 8.5 15200.1 -1053.3  
413 8.1 15209.4 -1017.0  
414 9.5 15232.6 -1033.2  
415 9.7 15243.3 -1013.0  
416 9.5 15253.0 -1003.4  
417 9.0 15338.8 -1018.0  
418 9.0 15348.1 -1007.0  
419 9.5 15353.1 -1050.6  
420 9.5 15409.6 -1010.5  
421 8.8 15442.5 -1027.4  
  
422 9.3 15557.3 -1037.6  
423 10. 15622.0 -1002.5  
424 7.5 15626.7 -1009.6  
425 9.3 15635.5 -1054.3  
426 9.8 15658.6 -1048.9  
427 8.9 15759.6 -1003.3  
428 9.0 15814.7 -1029.1  
429 8.8 15858.2 -1054.3  
430 7.0 15903.6 -1057.9  
431 8.5 15918.4 -1041.2

432 9.0 15935.1 -1047.8  
433 9.2 15950.6 -1058.3  
434 9.3 20037.0 -1042.8  
435 8.8 20048.8 -1033.2  
436 9.9 20058.5 -1022.5  
437 7.0 20112.1 -1044.0  
438 9.1 20134.2 -1046.6  
439 9.1 20218.9 -1052.4  
440 8.5 20224.3 -1033.5  
441 8.7 20230.1 -1019.9  
  
442 10. 20237.1 -1002.6  
443 10. 20318.2 -1001.0  
444 9.5 20323.6 -1042.4  
445 9.5 20358.7 -1028.7  
446 9.5 20412.7 -1001.5  
447 6.5 20415.6 -1044.1  
448 9.8 20521.9 -1016.9  
449 9.3 20531.5 -1036.1  
450 9.2 20544.2 -1021.4  
451 9.5 20552.1 -1017.3  
  
452 9.5 20621.7 -1006.2  
453 8.3 20625.3 -1025.6  
454 9.1 20634.4 -1050.5  
455 8.5 20636.3 -1045.1  
456 9.5 20724.7 -1017.5  
457 9.6 20726.8 -1057.6  
458 9.4 20755.9 -1018.3  
459 10. 20759.2 -1001.4  
460 7.0 20820.4 -1008.5  
461 9.1 20857.0 -1033.3  
  
462 7.5 20906.9 -1029.5  
463 9.2 20956.5 -1057.2  
464 9.4 21049.3 -1055.9  
465 9.8 21105.1 -1034.8  
466 9.4 21117.2 -1045.3  
467 10. 21129.0 -1055.3  
468 10. 21134.2 -1044.4  
469 10. 21152.5 -1004.5  
470 9.4 21217.8 -1021.7  
471 9.5 21220.6 -1053.9  
  
472 9.5 21248.1 -1006.1  
473 9.8 21329.5 -1053.3  
474 9.5 21343.9 -1024.1  
475 9.5 21349.7 -1042.4  
476 10. 21409.5 -1002.9  
477 9.5 21415.0 -1017.7  
478 9.3 21422.6 -1003.8  
479 8.5 21443.1 -1003.3  
480 9.9 21450.5 -1043.4  
481 9.4 21451.0 -1047.9  
  
482 8.6 21537.2 -1051.7  
483 9.4 21550.0 -1024.5  
484 9.5 21604.8 -1020.3  
485 9.9 21620.1 -1001.1  
486 9.4 21708.5 -1027.6  
487 8.1 21756.7 -1051.3  
488 8.3 21807.1 -1015.8  
489 9.4 21835.2 -1020.7  
490 10. 21839.4 -1012.2  
491 8.3 21848.8 -1033.8  
  
492 8.8 21926.1 -1016.2  
493 9.3 21948.5 -1039.4  
494 9.8 22020.7 -1048.5  
495 8.3 22038.0 -1027.2  
496 9.0 22112.2 -1003.3  
497 8.5 22130.1 -1022.5  
498 8.8 22133.5 -1014.9  
499 9.5 22202.8 -1028.9  
500 10. 22205.9 -1008.5  
501 9.5 22206.4 -1053.4  
  
502 9.5 22238.9 -1008.7  
503 8.5 22240.8 -1003.1  
504 9.1 22339.7 -1003.6  
505 9.9 22352.3 -1005.9  
506 9.5 22432.5 -1046.5  
507 9.1 22603.2 -1059.5  
508 9.4 22630.9 -1005.0  
509 9.2 22640.5 -1014.5  
510 10. 22643.7 -1021.1  
511 9.5 22731.2 -1042.8  
  
512 8.0 22758.3 -1031.4  
513 8.0 22801.4 -1004.8  
514 9.2 22807.9 -1003.4  
515 9.5 22900.2 -1044.4  
516 9.5 22911.3 -1053.5  
517 9.8 22954.2 -1049.4  
518 8.9 23001.4 -1003.9  
519 9.4 23043.3 -1031.4  
520 9.9 23123.2 -1015.5  
521 8.8 23204.1 -1009.6

522 6.8 23205.9 -1027.3  
523 9.4 23223.8 -1026.9  
524 9.2 23241.1 -1012.8  
525 6.2 23308.5 -1004.5  
526 9.2 23324.4 -1036.7  
527 9.1 23331.8 -1013.5  
528 9.8 23340.0 -1003.1  
529 9.8 23400.0 -1055.9  
530 8.8 23411.8 -1023.0  
531 9.8 23416.9 -1024.4  
  
532 9.9 23418.1 -1019.8  
533 9.5 23540.3 -1048.1  
534 10. 23551.0 -1001.5  
535 10. 23604.1 -1042.5  
536 9.4 23609.3 -1018.4  
537 9.4 23609.7 -1021.2  
538 9.8 23627.6 -1050.5  
539 9.5 23630.2 -1035.4  
540 9.8 23637.2 -1031.3  
541 9.4 23731.2 -1005.7  
  
542 9.1 23820.1 -1028.1  
543 9.5 23825.3 -1056.4  
544 9.1 23915.8 -1016.9  
545 9.5 23924.9 -1046.9  
546 9.0 23927.6 -1025.2  
547 9.1 23930.4 -1045.7  
548 9.5 23953.9 -1044.4  
549 8.9 23957.1 -1028.3  
550 9.2 24003.9 -1010.6  
551 9.7 24024.6 -1013.3  
  
552 9.1 24026.2 -1005.5  
553 9.4 24050.8 -1015.1  
554 9.8 24107.5 -1049.7  
555 10. 24110.6 -1021.2  
556 10. 24218.6 -1053.3  
557 9.4 24231.7 -1001.0  
558 8.0 24233.3 -1008.1  
559 9.3 24240.1 -1019.2  
560 9.8 24249.4 -1036.5  
561 9.2 24304.3 -1052.8  
  
562 9.3 24304.6 -1058.0  
563 9.9 24313.2 -1005.9  
564 9.5 24316.8 -1033.9  
565 9.7 24403.1 -1055.9  
566 8.8 24403.1 -1051.2  
567 9.8 24420.8 -1031.0  
568 9.3 24510.7 -1059.1  
569 6.5 24546.2 -1002.5  
570 9.8 24609.3 -1035.5  
571 9.5 24612.5 -1043.2  
  
572 9.1 24641.8 -1014.8  
573 10. 24703.4 -1033.8  
574 10. 24705.2 -1013.6  
575 9.8 24737.3 -1031.5  
576 10. 24800.9 -1006.8  
577 8.3 24847.3 -1001.7  
578 9.8 24916.9 -1012.6  
579 9.5 24949.9 -1030.0  
580 8.2 24953.8 -1057.7  
581 9.0 25026.7 -1051.8  
  
582 9.7 25027.5 -1014.9  
583 9.1 25134.0 -1033.0  
584 9.4 25139.2 -1046.1  
585 6.5 25145.8 -1021.4  
586 8.3 25226.7 -1051.2  
587 9.5 25228.4 -1022.3  
588 9.4 25233.5 -1048.8  
589 9.9 25254.3 -1059.4  
590 9.7 25325.3 -1014.9  
591 8.2 25353.9 -1036.6  
  
592 9.0 25415.9 -1054.4  
593 9.0 25452.2 -1045.8  
594 6.0 25454.9 -1031.9  
595 10. 25531.6 -1010.9  
596 9.4 25536.9 -1001.1  
597 9.3 25540.7 -1006.0  
598 9.4 25621.4 -1039.6  
599 9.4 25633.5 -1053.2  
600 10. 25653.2 -1033.1  
601 9.0 25723.7 -1025.3  
  
602 8.5 25747.0 -1044.4  
603 9.1 25759.2 -1000.6  
604 10. 25838.8 -1008.4  
605 9.9 25858.8 -1032.0  
606 9.6 25907.3 -1055.4  
607 9.5 25909.0 -1000.6  
608 9.9 25913.2 -1023.0  
609 9.9 25918.5 -1050.7  
610 7.0 25933.0 -1048.5  
611 9.3 25934.9 -1017.5

-10 611 2h59m



-10 612 3h00m

612 10. 30007.3 -1034.1  
613 9.4 30009.7 -1024.6  
614 10. 30024.6 -1059.4  
615 9.6 30038.3 -1018.1  
616 10. 30040.0 -1041.3  
617 9.8 30103.6 -1052.5  
618 9.0 30116.4 -1046.2  
619 10. 30124.6 -1014.9  
620 8.0 30126.1 -1006.3  
621 9.3 30129.7 -1054.1  
  
622 9.5 30149.6 -1006.1  
623 9.5 30210.0 -1037.9  
624 9.9 30215.6 -1027.7  
625 9.1 30233.1 -1046.1  
626 8.3 30240.0 -1007.5  
627 9.5 30248.2 -1021.1  
628 10. 30255.3 -1059.9  
629 9.8 30301.0 -1013.0  
630 9.4 30307.0 -1015.8  
631 9.5 30317.0 -1038.3  
  
632 10. 30342.7 -1004.8  
633 9.1 30452.1 -1059.4  
634 9.3 30502.4 -1036.8  
635 9.4 30508.6 -1012.1  
636 10. 30600.9 -1029.6  
637 10. 30609.3 -1004.3  
638 8.1 30622.5 -1032.4  
639 9.0 30641.1 -1059.3  
640 9.0 30723.1 -1045.4  
641 9.6 30727.3 -1019.7  
  
642 7.5 30732.0 -1013.9  
643 10. 30806.3 -1055.4  
644 9.3 30850.0 -1011.9  
645 10. 30913.6 -1014.0  
646 9.5 30929.0 -1005.9  
647 9.9 30949.5 -1029.4  
648 9.0 31040.1 -1029.6  
649 7.2 31100.6 -1058.4  
650 8.0 31120.1 -1015.7  
651 10. 31125.9 -1055.5  
  
652 9.3 31135.3 -1046.8  
653 9.3 31204.0 -1001.0  
654 9.7 31214.5 -1008.2  
655 9.4 31332.1 -1022.9  
656 9.2 31352.1 -1006.2  
657 9.0 31369.8 -1052.0  
658 9.6 31403.3 -1045.5  
659 9.0 31441.2 -1020.4  
660 9.3 31501.4 -1046.2  
661 8.8 31501.6 -1010.4  
  
662 10. 31554.6 -1025.0  
663 9.0 31602.2 -1006.4  
664 9.9 31613.3 -1048.6  
665 8.8 31623.4 -1045.7  
666 9.3 31637.8 -1044.0  
667 10. 31640.6 -1001.6  
668 10. 31652.9 -1012.9  
669 10. 31655.5 -1054.0  
670 10. 31715.1 -1032.8  
671 9.7 31739.1 -1003.8  
  
672 9.0 31742.6 -1056.0  
673 9.4 31820.1 -1003.2  
674 9.5 31839.7 -1030.0  
675 9.8 31857.0 -1054.2  
676 9.5 31901.9 -1015.5  
677 9.2 31902.3 -1047.2  
678 10. 31905.4 -1006.1  
679 8.4 31944.9 -1001.7  
680 9.6 32006.7 -1023.8  
681 9.3 32124.2 -1001.6  
  
682 9.7 32145.0 -1045.2  
683 8.3 32150.4 -1040.7  
684 9.2 32151.3 -1009.0  
685 9.3 32202.1 -1052.9  
686 10. 32202.2 -1025.2  
687 9.1 32203.3 -1052.3  
688 9.4 32235.7 -1017.6  
689 10. 32300.6 -1054.5  
690 9.4 32333.7 -1002.6  
691 6.8 32341.0 -1013.9  
  
692 9.8 32440.5 -1043.7  
693 9.7 32458.6 -1021.1  
694 8.0 32614.3 -1032.3  
695 9.2 32617.9 -1011.2  
696 8.6 32618.3 -1033.6  
697 9.1 32630.2 -1020.9  
698 10. 32630.7 -1000.3  
699 9.4 32636.8 -1005.0  
700 9.3 32652.9 -1008.1  
701 9.5 32657.4 -1041.9

702 9.2 32714.8 -1031.9  
703 9.9 32722.6 -1053.2  
704 6.5 32739.3 -1021.4  
705 9.0 32750.8 -1023.6  
706 9.1 32815.0 -1003.8  
707 10. 32822.4 -1030.0  
708 8.6 32858.5 -1040.5  
709 9.4 32906.2 -1018.2  
710 9.2 32919.8 -1002.6  
711 10. 32942.8 -1031.6  
  
712 9.8 33009.1 -1049.9  
713 8.8 33029.9 -1008.9  
714 9.9 33108.6 -1041.1  
715 10. 33120.4 -1000.8  
716 9.3 33156.9 -1027.0  
717 6.1 33229.6 -1054.6  
718 9.3 33231.7 -1045.3  
719 9.4 33259.7 -1049.8  
720 9.4 33313.1 -1045.5  
721 10. 33323.4 -1008.7  
  
722 10. 33418.5 -1056.0  
723 9.8 33509.0 -1008.7  
724 8.8 33513.3 -1017.9  
725 9.1 33516.9 -1012.1  
726 9.4 33529.1 -1034.7  
727 8.8 33551.4 -1058.5  
728 3.3 33617.9 -1015.0  
729 6.0 33638.3 -1056.7  
730 7.7 33646.7 -1004.0  
731 9.4 33647.8 -1055.7  
  
732 9.8 33659.7 -1050.2  
733 9.3 33704.4 -1003.1  
734 9.5 33704.7 -1014.8  
735 9.2 33714.1 -1032.4  
736 8.0 33747.7 -1042.2  
737 9.3 33750.9 -1054.6  
738 9.3 33757.2 -1049.4  
739 8.9 33841.7 -1045.0  
740 9.8 33858.0 -1005.5  
741 7.0 33915.7 -1019.9  
  
742 9.8 33925.1 -1030.4  
743 8.5 33937.3 -1010.5  
744 9.6 33956.8 -1050.7  
745 9.4 34013.4 -1008.9  
746 10. 34038.9 -1051.5  
747 10. 34049.6 -1046.4  
748 9.7 34109.8 -1040.0  
749 9.7 34139.2 -1037.8  
750 9.4 34143.4 -1010.3  
751 9.7 34151.0 -1002.9  
  
752 9.7 34202.0 -1010.8  
753 9.9 34229.0 -1016.1  
754 9.5 34235.9 -1048.1  
755 10. 34304.1 -1016.7  
756 9.7 34319.7 -1006.5  
757 8.2 34329.8 -1045.7  
758 9.9 34354.6 -1034.5  
759 8.2 34405.4 -1010.4  
760 9.5 34428.2 -1010.2  
761 9.4 34435.1 -1005.0  
  
762 9.5 34436.9 -1043.2  
763 8.3 34459.1 -1057.9  
764 9.8 34544.9 -1044.3  
765 10. 34554.8 -1037.8  
766 9.9 34557.0 -1013.2  
767 9.3 34603.7 -1001.3  
768 9.8 34612.7 -1005.3  
769 9.6 34617.4 -1009.6  
770 9.5 34623.5 -1024.5  
771 7.8 34629.4 -1058.7  
  
772 9.5 34719.9 -1042.6  
773 9.5 34720.3 -1019.1  
774 8.5 34720.8 -1051.5  
775 9.5 34724.4 -1044.0  
776 9.3 34726.7 -1023.9  
777 9.3 34748.4 -1007.7  
778 9.1 34813.3 -1036.4  
779 9.4 34817.8 -1000.2  
780 9.8 34821.3 -1034.2  
781 9.4 34831.8 -1036.0  
  
782 9.9 34838.9 -1037.5  
783 8.3 34842.5 -1058.1  
784 9.8 34847.0 -1043.4  
785 9.0 34904.7 -1024.4  
786 9.1 34906.4 -1045.5  
787 8.5 34914.0 -1015.4  
788 9.6 34934.1 -1018.6  
789 9.3 34936.9 -1040.4  
790 9.5 34938.4 -1041.9  
791 9.2 34938.6 -1005.4

792 9.4 34939.0 -1006.1  
793 6.5 34940.6 -1010.5  
794 9.2 35009.0 -1014.9  
795 9.2 35012.1 -1052.6  
796 8.0 35040.9 -1006.8  
797 9.1 35047.4 -1040.8  
798 9.8 35100.3 -1016.5  
799 9.2 35103.9 -1039.0  
800 9.4 35104.6 -1035.4  
801 9.7 35114.0 -1040.8  
  
802 9.7 35122.5 -1037.2  
803 9.7 35144.4 -1028.5  
804 10. 35145.2 -1003.9  
805 10. 35147.0 -1021.6  
806 9.5 35157.8 -1023.2  
807 9.0 35228.3 -1023.6  
808 8.2 35242.2 -1044.1  
809 9.0 35249.6 -1054.0  
810 9.5 35336.5 -1037.6  
811 10. 35350.5 -1040.5  
  
812 10. 35353.8 -1018.3  
813 8.7 35400.6 -1051.5  
814 9.0 35400.7 -1051.3  
815 9.5 35430.7 -1052.0  
816 9.8 35433.9 -1033.3  
817 9.3 35504.4 -1026.3  
818 9.0 35508.2 -1053.5  
819 9.0 35517.4 -1030.4  
820 9.5 35522.5 -1022.2  
821 9.8 35523.0 -1038.0  
  
822 9.6 35607.4 -1028.8  
823 8.2 35630.7 -1057.8  
824 9.4 35714.8 -1017.2  
825 10. 35719.3 -1030.0  
826 9.5 35720.1 -1026.5  
827 9.5 35724.2 -1011.7  
828 9.2 35725.9 -1049.4  
829 9.5 35726.0 -1054.5  
830 10. 35726.9 -1031.5  
831 8.0 35730.5 -1038.1  
  
832 10. 35758.0 -1032.3  
833 10. 35827.2 -1045.3  
834 6.8 35859.1 -1041.9  
835 9.8 35913.3 -1037.2  
836 9.1 35938.5 -1031.4  
837 9.9 35958.9 -1027.1  
838 9.7 40004.8 -1011.1  
839 6.7 40006.9 -1023.2  
840 9.7 40008.0 -1034.1  
841 7.2 40019.8 -1009.1  
  
842 9.1 40031.9 -1026.6  
843 9.3 40033.7 -1009.1  
844 9.0 40046.0 -1030.3  
845 9.7 40055.8 -1016.8  
846 9.8 40109.5 -1004.8  
847 9.1 40159.0 -1000.9  
848 9.8 40202.4 -1059.8  
849 9.2 40232.7 -1045.0  
850 9.7 40233.9 -1055.0  
851 9.0 40234.0 -1031.1  
  
852 10. 40252.3 -1029.4  
853 9.5 40255.2 -1033.0  
854 9.0 40257.1 -1004.2  
855 9.0 40315.6 -1033.4  
856 9.2 40436.9 -1012.0  
857 9.7 40443.1 -1027.0  
858 8.6 40516.4 -1050.7  
859 10. 40527.3 -1048.9  
860 8.3 40540.0 -1056.7  
861 9.8 40550.6 -1000.3  
  
862 9.5 40552.6 -1032.8  
863 7.7 40635.5 -1045.2  
864 9.3 40657.3 -1015.8  
865 9.8 40713.6 -1002.1  
866 10. 40725.4 -1020.7  
867 4.8 40730.0 -1037.4  
868 10. 40732.3 -1022.5  
869 9.9 40733.7 -1040.0  
870 9.8 40734.9 -1044.0  
871 9.6 40753.6 -1026.6  
  
872 8.1 40755.2 -1056.6  
873 9.2 40757.4 -1042.7  
874 9.1 40806.1 -1001.9  
875 9.0 40809.0 -1001.2  
876 9.5 40834.1 -1002.6  
877 9.3 40851.6 -1028.9  
878 8.3 40858.0 -1019.5  
879 10. 40907.6 -1053.4  
880 9.6 40920.2 -1015.6  
881 10. 40939.1 -1052.8

882 7.5 40941.5 -1027.1  
883 9.8 41040.9 -1045.4  
884 9.1 41047.8 -1020.3  
885 9.3 41051.6 -1028.1  
886 9.5 41121.4 -1039.7  
887 9.1 41134.5 -1048.6  
888 9.6 41146.1 -1052.6  
889 9.2 41157.1 -1040.0  
890 10. 41217.5 -1046.0  
891 9.0 41224.3 -1006.3  
  
892 8.4 41242.0 -1056.1  
893 9.4 41247.1 -1058.5  
894 10. 41253.0 -1016.2  
895 8.5 41320.6 -1051.1  
896 9.5 41331.7 -1031.7  
897 10. 41356.2 -1015.2  
898 9.8 41405.2 -1031.6  
899 9.7 41416.5 -1022.7  
900 9.5 41420.1 -1046.5  
901 10. 41506.0 -1045.2  
  
902 8.0 41509.1 -1017.7  
903 8.3 41518.8 -1036.9  
904 9.3 41519.6 -1025.1  
905 8.8 41537.0 -1023.3  
906 10. 41639.0 -1011.9  
907 9.0 41649.4 -1036.9  
908 9.2 41705.5 -1042.0  
909 9.9 41718.2 -1001.1  
910 9.7 41741.2 -1028.4  
911 9.5 41802.1 -1045.7  
  
912 8.7 41808.3 -1043.3  
913 9.5 41814.1 -1007.2  
914 9.3 41814.2 -1010.3  
915 9.6 41838.1 -1021.7  
916 8.5 41847.3 -1055.2  
917 6.8 41848.3 -1015.7  
918 9.8 41927.8 -1028.5  
919 7.8 41933.2 -1052.4  
920 9.8 41949.9 -1016.4  
921 9.5 42005.3 -1032.5  
  
922 9.1 42049.1 -1015.3  
923 9.8 42102.7 -1050.0  
924 9.1 42103.8 -1000.7  
925 8.4 42138.7 -1015.6  
926 8.3 42200.5 -1020.9  
927 8.9 42228.7 -1048.0  
928 9.2 42238.1 -1031.6  
929 9.7 42240.8 -1055.3  
930 9.7 42245.7 -1022.0  
931 9.9 42304.4 -1032.9  
  
932 9.3 42320.3 -1029.1  
933 8.7 42336.1 -1014.2  
934 9.9 42353.1 -1057.4  
935 10. 42403.9 -1007.6  
936 9.8 42414.2 -1027.3  
937 9.0 42439.8 -1026.3  
938 9.7 42443.9 -1019.3  
939 9.5 42456.1 -1011.5  
940 9.2 42504.5 -1006.9  
941 9.8 42512.2 -1047.1  
  
942 9.0 42518.9 -1053.6  
943 8.5 42523.1 -1014.3  
944 9.5 42523.4 -1048.4  
945 9.5 42527.0 -1033.7  
946 9.5 42531.5 -1009.7  
947 9.8 42532.4 -1002.1  
948 9.3 42553.2 -1046.5  
949 9.1 42559.6 -1039.4  
950 10. 42605.0 -1035.6  
951 8.9 42609.8 -1008.7  
  
952 9.4 42629.5 -1032.8  
953 9.5 42648.1 -1024.7  
954 9.6 42705.2 -1042.2  
955 9.6 42708.5 -1034.1  
956 9.8 42719.1 -1005.6  
957 8.9 42742.4 -1053.7  
958 8.2 42818.4 -1002.3  
959 7.3 42819.2 -1002.3  
960 9.8 42848.2 -1036.1  
961 9.8 42848.4 -1021.1  
  
962 10. 42859.8 -1001.6  
963 9.3 42901.7 -1029.8  
964 10. 42909.6 -1047.2  
965 9.1 42932.5 -1017.1  
966 8.9 42939.3 -1032.2  
967 8.3 43004.6 -1011.4  
968 8.6 43031.9 -1008.9  
969 9.8 43041.7 -1046.6  
970 9.5 43117.5 -1015.8  
971 9.1 43125.8 -1016.8

-10 971 4h31m



-10 972 4h31m

972 9.0 43137.0 -1030.0  
973 9.0 43204.9 -1058.9  
974 9.8 43231.7 -1050.2  
975 9.4 43236.4 -1037.4  
976 10. 43237.6 -1017.2  
977 8.4 43256.2 -1059.2  
978 9.2 43256.8 -1027.3  
979 9.5 43325.5 -1014.7  
980 8.8 43340.1 -1055.4  
981 9.0 43340.6 -1042.2

982 8.8 43354.7 -1047.8  
983 9.0 43359.2 -1021.2  
984 10. 43406.1 -1014.2  
985 9.3 43408.3 -1028.5  
986 9.7 43449.4 -1005.9  
987 10. 43514.0 -1007.6  
988 10. 43519.1 -1034.7  
989 10. 43520.9 -1008.7  
990 10. 43522.3 -1034.0  
991 9.4 43623.3 -1028.2

992 9.5 43650.1 -1037.6  
993 8.0 43654.7 -1057.5  
994 8.5 43657.9 -1024.7  
995 9.6 43658.4 -1005.0  
996 9.2 43705.0 -1054.1  
997 9.6 43710.3 -1059.1  
998 9.0 43713.0 -1020.2  
999 8.5 43731.6 -1012.9  
1000 9.4 43733.3 -1031.1  
1001 9.9 43753.9 -1055.0

1002 9.1 43807.8 -1009.7  
1003 9.8 43816.4 -1052.5  
1004 9.6 43829.4 -1003.3  
1005 10. 43841.9 -1056.2  
1006 8.7 43918.9 -1029.7  
1007 9.1 43922.6 -1006.8  
1008 9.5 43935.2 -1016.2  
1009 9.5 43950.8 -1015.8  
1010 9.5 43953.0 -1042.7  
1011 9.3 44027.5 -1024.0

1012 9.0 44029.9 -1045.2  
1013 8.9 44056.4 -1058.1  
1014 9.3 44104.8 -1041.3  
1015 9.2 44111.0 -1047.5  
1016 8.4 44112.2 -1051.1  
1017 9.5 44114.4 -1010.3  
1018 9.8 44157.3 -1025.2  
1019 9.0 44228.5 -1050.0  
1020 9.3 44229.4 -1043.1  
1021 9.0 44235.1 -1051.3

1022 10. 44237.5 -1035.5  
1023 9.5 44257.2 -1008.8  
1024 8.9 44319.1 -1031.6  
1025 9.5 44335.2 -1004.4  
1026 8.3 44414.5 -1001.5  
1027 9.3 44440.3 -1040.6  
1028 7.2 44447.7 -1032.3  
1029 9.5 44457.4 -1043.0  
1030 9.7 44502.6 -1029.4  
1031 9.6 44537.6 -1030.2

1032 7.8 44543.4 -1044.1  
1033 9.2 44551.5 -1046.6  
1034 9.9 44619.4 -1053.8  
1035 9.6 44631.6 -1055.5  
1036 9.1 44644.0 -1045.6  
1037 9.8 44646.2 -1018.8  
1038 9.1 44657.6 -1052.9  
1039 9.6 44707.3 -1008.6  
1040 9.1 44740.8 -1057.5  
1041 9.4 44747.1 -1048.3

1042 8.8 44750.2 -1001.5  
1043 8.8 44757.4 -1050.7  
1044 9.4 44801.7 -1003.4  
1045 10. 44824.6 -1001.2  
1046 9.1 44833.9 -1038.9  
1047 8.7 44837.5 -1018.3  
1048 10. 44842.4 -1051.3  
1049 10. 44855.2 -1012.8  
1050 8.9 44912.5 -1023.6  
1051 9.3 44926.4 -1001.0

1052 9.7 44945.2 -1018.6  
1053 9.0 44956.7 -1004.7  
1054 9.2 45002.9 -1038.7  
1055 9.8 45038.1 -1022.3  
1056 9.0 45051.9 -1039.2  
1057 9.6 45103.7 -1040.6  
1058 9.0 45118.2 -1028.7  
1059 9.5 45128.1 -1014.5  
1060 9.5 45146.7 -1031.2  
1061 9.1 45217.4 -1024.3

1062 9.8 45227.7 -1027.9  
1063 8.0 45234.9 -1034.5  
1064 9.8 45235.8 -1056.2  
1065 8.8 45246.9 -1032.5  
1066 5.5 45258.7 -1028.7  
1067 9.5 45305.0 -1059.7  
1068 9.2 45314.6 -1035.1  
1069 9.1 45317.8 -1055.8  
1070 9.4 45336.8 -1004.4  
1071 8.8 45418.8 -1004.9

1072 9.5 45423.2 -1013.5  
1073 8.0 45438.3 -1051.9  
1074 9.9 45440.5 -1040.1  
1075 9.5 45506.5 -1014.5  
1076 9.3 45556.6 -1041.8  
1077 9.8 45618.6 -1041.4  
1078 10. 45636.4 -1009.0  
1079 9.5 45652.8 -1045.9  
1080 9.2 45656.9 -1035.6  
1081 9.3 45658.4 -1047.0

1082 9.5 45702.5 -1028.7  
1083 7.5 45709.2 -1050.8  
1084 9.9 45716.3 -1002.0  
1085 9.2 45730.0 -1020.9  
1086 8.6 45736.6 -1044.8  
1087 8.5 45800.5 -1043.5  
1088 9.8 45812.5 -1011.7  
1089 9.5 45836.0 -1057.1  
1090 8.5 45837.1 -1001.6  
1091 9.3 45848.6 -1043.9

1092 9.5 45858.8 -1005.9  
1093 8.8 45907.4 -1019.3  
1094 9.2 45910.3 -1029.8  
1095 9.0 45920.6 -1005.9  
1096 7.9 45920.8 -1037.2  
1097 9.3 45923.6 -1038.0  
1098 9.6 45949.6 -1036.0  
1099 8.8 45957.1 -1003.2  
1100 9.5 50040.1 -1054.5  
1101 8.5 50052.1 -1003.6

1102 9.5 50115.7 -1041.1  
1103 9.5 50123.8 -1038.5  
1104 9.0 50140.0 -1048.3  
1105 9.4 50150.0 -1000.6  
1106 9.3 50208.6 -1028.1  
1107 10. 50217.6 -1027.6  
1108 9.2 50300.4 -1041.9  
1109 9.5 50317.0 -1035.8  
1110 9.5 50323.9 -1046.1  
1111 9.5 50339.3 -1012.6

1112 9.4 50345.2 -1008.1  
1113 9.2 50347.9 -1018.3  
1114 9.4 50408.3 -1057.1  
1115 10. 50410.0 -1037.8  
1116 9.8 50431.0 -1036.0  
1117 9.0 50436.3 -1011.1  
1118 9.8 50443.1 -1045.9  
1119 8.3 50445.1 -1058.5  
1120 8.0 50445.7 -1033.8  
1121 9.4 50455.0 -1044.8

1122 10. 50501.6 -1044.8  
1123 9.8 50517.2 -1044.6  
1124 9.5 50535.9 -1044.1  
1125 9.0 50631.0 -1046.5  
1126 9.3 50641.7 -1049.4  
1127 10. 50644.2 -1035.6  
1128 9.5 50657.4 -1017.4  
1129 9.0 50707.7 -1032.5  
1130 9.5 50727.5 -1022.6  
1131 7.5 50737.7 -1035.5

1132 9.7 50757.6 -1030.2  
1133 9.7 50757.9 -1020.4  
1134 9.5 50806.2 -1011.1  
1135 9.2 50811.2 -1008.4  
1136 9.5 50815.3 -1012.1  
1137 9.4 50839.9 -1011.1  
1138 10. 50851.8 -1008.2  
1139 9.0 50857.3 -1030.8  
1140 9.0 50918.6 -1024.8  
1141 9.5 50937.1 -1058.3

1142 10. 51028.1 -1001.1  
1143 9.5 51030.8 -1033.7  
1144 9.0 51054.1 -1050.7  
1145 9.5 51106.9 -1040.4  
1146 9.3 51129.8 -1008.7  
1147 9.5 51142.9 -1046.9  
1148 9.6 51147.1 -1051.4  
1149 8.4 51150.8 -1040.4  
1150 8.5 51208.4 -1014.9  
1151 9.5 51227.7 -1029.2

1152 8.5 51231.2 -1054.2  
1153 8.5 51232.2 -1054.2  
1154 9.3 51305.4 -1014.3  
1155 9.1 51309.3 -1058.1  
1156 8.8 51312.3 -1009.0  
1157 9.7 51318.9 -1036.3  
1158 9.5 51320.8 -1034.1  
1159 8.7 51349.9 -1040.8  
1160 9.3 51407.1 -1050.5  
1161 9.0 51414.2 -1030.4

1162 9.5 51426.0 -1043.4  
1163 9.0 51443.4 -1011.7  
1164 9.3 51444.3 -1009.0  
1165 9.5 51526.9 -1040.2  
1166 9.4 51549.1 -1058.7  
1167 10. 51552.4 -1005.0  
1168 9.0 51553.5 -1037.8  
1169 8.9 51554.5 -1042.4  
1170 9.4 51557.6 -1050.9  
1171 9.6 51606.9 -1038.6

1172 9.3 51615.5 -1054.5  
1173 9.0 51635.0 -1044.6  
1174 8.0 51643.8 -1033.4  
1175 9.0 51700.3 -1008.0  
1176 9.5 51730.5 -1018.7  
1177 9.3 51731.2 -1029.4  
1178 6.3 51810.7 -1028.1  
1179 9.0 51818.2 -1004.4  
1180 9.5 51828.0 -1056.8  
1181 9.7 51828.1 -1000.0

1182 10. 51844.9 -1020.6  
1183 10. 51852.9 -1010.2  
1184 10. 51900.0 -1020.4  
1185 8.5 51901.6 -1024.9  
1186 8.0 51915.3 -1053.0  
1187 10. 51928.1 -1042.3  
1188 10. 51928.7 -1018.8  
1189 10. 51933.3 -1006.1  
1190 10. 52010.6 -1020.4  
1191 9.5 52024.0 -1044.1

1192 8.5 52028.2 -1049.2  
1193 9.0 52037.3 -1005.2  
1194 8.8 52058.6 -1017.3  
1195 9.7 52109.4 -1007.6  
1196 8.8 52140.0 -1036.8  
1197 10. 52157.3 -1050.6  
1198 10. 52210.9 -1033.6  
1199 9.3 52211.2 -1048.8  
1200 9.5 52247.6 -1016.3  
1201 10. 52258.6 -1018.1

1202 8.4 52258.8 -1002.9  
1203 9.0 52323.7 -1022.1  
1204 7.0 52407.5 -1011.3  
1205 9.5 52414.0 -1056.1  
1206 9.8 52423.1 -1017.5  
1207 9.5 52426.0 -1035.4  
1208 9.4 52438.5 -1012.6  
1209 9.0 52451.0 -1039.8  
1210 8.5 52509.4 -1004.8  
1211 9.5 52519.0 -1038.1

1212 9.5 52531.9 -1033.7  
1213 10. 52536.5 -1011.8  
1214 9.0 52558.9 -1032.2  
1215 8.0 52613.0 -1035.3  
1216 9.5 52622.2 -1001.0  
1217 9.3 52638.3 -1022.8  
1218 9.3 52653.7 -1057.5  
1219 10. 52721.2 -1049.6  
1220 10. 52721.7 -1046.6  
1221 8.6 52728.4 -1009.4

1222 9.0 52730.7 -1072.3  
1223 10. 52732.9 -1009.3  
1224 7.5 52738.0 -1036.6  
1225 9.2 52741.2 -10 6.3  
1226 9.5 52748.0 -1011.3  
1227 9.7 52754.8 -1058.7  
1228 8.5 52759.7 -1000.5  
1229 9.7 52830.6 -1017.9  
1230 9.0 52847.5 -1013.8  
1231 9.0 52851.5 -1039.7

1232 9.3 52904.3 -1003.1  
1233 10. 52919.9 -1026.3  
1234 9.0 52936.4 -1003.5  
1235 8.5 52949.1 -1036.2  
1236 9.0 52952.8 -1022.7  
1237 10. 53000.8 -1022.7  
1238 9.0 53007.5 -1010.2  
1239 10. 53025.7 -1018.2  
1240 8.0 53045.9 -1029.4  
1241 9.0 53103.5 -1010.7

-10 1331 5h51m

1242 9.8 53117.2 -1054.3  
1243 9.3 53134.4 -1052.2  
1244 9.5 53139.9 -1029.4  
1245 10. 53146.3 -1049.0  
1246 9.4 53207.3 -1059.4  
1247 9.5 53209.4 -1052.2  
1248 9.5 53222.8 -1023.6  
1249 10. 53237.8 -1021.7  
1250 9.2 53243.5 -1039.6  
1251 9.2 53254.8 -1024.0

1252 9.2 53308.8 -1000.2  
1253 9.5 53311.8 -1019.9  
1254 9.5 53316.3 -1049.4  
1255 8.5 53341.0 -1031.0  
1256 9.0 53342.7 -1016.7  
1257 9.0 53349.9 -1027.0  
1258 7.0 53355.9 -1029.2  
1259 9.7 53359.5 -1058.9  
1260 9.3 53400.2 -1043.0  
1261 9.5 53434.8 -1023.9

1262 9.3 53440.9 -1029.3  
1263 9.5 53451.3 -1047.6  
1264 10. 53506.5 -1012.3  
1265 7.3 53544.6 -1042.0  
1266 8.9 53546.1 -1026.7  
1267 9.7 53554.2 -1029.1  
1268 9.4 53602.8 -1033.4  
1269 9.0 53628.7 -1047.1  
1270 10. 53707.3 -1058.0  
1271 7.0 53726.3 -1004.8

1272 9.3 53821.7 -1002.2  
1273 9.0 53836.2 -1057.4  
1274 8.0 53842.1 -1049.5  
1275 9.0 53908.9 -1044.5  
1276 10. 53929.8 -1007.3  
1277 9.3 53934.2 -1058.0  
1278 9.0 53954.1 -1054.0  
1279 8.0 54017.8 -1040.4  
1280 9.5 54033.6 -1002.5  
1281 6.5 54037.7 -1035.5

1282 9.3 54058.9 -1039.1  
1283 9.3 54111.1 -1014.5  
1284 9.3 54139.7 -1035.5  
1285 8.5 54152.3 -1019.0  
1286 9.0 54202.0 -1012.3  
1287 9.5 54213.0 -1048.4  
1288 9.7 54222.6 -1053.7  
1289 9.0 54225.3 -1021.2  
1290 10. 54305.3 -1000.2  
1291 10. 54309.0 -1034.5

1292 9.4 54314.8 -1007.1  
1293 9.3 54322.9 -1059.9  
1294 9.4 54336.6 -1000.9  
1295 9.2 54400.2 -1015.0  
1296 10. 54406.5 -1027.5  
1297 9.4 54417.0 -1010.5  
1298 9.5 54421.0 -1042.2  
1299 9.5 54431.9 -1002.7  
1300 8.8 54433.9 -1003.3  
1301 9.3 54452.5 -1025.9

1302 9.6 54453.1 -1059.4  
1303 8.0 54456.1 -1028.6  
1304 9.5 54500.9 -1038.0  
1305 9.0 54505.0 -1007.2  
1306 9.5 54505.0 -1040.3  
1307 10. 54617.0 -1045.2  
1308 9.0 54627.0 -1042.9  
1309 8.5 54637.0 -1042.9  
1310 10. 54640.5 -1027.3  
1311 9.5 54644.3 -1002.3

1312 9.5 54705.0 -1042.5  
1313 10. 54720.1 -1010.8  
1314 10. 54721.5 -1043.8  
1315 9.5 54730.8 -1000.5  
1316 9.6 54808.4 -1009.4  
1317 9.6 54816.5 -1001.7  
1318 9.0 54853.8 -1053.2  
1319 9.0 54912.0 -1007.5  
1320 9.2 54943.6 -1038.8  
1321 8.0 54944.9 -1039.7

1322 9.1 54949.5 -1043.4  
1323 9.0 55002.0 -1008.5  
1324 10. 55005.2 -1051.4  
1325 7.8 55015.3 -1052.6  
1326 9.5 55038.0 -1037.9  
1327 9.0 55040.2 -1050.4  
1328 9.5 55049.1 -1005.6  
1329 9.2 55059.6 -1006.9  
1330 10. 55128.6 -1030.8  
1331 8.5 55132.3 -1053.6



-10 1332 5h51m

1332 8.0 55143.3 -1051.8  
1333 9.1 55215.6 -1028.9  
1334 9.5 55219.3 -1053.5  
1335 9.2 55230.1 -1045.0  
1336 9.4 55253.9 -1056.1  
1337 9.2 55312.7 -1033.3  
1338 9.8 55315.3 -1019.9  
1339 9.4 55322.6 -1027.5  
1340 10. 55331.1 -1030.3  
1341 8.5 55350.8 -1002.0

1342 9.5 55351.0 -1037.7  
1343 8.8 55353.1 -1011.3  
1344 8.5 55410.9 -1003.7  
1345 9.0 55428.0 -1041.2  
1346 9.3 55428.8 -1001.1  
1347 9.0 55432.0 -1008.3  
1348 9.3 55434.9 -1004.7  
1349 5.6 55501.8 -1035.9  
1350 9.5 55514.2 -1016.3  
1351 9.5 55523.4 -1001.7

1352 9.0 55525.0 -1044.0  
1353 9.6 55526.6 -1001.7  
1354 9.6 55545.0 -1006.9  
1355 9.0 55546.4 -1025.6  
1356 10. 55602.4 -1057.0  
1357 9.5 55612.5 -1008.2  
1358 9.2 55630.0 -1041.2  
1359 9.5 55700.4 -1021.6  
1360 9.5 55706.8 -1001.5  
1361 8.5 55741.8 -1002.8

1362 10. 55749.1 -1029.1  
1363 9.4 55757.8 -1039.0  
1364 9.0 55805.6 -1034.1  
1365 9.0 55812.3 -1017.1  
1366 9.2 55815.5 -1059.1  
1367 9.2 55833.0 -1038.1  
1368 6.2 55836.2 -1013.9  
1369 10. 55856.0 -1021.2  
1370 9.9 55901.0 -1039.3  
1371 10. 55903.0 -1039.3

1372 9.0 55905.1 -1011.6  
1373 10. 55923.8 -1034.9  
1374 8.5 55925.3 -1052.3  
1375 10. 55948.0 -1009.8  
1376 9.5 55956.1 -1028.1  
1377 9.0 55957.2 -1015.2  
1378 10. 60016.5 -1051.7  
1379 9.5 60016.8 -1035.7  
1380 10. 60033.5 -1059.3  
1381 9.5 60049.0 -1041.9

1382 9.3 60052.0 -1038.8  
1383 9.5 60104.2 -1015.2  
1384 9.7 60105.4 -1021.5  
1385 10. 60109.9 -1049.6  
1386 7.8 60119.7 -1033.0  
1387 9.3 60120.5 -1007.3  
1388 9.5 60123.3 -1049.4  
1389 8.5 60126.5 -1025.8  
1390 9.5 60128.4 -1034.7  
1391 9.0 60156.5 -1058.4

1392 9.5 60159.4 -1022.2  
1393 9.0 60215.6 -1030.7  
1394 8.5 60221.0 -1009.7  
1395 9.0 60222.6 -1045.0  
1396 9.5 60226.9 -1006.1  
1397 10. 60233.9 -1031.2  
1398 10. 60239.4 -1055.8  
1399 9.3 60254.4 -1023.1  
1400 9.5 60256.4 -1003.5  
1401 9.0 60300.1 -1010.6

1402 9.0 60327.6 -1024.9  
1403 9.7 60348.2 -1011.6  
1404 9.0 60353.2 -1030.2  
1405 10. 60402.1 -1039.1  
1406 9.5 60409.5 -1020.8  
1407 8.5 60413.2 -1044.9  
1408 9.5 60419.2 -1046.2  
1409 9.8 60433.0 -1038.7  
1410 9.4 60441.8 -1035.1  
1411 7.3 60450.7 -1013.0

1412 10. 60451.6 -1009.4  
1413 9.0 60513.2 -1050.3  
1414 9.2 60527.7 -1028.9  
1415 10. 60535.9 -1020.1  
1416 7.8 60537.6 -1027.5  
1417 9.7 60540.4 -1018.7  
1418 9.4 60559.8 -1032.4  
1419 7.5 60600.3 -1015.7  
1420 9.8 60605.1 -1031.1  
1421 10. 60607.0 -1002.3

1422 10. 60615.8 -1051.2  
1423 7.8 60629.5 -1036.4  
1424 9.0 60631.0 -1017.6  
1425 9.9 60633.5 -1056.7  
1426 8.7 60647.7 -1046.7  
1427 9.4 60649.1 -1040.6  
1428 9.1 60701.7 -1046.5  
1429 10. 60717.3 -1031.5  
1430 10. 60719.0 -1015.0  
1431 8.5 60729.5 -1001.8

1432 10. 60748.4 -1019.6  
1433 9.8 60750.6 -1033.8  
1434 9.0 60755.5 -1011.1  
1435 10. 60757.9 -1052.3  
1436 9.7 60805.8 -1016.8  
1437 9.8 60815.4 -1013.7  
1438 9.4 60827.0 -1016.8  
1439 10. 60832.3 -1058.5  
1440 9.4 60832.9 -1037.0  
1441 9.3 60842.2 -1048.6

1442 9.6 60849.1 -1059.8  
1443 8.4 60856.7 -1047.5  
1444 9.0 60908.2 -1012.9  
1445 8.9 60909.1 -1017.2  
1446 9.9 60933.6 -1039.8  
1447 10. 60941.7 -1026.9  
1448 8.4 60958.2 -1001.2  
1449 9.6 60959.9 -1053.7  
1450 9.1 61011.4 -1052.3  
1451 10. 61020.1 -1010.6

1452 9.0 61031.6 -1040.0  
1453 9.6 61035.6 -1011.5  
1454 9.6 61041.7 -1046.0  
1455 7.0 61045.8 -1040.0  
1456 9.5 61045.8 -1005.8  
1457 10. 61052.3 -1014.5  
1458 9.4 61058.0 -1035.9  
1459 9.2 61104.6 -1025.6  
1460 9.4 61115.5 -1056.6  
1461 8.7 61116.2 -1011.1

1462 9.5 61122.8 -1055.0  
1463 9.1 61127.6 -1008.7  
1464 9.5 61141.8 -1050.3  
1465 9.6 61148.5 -1020.4  
1466 9.5 61151.8 -1010.8  
1467 8.9 61152.9 -1019.2  
1468 9.0 61157.6 -1013.1  
1469 9.8 61210.2 -1029.7  
1470 0. 61213.1 -1023.5  
1471 9.5 61230.7 -1048.9

1472 9.8 61244.7 -1011.4  
1473 9.8 61247.7 -1028.3  
1474 10. 61256.2 -1044.0  
1475 9.2 61306.0 -1040.0  
1476 8.5 61309.4 -1034.6  
1477 9.3 61313.9 -1000.4  
1478 9.9 61320.0 -1045.8  
1479 8.0 61325.5 -1040.0  
1480 9.1 61326.1 -1032.4  
1481 7.3 61328.3 -1049.2

1482 10. 61331.4 -1020.1  
1483 8.7 61333.0 -1022.0  
1484 9.2 61337.5 -1023.1  
1485 8.6 61345.9 -1001.8  
1486 9.4 61405.8 -1033.6  
1487 9.8 61406.2 -1027.0  
1488 9.0 61408.2 -1029.1  
1489 9.0 61409.3 -1031.5  
1490 10. 61431.7 -1002.5  
1491 8.5 61432.6 -1027.6

1492 9.7 61435.4 -1002.4  
1493 8.5 61455.0 -1003.5  
1494 10. 61505.1 -1009.5  
1495 9.1 61511.6 -1025.7  
1496 9.7 61532.8 -1021.8  
1497 9.5 61545.4 -1036.5  
1498 9.8 61552.2 -1030.5  
1499 9.0 61611.6 -1025.2  
1500 9.2 61615.5 -1035.9  
1501 8.9 61638.8 -1041.8

1502 10. 61639.0 -1047.4  
1503 10. 61653.3 -1032.2  
1504 8.7 61709.6 -1037.7  
1505 9.1 61711.2 -1003.7  
1506 9.8 61731.4 -1017.3  
1507 9.4 61733.8 -1020.7  
1508 8.7 61750.7 -1028.2  
1509 9.8 61756.9 -1029.1  
1510 8.8 61802.8 -1020.9  
1511 9.8 61812.1 -1042.3

1512 8.9 61823.0 -1013.1  
1513 9.4 61823.4 -1013.2  
1514 9.7 61826.6 -1025.0  
1515 7.8 61827.4 -1052.0  
1516 9.1 61834.3 -1033.5  
1517 9.5 61849.1 -1009.1  
1518 10. 61850.7 -1022.1  
1519 10. 61856.8 -1007.5  
1520 10. 61902.5 -1023.0  
1521 9.3 61908.6 -1004.3

1522 9.4 61916.7 -1047.8  
1523 9.5 61938.6 -1042.9  
1524 9.8 61941.7 -1026.8  
1525 9.5 62001.8 -1047.5  
1526 9.7 62006.5 -1020.5  
1527 9.8 62009.0 -1035.9  
1528 9.3 62012.1 -1039.2  
1529 9.8 62019.2 -1002.1  
1530 10. 62033.7 -1009.5  
1531 9.8 62035.2 -1047.8

1532 9.2 62044.6 -1040.2  
1533 9.1 62107.5 -1023.1  
1534 9.4 62108.6 -1005.6  
1535 9.4 62115.7 -1033.4  
1536 9.2 62131.5 -1002.7  
1537 9.5 62136.5 -1056.9  
1538 9.7 62136.9 -1028.7  
1539 9.8 62137.7 -1026.2  
1540 9.5 62141.2 -1059.1  
1541 9.0 62144.1 -1019.3

1542 9.5 62150.0 -1056.4  
1543 9.0 62152.8 -1008.2  
1544 9.1 62153.8 -1015.0  
1545 9.2 62154.3 -1033.9  
1546 8.5 62210.6 -1015.0  
1547 8.8 62229.4 -1020.1  
1548 9.1 62248.9 -1051.2  
1549 9.7 62254.6 -1042.4  
1550 9.1 62259.3 -1051.0  
1551 9.0 62309.6 -1043.7

1552 8.3 62318.5 -1039.2  
1553 9.3 62328.1 -1003.9  
1554 9.1 62333.7 -1025.8  
1555 8.6 62335.8 -1029.4  
1556 9.1 62351.4 -1053.0  
1557 8.6 62422.8 -1019.1  
1558 10. 62424.9 -1023.1  
1559 8.9 62432.9 -1054.9  
1560 10. 62433.2 -1043.8  
1561 10. 62445.6 -1059.0

1562 10. 62451.6 -1038.5  
1563 9.8 62455.1 -1025.0  
1564 9.8 62501.5 -1055.8  
1565 9.3 62501.7 -1014.7  
1566 9.5 62509.0 -1038.3  
1567 10. 62512.6 -1037.9  
1568 10. 62539.7 -1006.3  
1569 10. 62553.8 -1006.1  
1570 9.3 62554.4 -1051.4  
1571 9.7 62611.0 -1053.9

1572 8.8 62612.1 -1055.4  
1573 10. 62629.9 -1032.4  
1574 9.0 62642.7 -1016.2  
1575 9.2 62642.8 -1039.6  
1576 9.4 62652.5 -1018.9  
1577 9.8 62658.8 -1013.9  
1578 9.7 62702.8 -1053.9  
1579 9.4 62706.7 -1051.4  
1580 8.8 62711.0 -1037.2  
1581 9.8 62718.2 -1059.6

1582 9.6 62720.2 -1043.9  
1583 9.1 62723.3 -1051.9  
1584 9.1 62724.6 -1045.7  
1585 9.7 62725.0 -1013.9  
1586 9.7 62728.9 -1006.5  
1587 9.4 62731.0 -1020.7  
1588 9.5 62731.8 -1011.5  
1589 9.4 62737.6 -1020.7  
1590 10. 62738.2 -1047.5  
1591 9.6 62752.3 -1016.6

1592 9.4 62815.5 -1000.4  
1593 9.4 62827.6 -1010.8  
1594 9.5 62827.9 -1015.0  
1595 8.6 62834.7 -1028.3  
1596 9.5 62850.1 -1007.9  
1597 9.8 62855.4 -1032.2  
1598 8.7 62856.0 -1020.3  
1599 8.5 62901.4 -1051.7  
1600 9.8 62902.9 -1046.0  
1601 9.2 62905.9 -1012.6

1602 9.0 62923.1 -1043.2  
1603 9.5 62935.5 -1058.5  
1604 9.1 62949.3 -1051.2  
1605 9.8 63011.2 -1057.0  
1606 8.8 63013.2 -1045.8  
1607 10. 63014.0 -1014.2  
1608 9.2 63041.1 -1046.7  
1609 9.5 63048.5 -1007.8  
1610 9.0 63049.0 -1002.0  
1611 9.7 63055.7 -1038.1

1612 9.6 63058.7 -1000.7  
1613 9.7 63104.2 -1045.1  
1614 9.8 63118.6 -1024.6  
1615 9.8 63122.5 -1053.2  
1616 10. 63140.3 -1016.0  
1617 10. 63147.6 -1023.5  
1618 9.8 63148.1 -1020.4  
1619 9.8 63155.5 -1038.0  
1620 9.8 63203.7 -1016.9  
1621 10. 63213.0 -1036.0

1622 9.4 63240.9 -1037.9  
1623 9.4 63243.2 -1041.0  
1624 8.8 63245.8 -1045.7  
1625 10. 63246.4 -1036.0  
1626 9.0 63250.1 -1040.9  
1627 9.4 63252.0 -1027.2  
1628 9.2 63253.0 -1027.9  
1629 10. 63253.5 -1020.4  
1630 9.7 63309.1 -1024.1  
1631 8.4 63315.0 -1011.5

1632 9.1 63317.3 -1004.7  
1633 9.2 63326.0 -1029.6  
1634 9.4 63326.6 -1048.2  
1635 9.2 63336.2 -1046.0  
1636 9.8 63341.4 -1054.5  
1637 10. 63346.0 -1036.8  
1638 8.7 63353.6 -1041.5  
1639 9.7 63401.9 -1046.4  
1640 9.2 63404.7 -1026.3  
1641 8.8 63405.2 -1000.3

1642 9.0 63409.4 -1014.1  
1643 9.7 63428.1 -1050.0  
1644 9.3 63430.7 -1018.4  
1645 9.6 63437.2 -1036.2  
1646 9.3 63438.7 -1053.1  
1647 9.8 63439.8 -1017.9  
1648 10. 63509.8 -1012.1  
1649 9.0 63520.7 -1006.5  
1650 9.4 63521.3 -1002.8  
1651 8.9 63523.3 -1022.2

1652 9.7 63524.2 -1036.7  
1653 10. 63530.2 -1018.4  
1654 9.1 63538.5 -1009.7  
1655 7.8 63548.0 -1036.2  
1656 9.3 63550.7 -1019.4  
1657 9.5 63557.9 -1042.6  
1658 9.8 63559.2 -1002.0  
1659 9.4 63602.3 -1032.0  
1660 9.5 63604.9 -1050.1  
1661 9.5 63626.0 -1009.0

1662 9.0 63628.3 -1055.9  
1663 8.8 63630.7 -1024.5  
1664 9.5 63638.1 -1040.7  
1665 9.1 63641.6 -1010.6  
1666 9.3 63643.7 -1048.3  
1667 9.2 63649.1 -1019.9  
1668 9.8 63716.0 -1037.2  
1669 8.3 63720.9 -1051.0  
1670 9.0 63725.1 -1019.1  
1671 9.0 63725.3 -1037.8

1672 8.3 63729.6 -1059.2  
1673 10. 63747.7 -1058.6  
1674 9.0 63753.4 -1030.8  
1675 9.8 63818.2 -1052.9  
1676 10. 63827.1 -1002.2  
1677 9.2 63827.4 -1057.9  
1678 9.0 63830.1 -1041.5  
1679 9.3 63842.5 -1037.7  
1680 10. 63853.9 -1005.5  
1681 9.3 63854.7 -1036.4

1682 9.0 63855.3 -1029.5  
1683 9.1 63918.4 -1008.8  
1684 10. 63924.7 -1043.1  
1685 9.8 63930.4 -1010.7  
1686 9.5 63938.3 -1015.8  
1687 9.2 63950.5 -1019.6  
1688 9.4 63959.9 -1050.2  
1689 9.0 64006.7 -1001.0  
1690 9.0 64020.0 -1034.9  
1691 10. 64022.7 -1015.0

-10 1691 6h40m



-10 1692

6h40m

1692 9.4 64024.8 -1047.9  
1693 9.3 64027.9 -1015.3  
1694 10.1 64029.8 -1006.0  
1695 9.3 64033.3 -1051.1  
1696 10.1 64043.6 -1014.1  
1697 9.0 64045.0 -1053.1  
1698 9.4 64049.5 -1052.8  
1699 9.8 64051.5 -1040.7  
1700 9.7 64101.3 -1036.9  
1701 10.1 64102.0 -1045.5

1702 7.8 64109.3 -1056.8  
1703 10.1 64114.6 -1051.6  
1704 9.8 64130.0 -1027.4  
1705 9.8 64130.8 -1023.3  
1706 9.5 64132.4 -1057.1  
1707 9.0 64140.4 -1055.6  
1708 9.2 64143.7 -1009.8  
1709 8.3 64144.6 -1041.2  
1710 9.8 64202.3 -1026.0  
1711 9.4 64212.5 -1058.2

1712 9.3 64212.9 -1059.0  
1713 9.8 64236.4 -1047.6  
1714 10.1 64252.2 -1012.7  
1715 9.8 64259.8 -1020.2  
1716 10.1 64302.1 -1008.6  
1717 9.7 64302.9 -1033.9  
1718 9.5 64324.7 -1027.4  
1719 9.8 64339.9 -1047.4  
1720 9.3 64345.5 -1018.1  
1721 9.7 64347.3 -1010.3

1722 9.0 64349.7 -1040.7  
1723 9.7 64353.0 -1036.1  
1724 8.8 64357.8 -1031.0  
1725 10.1 64410.1 -1021.4  
1726 9.8 64411.9 -1014.9  
1727 9.3 64420.9 -1039.4  
1728 9.7 64423.6 -1056.2  
1729 8.0 64431.2 -1056.9  
1730 9.8 64438.6 -1056.7  
1731 8.9 64438.8 -1031.0

1732 9.5 64449.1 -1045.5  
1733 9.2 64455.7 -1019.6  
1734 9.4 64508.6 -1046.3  
1735 9.8 64519.7 -1015.4  
1736 9.1 64520.4 -1034.5  
1737 9.0 64532.3 -1003.6  
1738 9.3 64533.2 -1005.6  
1739 9.0 64536.9 -1005.6  
1740 9.6 64544.5 -1054.2  
1741 9.0 64545.2 -1007.1

1742 8.7 64550.2 -1055.7  
1743 9.0 64556.8 -1016.0  
1744 9.3 64607.4 -1008.9  
1745 9.8 64619.6 -1053.5  
1746 9.8 64630.9 -1003.0  
1747 10.1 64648.1 -1009.6  
1748 9.3 64654.2 -1041.3  
1749 10.1 64718.7 -1033.8  
1750 9.5 64721.1 -1042.9  
1751 9.2 64746.9 -1020.9

1752 9.5 64749.8 -1000.4  
1753 9.0 64753.3 -1054.7  
1754 9.7 64806.4 -1045.8  
1755 9.3 64812.8 -1023.5  
1756 7.8 64829.8 -1000.2  
1757 8.8 64836.0 -1035.9  
1758 8.3 64841.9 -1002.9  
1759 9.6 64848.0 -1005.2  
1760 9.6 64857.4 -1007.5  
1761 9.1 64903.7 -1025.4

1762 10.1 64910.2 -1056.7  
1763 9.8 64917.4 -1032.5  
1764 9.0 64921.1 -1000.3  
1765 9.8 64923.3 -1039.4  
1766 10.1 64925.6 -1027.2  
1767 9.0 64934.9 -1005.4  
1768 9.4 64939.3 -1043.2  
1769 9.8 64951.4 -1025.2  
1770 9.8 64953.4 -1022.4  
1771 8.5 65006.2 -1048.3

1772 9.0 65014.0 -1045.5  
1773 8.2 65016.7 -1005.4  
1774 7.2 65019.7 -1038.4  
1775 9.8 65022.1 -1024.7  
1776 9.4 65023.4 -1011.4  
1777 9.5 65031.3 -1039.4  
1778 9.2 65032.5 -1055.6  
1779 8.7 65032.6 -1045.1  
1780 9.7 65043.6 -1032.8  
1781 9.1 65043.9 -1016.1

1782 9.9 65052.0 -1040.8  
1783 9.3 65054.3 -1052.2  
1784 9.3 65057.2 -1052.9  
1785 9.8 65104.1 -1048.1  
1786 7.3 65108.4 -1035.4  
1787 6.5 65116.9 -1007.8  
1788 9.1 65128.4 -1046.0  
1789 8.7 65136.3 -1027.4  
1790 9.5 65138.0 -1008.7  
1791 8.9 65149.6 -1054.1

1792 9.3 65204.1 -1023.5  
1793 8.5 65206.0 -1002.4  
1794 9.6 65210.4 -1041.1  
1795 8.5 65216.4 -1035.5  
1796 9.3 65221.3 -1031.0  
1797 10.1 65224.8 -1015.8  
1798 9.6 65233.5 -1017.3  
1799 9.5 65237.8 -1057.5  
1800 9.6 65240.0 -1016.7  
1801 9.7 65242.5 -1031.8

1802 9.3 65254.3 -1057.3  
1803 9.5 65258.6 -1038.2  
1804 8.9 65303.6 -1004.8  
1805 10.1 65326.0 -1053.2  
1806 10.1 65326.0 -1055.7  
1807 9.8 65331.2 -1056.9  
1808 9.8 65336.8 -1003.3  
1809 9.7 65338.2 -1040.1  
1810 9.5 65339.5 -1049.3  
1811 9.5 65417.5 -1015.0

1812 9.9 65425.6 -1052.1  
1813 9.4 65429.9 -1000.1  
1814 9.3 65432.6 -1004.6  
1815 9.2 65435.6 -1031.7  
1816 9.5 65447.5 -1047.2  
1817 9.4 65449.9 -1026.4  
1818 7.0 65500.4 -1041.1  
1819 9.8 65514.6 -1023.5  
1820 9.4 65515.8 -1052.7  
1821 9.0 65519.5 -1058.0

1822 9.5 65521.0 -1004.0  
1823 9.8 65522.3 -1023.0  
1824 8.8 65523.4 -1028.2  
1825 9.6 65532.2 -1011.5  
1826 9.4 65540.5 -1030.3  
1827 9.8 65548.1 -1018.0  
1828 9.1 65553.4 -1037.1  
1829 9.5 65555.6 -1051.7  
1830 9.8 65557.3 -1007.2  
1831 9.5 65601.6 -1032.7

1832 8.7 65602.5 -1009.1  
1833 8.9 65613.0 -1054.5  
1834 8.2 65618.8 -1059.1  
1835 9.6 65624.5 -1041.3  
1836 8.4 65625.4 -1055.3  
1837 10.1 65631.7 -1013.5  
1838 9.4 65634.1 -1009.5  
1839 9.4 65634.6 -1029.7  
1840 10.1 65635.2 -1004.3  
1841 9.2 65646.7 -1018.7

1842 10.1 65650.0 -1013.7  
1843 9.5 65650.8 -1054.6  
1844 9.5 65709.2 -1017.0  
1845 9.8 65711.9 -1059.7  
1846 8.6 65717.2 -1004.0  
1847 9.6 65724.3 -1021.6  
1848 7.3 65733.6 -1014.4  
1849 9.4 65748.2 -1055.5  
1850 9.0 65801.8 -1018.0  
1851 9.8 65802.0 -1014.0

1852 9.4 65814.6 -1056.6  
1853 9.8 65817.1 -1036.9  
1854 9.5 65818.2 -1038.2  
1855 9.5 65820.2 -1057.7  
1856 9.1 65823.0 -1053.4  
1857 9.1 65837.3 -1036.8  
1858 8.8 65845.9 -1012.6  
1859 9.3 65849.5 -1056.6  
1860 9.8 65851.6 -1006.9  
1861 9.5 65857.3 -1026.3

1862 7.0 65859.6 -1026.7  
1863 9.3 65900.8 -1033.3  
1864 9.5 65901.4 -1020.7  
1865 9.2 65903.1 -1052.6  
1866 9.5 65904.6 -1034.5  
1867 9.0 65906.5 -1053.7  
1868 9.7 65927.0 -1012.3  
1869 9.5 65929.4 -1007.4  
1870 9.8 65935.7 -1058.4  
1871 8.2 65936.2 -1000.1

1872 9.6 65952.8 -1037.6  
1873 9.3 70000.4 -1007.5  
1874 10.1 70032.8 -1002.7  
1875 9.8 70034.0 -1020.5  
1876 10.1 70038.3 -1003.5  
1877 9.3 70040.7 -1055.6  
1878 9.8 70049.4 -1027.0  
1879 9.4 70100.0 -1035.4  
1880 9.0 70100.3 -1007.5  
1881 9.8 70107.4 -1055.8

1882 9.7 70108.8 -1024.0  
1883 9.8 70116.5 -1023.0  
1884 9.3 70120.4 -1011.0  
1885 8.5 70124.4 -1013.8  
1886 8.4 70125.1 -1014.4  
1887 8.7 70126.9 -1013.1  
1888 9.1 70150.1 -1004.6  
1889 9.0 70202.7 -1057.1  
1890 8.8 70213.3 -1001.9  
1891 9.8 70216.4 -1016.8

1892 6.8 70228.2 -1006.8  
1893 9.5 70228.7 -1019.0  
1894 8.9 70229.8 -1025.8  
1895 9.5 70236.0 -1048.0  
1896 9.8 70242.3 -1052.6  
1897 8.8 70248.1 -1048.3  
1898 9.4 70302.5 -1023.2  
1899 9.4 70324.1 -1046.7  
1900 8.0 70326.9 -1053.2  
1901 9.8 70327.1 -1023.7

1902 9.8 70349.6 -1019.0  
1903 9.8 70350.4 -1034.2  
1904 9.0 70409.2 -1030.1  
1905 9.8 70415.7 -1058.6  
1906 8.1 70424.3 -1018.3  
1907 9.0 70425.6 -1027.9  
1908 7.5 70428.8 -1011.6  
1909 9.8 70447.5 -1028.6  
1910 9.3 70454.0 -1016.5  
1911 9.5 70457.1 -1041.5

1912 9.8 70459.0 -1011.8  
1913 9.6 70514.1 -1020.7  
1914 9.2 70526.6 -1042.8  
1915 9.2 70526.7 -1016.2  
1916 8.8 70537.6 -1045.1  
1917 9.9 70544.8 -1007.1  
1918 9.2 70548.5 -1053.4  
1919 9.8 70548.9 -1041.9  
1920 9.8 70601.4 -1011.4  
1921 9.5 70608.8 -1058.7

1922 9.8 70616.9 -1035.5  
1923 9.5 70619.2 -1028.5  
1924 9.3 70624.1 -1024.4  
1925 9.0 70639.7 -1016.0  
1926 9.2 70641.8 -1014.8  
1927 10.1 70702.2 -1000.1  
1928 8.1 70708.2 -1011.8  
1929 9.8 70713.5 -1032.3  
1930 9.3 70720.9 -1012.3  
1931 9.8 70725.2 -1022.5

1932 9.7 70726.3 -1028.9  
1933 6.4 70735.3 -1003.9  
1934 9.0 70741.1 -1002.5  
1935 9.4 70741.4 -1002.3  
1936 9.1 70746.0 -1017.9  
1937 9.5 70757.7 -1044.4  
1938 9.5 70803.7 -1041.4  
1939 9.6 70811.3 -1016.3  
1940 9.3 70827.0 -1049.0  
1941 9.5 70827.2 -1037.7

1942 9.8 70830.5 -1031.4  
1943 8.7 70835.6 -1038.5  
1944 9.4 70836.4 -1009.5  
1945 6.3 70851.2 -1020.1  
1946 9.6 70852.2 -1025.4  
1947 9.1 70903.0 -1043.8  
1948 9.5 70903.2 -1005.0  
1949 9.5 70903.3 -1015.7  
1950 9.3 70907.2 -1052.4  
1951 9.1 70919.6 -1037.8

1952 9.6 70931.2 -1034.8  
1953 9.5 70932.8 -1028.9  
1954 9.1 70933.5 -1050.7  
1955 9.5 70934.3 -1023.6  
1956 9.7 70944.3 -1029.6  
1957 10.1 70947.1 -1025.6  
1958 9.4 70957.4 -1041.2  
1959 9.8 71005.1 -1034.0  
1960 9.7 71009.6 -1013.4  
1961 9.4 71010.2 -1050.2

-10 2051

7h20m

1962 9.5 71010.9 -1020.0  
1963 9.0 71013.8 -1000.2  
1964 9.1 71020.7 -1004.3  
1965 10.1 71023.8 -1002.7  
1966 9.5 71040.7 -1013.5  
1967 9.4 71050.2 -105.7  
1968 9.4 71103.2 -1056.8  
1969 9.2 71107.1 -1011.1  
1970 9.5 71114.1 -1056.6  
1971 8.5 71116.1 -1023.9

1972 9.4 71117.5 -1059.0  
1973 9.8 71122.3 -1011.5  
1974 8.8 71124.0 -1043.2  
1975 9.7 71137.2 -1020.4  
1976 8.7 71141.1 -1051.9  
1977 9.2 71205.9 -1051.1  
1978 9.3 71209.6 -1013.2  
1979 9.3 71209.7 -1023.8  
1980 9.5 71215.3 -1006.8  
1981 9.8 71221.0 -1055.0

1982 9.5 71221.9 -1027.2  
1983 8.9 71222.5 -1039.0  
1984 9.0 71229.3 -1033.6  
1985 8.7 71231.8 -1015.2  
1986 9.2 71233.6 -1056.3  
1987 9.4 71234.6 -1017.7  
1988 9.3 71234.6 -1013.1  
1989 9.7 71241.4 -1010.0  
1990 9.4 71301.2 -1059.1  
1991 9.0 71304.0 -1002.3

1992 9.5 71319.5 -1042.0  
1993 9.7 71323.6 -1010.4  
1994 9.5 71325.4 -1049.8  
1995 9.4 71336.5 -1037.5  
1996 8.5 71340.7 -1058.6  
1997 9.4 71341.5 -1050.5  
1998 9.0 71344.7 -1041.7  
1999 9.1 71345.7 -1017.9  
2000 9.5 71351.4 -1012.9  
2001 9.3 71355.1 -1020.4

2002 9.2 71412.3 -1036.8  
2003 9.7 71412.3 -1018.6  
2004 9.5 71421.3 -1026.2  
2005 9.1 71436.0 -1004.2  
2006 10.1 71442.6 -1001.4  
2007 9.3 71443.4 -1002.3  
2008 9.8 71458.5 -1054.1  
2009 9.2 71459.7 -1028.1  
2010 9.3 71503.1 -1007.7  
2011 9.3 71503.1 -1055.2

2012 9.4 71504.6 -1017.0  
2013 9.2 71524.0 -1050.7  
2014 9.8 71530.0 -1001.1  
2015 9.0 71531.7 -1033.1  
2016 9.7 71540.2 -1057.2  
2017 9.6 71543.2 -1058.7  
2018 9.1 71600.3 -1011.9  
2019 8.9 71603.2 -1016.0  
2020 9.7 71617.1 -1034.4  
2021 8.7 71620.8 -1048.7

2022 9.2 71624.1 -1048.6  
2023 9.9 71635.9 -1015.9  
2024 9.4 71640.7 -1003.0  
2025 9.2 71642.7 -1005.2  
2026 8.9 71655.6 -1040.5  
2027 10.1 71658.0 -1052.7  
2028 9.3 71710.0 -1011.9  
2029 9.5 71724.1 -1040.4  
2030 10.1 71729.1 -1039.3  
2031 9.3 71730.2 -1042.3

2032 9.5 71732.5 -1052.6  
2033 9.4 71823.7 -1045.6  
2034 9.8 71840.8 -1008.0  
2035 8.9 71845.9 -1028.7  
2036 9.5 71902.4 -1012.7  
2037 8.6 71904.0 -1026.1  
2038 8.4 71917.0 -1015.8  
2039 9.8 71921.3 -1029.8  
2040 8.6 71937.7 -1039.4  
2041 9.8 71937.8 -1025.2

2042 9.8 71944.8 -1003.8  
2043 9.3 71947.6 -1046.5  
2044 9.6 71949.7 -1011.7  
2045 9.5 71952.1 -1032.9  
2046 8.7 71954.0 -1045.9  
2047 8.7 71954.1 -1013.0  
2048 9.7 71954.8 -1015.7  
2049 9.7 71955.3 -1008.4  
2050 9.8 72008.8 -1028.0  
2051 9.8 72011.0 -1016.7



-10 2052 7h20m

2052 9.8 72018.4 -1022.2  
2053 9.4 72028.9 -1047.2  
2054 9.3 72035.2 -1033.7  
2055 8.9 72047.6 -1054.8  
2056 9.8 72048.9 -1023.3  
2057 9.8 72111.3 -1027.4  
2058 9.5 72113.6 -1037.8  
2059 8.8 72118.1 -1039.2  
2060 9.5 72122.0 -1055.7  
2061 8.0 72126.7 -1058.1  
  
2062 9.8 72156.4 -1045.4  
2063 9.7 72207.2 -1036.8  
2064 9.4 72215.5 -1006.2  
2065 9.0 72218.7 -1045.5  
2066 9.5 72224.8 -1019.0  
2067 5.5 72229.5 -1001.9  
2068 9.8 72234.9 -1005.7  
2069 9.7 72237.6 -1000.7  
2070 9.2 72244.5 -1014.8  
2071 9.5 72302.1 -1019.4  
  
2072 8.6 72306.3 -1057.0  
2073 9.3 72308.7 -1057.4  
2074 9.3 72325.7 -1046.4  
2075 9.8 72336.2 -1041.5  
2076 9.3 72339.7 -1043.1  
2077 9.7 72346.5 -1053.8  
2078 9.2 72356.6 -1046.9  
2079 6.7 72400.4 -1015.0  
2080 9.3 72405.0 -1002.5  
2081 9.2 72407.8 -1001.3  
  
2082 9.3 72413.4 -1039.8  
2083 9.8 72420.9 -1021.7  
2084 9.8 72426.1 -1053.8  
2085 9.4 72431.7 -1025.3  
2086 9.5 72456.5 -1019.2  
2087 9.3 72504.7 -1011.7  
2088 9.5 72509.4 -1050.2  
2089 9.5 72517.3 -1050.6  
2090 9.8 72521.8 -1052.6  
2091 9.5 72525.2 -1018.0  
  
2092 8.4 72525.8 -1011.8  
2093 8.7 72554.5 -1053.0  
2094 9.5 72556.6 -1037.2  
2095 9.6 72613.9 -1024.5  
2096 9.3 72616.5 -1034.4  
2097 9.5 72620.7 -1038.9  
2098 9.5 72622.4 -1049.0  
2099 9.3 72624.0 -1043.0  
2100 8.8 72624.3 -1010.4  
2101 9.3 72627.9 -1050.1  
  
2102 10. 72644.5 -1016.7  
2103 9.4 72650.2 -1014.0  
2104 8.5 72710.9 -1044.3  
2105 8.1 72717.1 -1056.0  
2106 9.5 72719.0 -1030.8  
2107 9.5 72730.8 -1020.0  
2108 9.1 72741.9 -1002.0  
2109 9.5 72749.8 -1055.3  
2110 9.4 72752.2 -1031.8  
2111 8.8 72754.2 -1048.6  
  
2112 9.6 72757.3 -1057.2  
2113 9.0 72805.1 -1029.5  
2114 8.4 72805.8 -1017.8  
2115 9.4 72806.8 -1029.5  
2116 9.3 72809.7 -1004.2  
2117 9.3 72826.7 -1027.3  
2118 9.4 72826.9 -1048.0  
2119 9.8 72838.8 -1029.1  
2120 9.7 72847.8 -1012.6  
2121 9.8 72854.3 -1052.8  
  
2122 9.8 72902.9 -1015.8  
2123 9.3 72918.1 -1034.8  
2124 9.2 72927.2 -1025.3  
2125 9.3 72946.4 -1047.5  
2126 8.1 72948.6 -1019.3  
2127 9.2 73000.2 -1007.4  
2128 9.3 73001.9 -1003.0  
2129 9.2 73003.3 -1020.2  
2130 8.9 73014.7 -1027.4  
2131 9.2 73033.6 -1049.7  
  
2132 9.6 73035.6 -1013.7  
2133 9.4 73047.7 -1038.7  
2134 9.4 73056.2 -1053.3  
2135 9.5 73057.1 -1033.4  
2136 9.8 73059.7 -1052.0  
2137 7.1 73119.1 -1017.5  
2138 9.8 73138.8 -1047.8  
2139 9.4 73144.2 -1030.1  
2140 9.1 73150.7 -1053.1  
2141 8.3 73151.8 -1013.3

2142 9.2 73153.9 -1019.1  
2143 10. 73219.0 -1003.5  
2144 9.5 73222.0 -1036.4  
2145 9.8 73240.9 -1009.8  
2146 9.7 73242.1 -1008.1  
2147 9.8 73243.8 -1044.9  
2148 9.4 73249.1 -1007.9  
2149 9.1 73253.4 -1018.3  
2150 9.5 73330.7 -1058.8  
2151 9.5 73339.4 -1009.8  
  
2152 9.5 73346.2 -1015.1  
2153 9.1 73353.1 -1024.9  
2154 9.3 73353.3 -1014.9  
2155 9.1 73354.6 -1028.4  
2156 9.6 73401.2 -1027.9  
2157 9.8 73404.1 -1054.8  
2158 9.4 73416.1 -1001.8  
2159 8.7 73417.7 -1003.8  
2160 9.8 73427.4 -1037.3  
2161 9.6 73429.6 -1027.6  
  
2162 9.0 73437.8 -1023.2  
2163 9.6 73438.3 -1025.4  
2164 9.9 73447.2 -1055.3  
2165 8.2 73449.5 -1027.3  
2166 8.8 73454.4 -1055.2  
2167 8.8 73457.3 -1004.0  
2168 9.2 73501.6 -1024.1  
2169 9.3 73502.0 -1000.1  
2170 9.3 73518.7 -1057.6  
2171 8.6 73525.4 -1032.6  
  
2172 8.4 73528.2 -1036.1  
2173 9.8 73545.6 -1036.7  
2174 9.9 73554.4 -1001.7  
2175 8.9 73603.5 -1033.4  
2176 9.1 73605.3 -1018.1  
2177 8.8 73614.2 -1026.2  
2178 9.1 73621.5 -1043.6  
2179 9.4 73622.7 -1055.9  
2180 10. 73624.8 -1017.0  
2181 9.9 73626.5 -1048.5  
  
2182 9.2 73637.4 -1001.6  
2183 9.5 73642.4 -1032.2  
2184 9.4 73643.5 -1037.2  
2185 9.3 73644.2 -1040.1  
2186 9.0 73702.0 -1025.7  
2187 8.8 73703.5 -1043.6  
2188 9.5 73703.9 -1023.4  
2189 9.2 73709.5 -1011.8  
2190 8.3 73710.4 -1058.2  
2191 8.7 73719.3 -1023.9  
  
2192 9.5 73748.2 -1022.9  
2193 9.8 73756.7 -1018.3  
2194 9.8 73800.4 -1012.0  
2195 9.8 73801.0 -1021.9  
2196 8.7 73804.9 -1025.3  
2197 9.7 73817.1 -1011.9  
2198 8.2 73820.9 -1028.5  
2199 9.3 73822.8 -1039.4  
2200 9.8 73824.3 -1047.3  
2201 8.7 73825.5 -1031.2  
  
2202 9.5 73838.2 -1025.1  
2203 9.8 73844.8 -1056.3  
2204 9.7 73846.6 -1038.6  
2205 9.7 73847.4 -1036.5  
2206 9.8 73854.3 -1044.6  
2207 9.5 73856.9 -1052.5  
2208 9.5 73904.9 -1012.2  
2209 9.6 73905.4 -1020.7  
2210 9.4 73911.1 -1034.6  
2211 9.7 73919.9 -1004.4  
  
2212 9.8 73930.0 -1037.0  
2213 9.1 73940.2 -1045.3  
2214 9.5 73949.3 -1050.3  
2215 9.3 73957.9 -1006.5  
2216 9.2 74001.7 -1039.2  
2217 9.8 74002.6 -1055.0  
2218 8.8 74012.2 -1031.8  
2219 9.8 74018.5 -1035.5  
2220 9.2 74018.6 -1023.3  
2221 9.7 74020.7 -1010.7  
  
2222 9.3 74036.5 -1000.2  
2223 9.5 74047.8 -1054.6  
2224 10. 74051.1 -1008.0  
2225 9.2 74103.8 -1058.6  
2226 9.5 74111.6 -1054.7  
2227 9.3 74121.0 -1040.1  
2228 8.5 74127.1 -1038.6  
2229 8.9 74136.5 -1019.1  
2230 9.5 74137.2 -1020.0  
2231 9.3 74141.9 -1031.7

2232 9.3 74148.4 -1037.3  
2233 9.1 74150.5 -1005.6  
2234 9.5 74201.1 -1056.7  
2235 9.3 74205.2 -1005.5  
2236 8.8 74210.3 -1045.4  
2237 6.8 74214.9 -1049.3  
2238 9.3 74216.6 -1059.4  
2239 7.0 74219.2 -1008.2  
2240 9.5 74224.0 -1034.5  
2241 9.5 74244.3 -1032.6  
  
2242 9.5 74249.5 -1021.1  
2243 9.4 74250.7 -1036.5  
2244 9.5 74259.1 -1013.0  
2245 9.3 74307.0 -1017.5  
2246 9.4 74310.5 -1058.8  
2247 9.2 74314.1 -1020.9  
2248 9.6 74315.0 -1046.2  
2249 9.3 74349.8 -1058.5  
2250 9.8 74353.4 -1059.9  
2251 9.7 74356.4 -1031.0  
  
2252 9.5 74400.3 -1038.8  
2253 6.0 74402.7 -1045.7  
2254 9.7 74404.4 -1002.7  
2255 9.2 74408.2 -1044.8  
2256 9.1 74415.0 -1021.0  
2257 8.0 74426.5 -1048.1  
2258 9.3 74435.8 -1000.2  
2259 9.0 74442.1 -1000.0  
2260 9.5 74455.1 -1004.8  
2261 9.5 74457.9 -1023.7  
  
2262 9.9 74458.3 -1006.7  
2263 7.8 74503.8 -1039.4  
2264 9.3 74514.8 -1028.7  
2265 9.0 74514.9 -1048.3  
2266 8.7 74521.9 -1023.6  
2267 9.8 74524.3 -1047.8  
2268 9.9 74533.5 -1057.5  
2269 9.2 74535.9 -1012.3  
2270 9.8 74536.4 -1034.2  
2271 10. 74546.1 -1029.1  
  
2272 9.5 74558.7 -1001.4  
2273 9.2 74600.6 -1022.2  
2274 9.8 74644.0 -1013.3  
2275 9.7 74652.8 -1002.5  
2276 9.6 74657.8 -1006.1  
2277 9.4 74658.0 -1013.6  
2278 7.7 74708.6 -1011.3  
2279 8.5 74709.2 -1046.5  
2280 9.6 74721.2 -1028.0  
2281 9.4 74746.3 -1002.5  
  
2282 9.5 74746.6 -1058.1  
2283 8.7 74748.1 -1004.5  
2284 8.3 74755.6 -1042.0  
2285 8.4 74803.9 -1049.1  
2286 9.6 74807.4 -1021.5  
2287 9.5 74815.7 -1038.2  
2288 9.5 74818.5 -1039.7  
2289 7.8 74824.3 -1046.4  
2290 9.4 74829.1 -1035.2  
2291 9.5 74834.6 -1049.8  
  
2292 9.5 74836.3 -1018.8  
2293 9.5 74836.9 -1006.7  
2294 7.5 74838.7 -1016.8  
2295 8.3 74904.9 -1017.7  
2296 9.0 74916.3 -1010.9  
2297 9.1 74935.8 -1040.5  
2298 9.6 74936.5 -1014.3  
2299 8.8 74952.5 -1028.7  
2300 9.1 74952.7 -1013.1  
2301 9.8 75001.8 -1042.8  
  
2302 9.1 75010.7 -1033.9  
2303 9.4 75027.2 -1014.0  
2304 8.3 75031.5 -1033.1  
2305 9.4 75036.5 -1038.0  
2306 9.3 75038.4 -1047.1  
2307 9.2 75040.7 -1034.5  
2308 9.5 75104.0 -1009.4  
2309 8.0 75111.1 -1029.8  
2310 10. 75112.7 -1001.0  
2311 9.7 75124.2 -1058.5  
  
2312 9.6 75130.8 -1034.7  
2313 8.7 75155.4 -1033.2  
2314 8.7 75156.1 -1039.8  
2315 8.8 75204.4 -1050.9  
2316 9.5 75209.3 -1016.9  
2317 9.2 75215.1 -1008.1  
2318 8.9 75226.4 -1049.9  
2319 8.8 75229.6 -1005.3  
2320 9.6 75231.0 -1015.6  
2321 9.8 75246.1 -1052.5

2322 9.4 75251.9 -1004.4  
2323 9.4 75301.4 -1023.4  
2324 9.5 75302.7 -1052.5  
2325 9.5 75306.7 -1010.1  
2326 9.8 75310.9 -1023.5  
2327 9.4 75312.2 -1043.8  
2328 9.5 75316.1 -1055.0  
2329 8.8 75319.7 -1001.1  
2330 9.0 75337.6 -1038.9  
2331 9.5 75340.8 -1005.0  
  
2332 9.0 75345.6 -1046.3  
2333 9.8 75345.9 -1006.5  
2334 9.7 75402.1 -1012.6  
2335 9.5 75415.0 -1028.1  
2336 9.5 75425.0 -1015.4  
2337 9.3 75426.8 -1016.5  
2338 9.8 75433.6 -1055.5  
2339 9.5 75439.9 -1040.4  
2340 9.8 75447.9 -1009.2  
2341 9.4 75450.3 -1041.6  
  
2342 8.8 75458.8 -1022.9  
2343 9.7 75504.9 -1032.0  
2344 9.5 75508.8 -1010.6  
2345 9.8 75514.4 -1010.7  
2346 9.4 75517.8 -1023.5  
2347 9.7 75548.9 -1047.1  
2348 9.8 75549.2 -1000.5  
2349 9.3 75550.6 -1017.9  
2350 9.4 75555.0 -1003.2  
2351 9.0 75555.7 -1042.3  
  
2352 9.3 75600.2 -1041.0  
2353 9.8 75610.8 -1003.7  
2354 9.4 75622.8 -1043.6  
2355 9.0 75627.0 -1005.5  
2356 8.5 75640.5 -1041.0  
2357 8.9 75648.6 -1035.3  
2358 9.3 75650.5 -1037.6  
2359 9.5 75652.5 -1029.7  
2360 8.6 75657.6 -1005.1  
2361 9.4 75711.7 -1016.8  
  
2362 7.3 75712.2 -1001.6  
2363 9.7 75717.0 -1049.4  
2364 9.5 75717.9 -1054.2  
2365 9.1 75728.6 -1006.4  
2366 8.7 75736.4 -1014.0  
2367 9.5 75740.7 -1029.8  
2368 10. 75748.8 -1006.4  
2369 9.4 75753.4 -1045.9  
2370 9.0 75806.9 -1002.2  
2371 9.5 75833.0 -1006.2  
  
2372 8.9 75835.7 -1012.6  
2373 9.5 75841.9 -1049.6  
2374 9.3 75843.0 -1024.3  
2375 8.6 75844.3 -1054.9  
2376 9.4 75846.5 -1035.8  
2377 8.2 75848.0 -1015.5  
2378 10. 75905.6 -1020.5  
2379 9.4 75909.4 -1042.0  
2380 9.8 75916.8 -1012.0  
2381 9.5 75917.2 -1006.5  
  
2382 9.1 75937.7 -1034.1  
2383 9.5 75938.2 -1059.6  
2384 9.5 75941.4 -1018.7  
2385 9.0 75952.4 -1021.1  
2386 9.0 80004.1 -1003.2  
2387 9.8 80009.2 -1010.1  
2388 9.8 80039.1 -1052.1  
2389 9.4 80039.7 -1055.3  
2390 9.5 80051.2 -1009.9  
2391 9.5 80112.4 -1012.6  
  
2392 9.5 80115.9 -1054.5  
2393 9.8 80120.8 -1025.1  
2394 9.8 80126.3 -1007.5  
2395 9.0 80132.2 -1052.3  
2396 9.3 80144.1 -1022.7  
2397 9.4 80145.7 -1022.3  
2398 8.2 80156.2 -1047.3  
2399 9.4 80158.3 -1043.3  
2400 6.6 80203.9 -1055.1  
2401 9.3 80227.8 -1034.1  
  
2402 9.5 80232.5 -1056.8  
2403 9.5 80242.9 -1056.3  
2404 9.2 80307.3 -1043.1  
2405 9.4 80315.4 -1021.4  
2406 9.8 80335.3 -1005.1  
2407 9.7 80349.3 -1025.8  
2408 9.3 80404.7 -1017.6  
2409 9.1 80405.9 -1011.2  
2410 9.5 80405.9 -1005.0  
2411 9.7 80409.6 -1041.9

-10 2411 8h04m



-10 2412 8h04m

2412 9.1 80411.2 -1031.5  
2413 9.1 80419.1 -1050.6  
2414 9.4 80425.3 -1026.2  
2415 9.5 80438.4 -1033.6  
2416 9.3 80440.3 -1008.9  
2417 9.8 80447.0 -1001.5  
2418 9.0 80449.1 -1018.3  
2419 8.8 80451.8 -1054.9  
2420 9.5 80507.4 -1045.0  
2421 9.0 80511.1 -1016.4  
  
2422 7.8 80529.0 -1024.2  
2423 9.4 80542.9 -1031.6  
2424 8.9 80544.2 -1006.8  
2425 9.4 80556.5 -1000.2  
2426 9.3 80558.4 -1040.2  
2427 9.3 80608.9 -1011.2  
2428 9.1 80612.4 -1034.4  
2429 9.4 80619.7 -1002.0  
2430 9.5 80634.5 -1051.1  
2431 8.9 80635.8 -1032.0  
  
2432 9.2 80639.4 -1035.0  
2433 9.4 80652.1 -1001.1  
2434 10. 80734.4 -1019.0  
2435 9.1 80750.3 -1001.3  
2436 9.0 80804.7 -1019.2  
2437 8.9 80810.2 -1005.9  
2438 9.5 80813.4 -1037.5  
2439 8.0 80832.1 -1051.0  
2440 9.4 80832.9 -1039.9  
2441 9.3 80838.7 -1048.6  
  
2442 9.3 80843.0 -1041.7  
2443 8.7 80849.1 -1000.4  
2444 10. 80859.9 -1056.9  
2445 9.5 80900.2 -1017.6  
2446 9.7 80902.9 -1002.2  
2447 9.2 80933.8 -1017.5  
2448 9.7 81005.3 -1041.0  
2449 9.3 81006.1 -1042.9  
2450 9.2 81006.7 -1047.5  
2451 7.7 81010.9 -1025.5  
  
2452 9.0 81014.1 -1013.3  
2453 8.0 81018.5 -1001.4  
2454 9.4 81027.1 -1058.1  
2455 9.0 81027.7 -1028.9  
2456 9.3 81032.1 -1033.6  
2457 9.5 81050.5 -1016.7  
2458 9.8 81103.8 -1046.4  
2459 9.5 81110.2 -1000.3  
2460 9.5 81111.3 -1041.8  
2461 8.7 81111.7 -1002.8  
  
2462 9.5 81114.9 -1049.9  
2463 10. 81115.3 -1052.9  
2464 9.3 81120.0 -1032.2  
2465 10. 81122.8 -1051.9  
2466 9.4 81123.2 -1055.5  
2467 9.7 81127.7 -1032.4  
2468 9.1 81129.8 -1002.2  
2469 10. 81147.5 -1000.3  
2470 9.7 81148.3 -1023.2  
2471 9.4 81149.2 -1027.0  
  
2472 9.2 81201.5 -1012.1  
2473 9.8 81201.5 -1010.4  
2474 9.4 81223.7 -1034.4  
2475 9.8 81233.1 -1035.2  
2476 9.8 81252.5 -1014.0  
2477 8.8 81313.1 -1052.6  
2478 9.2 81314.1 -1000.1  
2479 9.5 81323.3 -1018.0  
2480 9.0 81323.7 -1052.5  
2481 9.4 81323.7 -1043.5  
  
2482 9.3 81323.8 -1018.8  
2483 8.9 81325.2 -1014.5  
2484 9.4 81348.3 -1027.7  
2485 9.7 81405.6 -1039.2  
2486 9.6 81424.5 -1034.6  
2487 9.3 81429.9 -1051.5  
2488 9.2 81435.0 -1002.3  
2489 9.8 81436.0 -1004.5  
2490 6.8 81441.8 -1035.3  
2491 6.9 81501.7 -1017.4  
  
2492 9.5 81519.1 -1054.8  
2493 8.9 81520.0 -1015.0  
2494 9.3 81530.0 -1059.9  
2495 8.9 81539.2 -1013.6  
2496 9.1 81557.1 -1018.4  
2497 9.3 81608.0 -1032.3  
2498 8.9 81619.6 -1031.8  
2499 9.3 81621.9 -1019.7  
2500 9.5 81628.3 -1047.8  
2501 9.3 81647.7 -1011.9

2502 9.0 81717.3 -1058.9  
2503 8.8 81718.4 -1042.4  
2504 9.4 81725.2 -1051.8  
2505 9.4 81733.4 -1016.5  
2506 7.8 81733.8 -1002.7  
2507 9.2 81738.2 -1015.9  
2508 8.3 81752.6 -1016.9  
2509 9.1 81820.0 -1010.9  
2510 10. 81833.1 -1001.2  
2511 9.0 81836.6 -1018.8  
  
2512 9.0 81846.7 -1002.7  
2513 9.3 81855.1 -1029.8  
2514 6.3 81904.4 -1002.6  
2515 9.1 81917.0 -1008.4  
2516 9.3 81919.7 -1034.5  
2517 9.7 81937.4 -1054.3  
2518 9.0 81946.7 -1032.6  
2519 9.7 81947.5 -1018.2  
2520 9.4 81954.6 -1041.6  
2521 9.0 81955.6 -1025.9  
  
2522 9.2 81955.7 -1004.1  
2523 9.8 82007.5 -1055.2  
2524 9.5 82008.9 -1048.4  
2525 9.2 82010.4 -1053.7  
2526 9.1 82020.5 -1055.8  
2527 10. 82029.2 -1002.6  
2528 9.8 82029.6 -1045.5  
2529 9.3 82029.8 -1027.5  
2530 9.2 82037.0 -1051.9  
2531 9.1 82105.0 -1059.5  
  
2532 9.8 82115.4 -1017.1  
2533 9.5 82115.9 -1050.4  
2534 9.8 82116.5 -1012.2  
2535 9.1 82117.3 -1054.9  
2536 9.3 82117.5 -1035.1  
2537 10. 82125.9 -1051.8  
2538 9.4 82130.0 -1004.4  
2539 8.7 82137.5 -1054.5  
2540 9.7 82200.0 -1036.6  
2541 10. 82213.1 -1052.8  
  
2542 9.2 82217.8 -1010.2  
2543 9.8 82242.0 -1017.7  
2544 9.1 82246.5 -1022.3  
2545 10. 82255.0 -1016.6  
2546 8.1 82323.9 -1008.1  
2547 9.3 82325.9 -1023.8  
2548 9.5 82334.3 -1035.3  
2549 8.7 82335.4 -1045.9  
2550 8.1 82415.1 -1027.0  
2551 8.9 82422.1 -1058.6  
  
2552 9.8 82425.2 -1005.6  
2553 9.2 82429.7 -1049.6  
2554 9.2 82432.5 -1041.6  
2555 9.9 82513.6 -1021.8  
2556 9.4 82517.3 -1001.0  
2557 9.3 82527.5 -1004.7  
2558 8.1 82534.3 -1055.0  
2559 9.5 82551.4 -1031.2  
2560 9.4 82555.8 -1017.4  
2561 9.7 82603.3 -1053.1  
  
2562 9.4 82612.9 -1002.2  
2563 9.3 82614.9 -1002.2  
2564 9.9 82634.3 -1047.1  
2565 8.0 82654.5 -1028.5  
2566 9.0 82658.6 -1010.8  
2567 9.5 82710.0 -1002.9  
2568 10. 82716.5 -1009.8  
2569 10. 82741.9 -1004.5  
2570 8.5 82759.2 -1026.1  
2571 9.5 82818.0 -1047.5  
  
2572 8.4 82838.9 -1017.4  
2573 9.5 82844.5 -1050.9  
2574 9.5 82851.8 -1031.8  
2575 7.7 82856.5 -1047.5  
2576 9.2 82916.7 -1004.4  
2577 9.5 82926.7 -1034.1  
2578 7.8 82934.5 -1003.8  
2579 9.2 82946.2 -1051.7  
2580 10. 83012.9 -1015.1  
2581 9.3 83019.7 -1038.9  
  
2582 9.5 83032.8 -1009.4  
2583 8.5 83040.2 -1026.6  
2584 10. 83109.6 -1002.4  
2585 9.0 83111.4 -1037.5  
2586 9.5 83124.5 -1016.5  
2587 9.6 83127.9 -1051.6  
2588 7.9 83129.1 -1019.0  
2589 9.5 83131.6 -1023.5  
2590 10. 83149.3 -1015.2  
2591 9.7 83209.7 -1030.4

2592 9.8 83237.1 -1054.4  
2593 9.5 83246.3 -1025.5  
2594 9.6 83252.6 -1021.5  
2595 8.7 83323.8 -1027.3  
2596 9.3 83335.0 -1053.2  
2597 9.6 83341.2 -1020.0  
2598 9.1 83343.5 -1013.8  
2599 9.3 83346.7 -1058.3  
2600 9.3 83406.8 -1037.2  
2601 9.1 83407.6 -1039.0  
  
2602 9.6 83408.2 -1053.3  
2603 9.3 83410.3 -1033.4  
2604 9.5 83417.0 -1035.9  
2605 10. 83419.2 -1011.8  
2606 9.4 83422.1 -1035.0  
2607 9.5 83422.7 -1048.5  
2608 9.5 83434.9 -1019.0  
2609 9.4 83440.3 -1033.4  
2610 9.2 83521.6 -1013.1  
2611 8.3 83531.1 -1030.3  
  
2612 9.1 83549.4 -1054.2  
2613 9.3 83551.8 -1029.2  
2614 9.4 83552.2 -1021.6  
2615 9.3 83557.4 -1029.6  
2616 9.6 83611.1 -1057.9  
2617 9.5 83615.0 -1048.0  
2618 9.5 83640.9 -1020.0  
2619 8.5 83702.4 -1002.2  
2620 9.8 83703.6 -1057.1  
2621 9.8 83707.7 -1054.9  
  
2622 8.8 83711.6 -1035.4  
2623 9.8 83712.8 -1022.5  
2624 10. 83721.2 -1011.5  
2625 9.6 83739.7 -1027.4  
2626 9.2 83753.3 -1013.4  
2627 9.3 83821.1 -1042.1  
2628 10. 83833.4 -1043.4  
2629 9.7 83844.1 -1013.0  
2630 9.2 83847.6 -1035.9  
2631 9.3 83904.1 -1052.0  
  
2632 9.7 83904.3 -1042.8  
2633 9.5 83905.1 -1044.8  
2634 6.0 83909.7 -1028.8  
2635 6.9 83911.2 -1018.1  
2636 8.3 83918.6 -1051.9  
2637 9.1 83920.4 -1008.1  
2638 9.3 83930.4 -1025.2  
2639 9.3 83932.0 -1011.9  
2640 9.3 83941.6 -1024.8  
2641 8.6 84009.1 -1014.9  
  
2642 8.9 84009.4 -1021.3  
2643 9.8 84033.5 -1042.1  
2644 9.1 84058.1 -1048.9  
2645 9.9 84120.4 -1037.3  
2646 9.2 84124.1 -1041.0  
2647 10. 84140.6 -1044.2  
2648 9.8 84201.7 -1027.6  
2649 9.4 84206.5 -1049.1  
2650 8.5 84207.5 -1019.9  
2651 7.0 84224.2 -1021.2  
  
2652 9.5 84226.6 -1014.2  
2653 9.5 84228.0 -1014.6  
2654 7.5 84229.6 -1029.2  
2655 9.7 84251.1 -1059.0  
2656 9.7 84302.0 -1020.9  
2657 9.5 84312.4 -1018.6  
2658 8.4 84317.7 -1036.2  
2659 9.3 84322.3 -1049.1  
2660 9.3 84357.9 -1014.2  
2661 9.6 84404.6 -1013.6  
  
2662 10. 84407.6 -1027.6  
2663 9.2 84408.6 -1014.7  
2664 9.5 84415.3 -1041.9  
2665 8.9 84436.1 -1054.7  
2666 9.2 84438.9 -1006.3  
2667 9.4 84444.0 -1014.9  
2668 8.4 84453.0 -1036.2  
2669 9.8 84503.1 -1013.5  
2670 9.1 84512.3 -1006.7  
2671 9.8 84517.3 -1026.7  
  
2672 8.7 84519.1 -1042.9  
2673 9.3 84519.6 -1010.0  
2674 10. 84543.0 -1055.0  
2675 8.8 84557.7 -1059.6  
2676 9.3 84603.7 -1046.1  
2677 8.9 84616.4 -1040.7  
2678 7.2 84631.8 -1050.7  
2679 9.6 84637.5 -1001.3  
2680 9.8 84638.5 -1023.4  
2681 9.3 84653.2 -1007.6

2682 9.3 84655.8 -1010.4  
2683 9.4 84702.2 -1038.0  
2684 9.8 84702.7 -1019.0  
2685 7.9 84710.3 -1022.5  
2686 9.8 84716.6 -1044.9  
2687 9.2 84738.4 -1001.7  
2688 6.8 84741.1 -1049.4  
2689 9.3 84751.6 -1029.7  
2690 7.9 84801.0 -1026.1  
2691 9.0 84816.8 -1050.2  
  
2692 7.1 84820.2 -1049.0  
2693 8.4 84902.2 -1020.4  
2694 8.1 84907.0 -1035.9  
2695 10. 84918.9 -1017.3  
2696 9.3 84920.5 -1040.7  
2697 8.1 84934.7 -1032.8  
2698 9.5 84937.2 -1041.2  
2699 8.9 84948.7 -1033.1  
2700 9.6 85011.9 -1025.7  
2701 9.3 85023.4 -1005.2  
  
2702 9.6 85025.5 -1033.9  
2703 9.4 85050.7 -1050.0  
2704 9.8 85055.1 -1001.5  
2705 9.7 85059.3 -1035.9  
2706 10. 85108.2 -1001.3  
2707 8.9 85108.4 -1025.0  
2708 9.3 85123.2 -1055.0  
2709 8.3 85139.9 -1046.2  
2710 9.3 85141.6 -1034.2  
2711 9.5 85154.8 -1020.4  
  
2712 9.6 85257.5 -1025.0  
2713 9.6 85303.1 -1023.0  
2714 9.6 85311.3 -1036.9  
2715 9.5 85331.6 -1048.5  
2716 8.9 85341.6 -1034.4  
2717 9.4 85354.2 -1008.3  
2718 9.5 85356.0 -1009.9  
2719 10. 85415.2 -1021.2  
2720 8.0 85427.4 -1040.2  
2721 9.5 85442.3 -1016.6  
  
2722 8.5 85444.7 -1041.6  
2723 9.7 85457.4 -1032.1  
2724 8.4 85522.5 -1019.9  
2725 9.2 85545.2 -1013.0  
2726 10. 85555.6 -1051.3  
2727 9.7 85606.2 -1024.6  
2728 9.4 85610.1 -1001.6  
2729 9.2 85625.9 -1002.0  
2730 9.8 85645.2 -1023.3  
2731 9.5 85716.0 -1010.8  
  
2732 8.4 85717.9 -1005.2  
2733 10. 85735.2 -1013.0  
2734 9.1 85743.9 -1009.3  
2735 9.9 85755.6 -1023.1  
2736 8.5 85803.5 -1048.3  
2737 9.6 85806.9 -1051.0  
2738 9.3 85829.9 -1011.6  
2739 9.8 85847.9 -1027.3  
2740 9.2 85900.4 -1012.9  
2741 7.9 85902.0 -1045.8  
  
2742 9.2 85909.2 -1016.9  
2743 9.3 85929.8 -1057.8  
2744 9.8 85933.0 -1059.9  
2745 9.4 90003.7 -1053.7  
2746 8.4 90018.0 -1009.1  
2747 9.2 90020.8 -1032.0  
2748 9.7 90021.8 -1035.4  
2749 9.8 90034.3 -1008.7  
2750 9.3 90050.8 -1046.1  
2751 9.8 90105.7 -1003.2  
  
2752 9.8 90112.5 -1023.4  
2753 9.6 90116.4 -1014.5  
2754 7.1 90152.4 -1010.4  
2755 9.8 90155.6 -1058.0  
2756 9.2 90200.2 -1015.5  
2757 8.5 90210.4 -1059.3  
2758 9.1 90231.8 -1003.9  
2759 9.3 90252.6 -1038.9  
2760 9.8 90306.8 -1045.7  
2761 8.8 90321.5 -1051.1  
  
2762 8.2 90435.9 -1052.9  
2763 9.8 90439.5 -1043.7  
2764 9.5 90448.8 -1009.7  
2765 9.8 90515.7 -1010.6  
2766 7.6 90518.4 -1029.1  
2767 8.0 90528.0 -1008.1  
2768 8.8 90532.0 -1058.2  
2769 8.0 90536.2 -1053.8  
2770 9.6 90538.0 -1048.3  
2771 9.8 90553.0 -1041.9

-10 2771 9h05m



-10 2772 9h05m

-10 3131 10h41m

|      |     |         |         |      |     |         |         |      |     |          |         |      |     |          |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 2772 | 9.6 | 90553.1 | -1021.1 | 2862 | 9.0 | 92633.9 | -1045.0 | 2952 | 9.5 | 94926.3  | -1047.0 | 3042 | 9.1 | 101215.1 | -1009.8 |
| 2773 | 9.6 | 90553.6 | -1009.8 | 2863 | 10. | 92655.4 | -1049.9 | 2953 | 9.9 | 94932.2  | -1037.6 | 3043 | 9.3 | 101326.5 | -1006.4 |
| 2774 | 9.5 | 90602.0 | -1003.3 | 2864 | 9.9 | 92702.3 | -1007.6 | 2954 | 9.5 | 94936.5  | -1008.2 | 3044 | 9.5 | 101414.7 | -1002.8 |
| 2775 | 9.1 | 90603.3 | -1005.2 | 2865 | 9.2 | 92704.7 | -1059.9 | 2955 | 9.3 | 95008.2  | -1013.9 | 3045 | 9.1 | 101425.0 | -1046.6 |
| 2776 | 8.4 | 90614.9 | -1012.1 | 2866 | 9.1 | 92715.4 | -1023.9 | 2956 | 9.4 | 95026.2  | -1055.1 | 3046 | 9.3 | 101500.6 | -1035.3 |
| 2777 | 9.3 | 90622.6 | -1037.9 | 2867 | 9.8 | 92733.6 | -1059.2 | 2957 | 8.7 | 95044.9  | -1008.1 | 3047 | 9.4 | 101500.8 | -1031.6 |
| 2778 | 9.3 | 90623.2 | -1016.3 | 2868 | 9.5 | 92746.5 | -1042.7 | 2958 | 8.8 | 95055.4  | -1016.0 | 3048 | 9.3 | 101501.8 | -1027.2 |
| 2779 | 9.4 | 90624.8 | -1029.9 | 2869 | 9.3 | 92749.0 | -1043.9 | 2959 | 7.3 | 95058.0  | -1002.2 | 3049 | 9.8 | 101520.8 | -1030.1 |
| 2780 | 7.9 | 90626.6 | -1037.9 | 2870 | 9.4 | 92817.1 | -1029.8 | 2960 | 9.9 | 95124.7  | -1024.5 | 3050 | 9.8 | 101535.7 | -1041.0 |
| 2781 | 9.8 | 90626.8 | -1018.6 | 2871 | 10. | 92825.3 | -1037.0 | 2961 | 8.3 | 95134.5  | -1023.1 | 3051 | 8.4 | 101550.3 | -1032.8 |
| 2782 | 9.8 | 90654.2 | -1012.2 | 2872 | 9.3 | 92852.2 | -1007.8 | 2962 | 10. | 95139.8  | -1010.9 | 3052 | 9.8 | 101640.8 | -1033.2 |
| 2783 | 9.3 | 90657.3 | -1024.5 | 2873 | 9.0 | 92854.2 | -1011.9 | 2963 | 9.4 | 95156.8  | -1034.9 | 3053 | 9.4 | 101647.9 | -1012.7 |
| 2784 | 9.7 | 90709.4 | -1048.6 | 2874 | 7.3 | 92928.3 | -1037.5 | 2964 | 9.1 | 95220.5  | -1004.7 | 3054 | 9.0 | 101659.6 | -1015.1 |
| 2785 | 9.7 | 90742.6 | -1028.1 | 2875 | 10. | 92929.7 | -1047.8 | 2965 | 8.2 | 95230.3  | -1000.9 | 3055 | 9.6 | 101702.1 | -1004.6 |
| 2786 | 8.6 | 90828.2 | -1027.8 | 2876 | 8.8 | 92933.2 | -1009.2 | 2966 | 8.7 | 95230.3  | -1022.5 | 3056 | 9.3 | 101710.4 | -1011.5 |
| 2787 | 9.7 | 90842.5 | -1042.4 | 2877 | 9.0 | 92941.4 | -1057.0 | 2967 | 9.5 | 95243.4  | -1010.2 | 3057 | 9.5 | 101720.7 | -1055.5 |
| 2788 | 9.5 | 90859.1 | -1038.4 | 2878 | 8.4 | 92949.1 | -1028.8 | 2968 | 9.0 | 95304.0  | -1039.7 | 3058 | 9.5 | 101735.3 | -1058.1 |
| 2789 | 8.5 | 90926.6 | -1025.0 | 2879 | 9.7 | 93006.3 | -1015.7 | 2969 | 10. | 95309.2  | -1033.6 | 3059 | 10. | 101735.7 | -1055.0 |
| 2790 | 9.3 | 90929.5 | -1043.3 | 2880 | 9.5 | 93047.8 | -1027.0 | 2970 | 9.8 | 95315.8  | -1055.6 | 3060 | 9.4 | 101758.7 | -1028.4 |
| 2791 | 9.7 | 90931.4 | -1011.4 | 2881 | 10. | 93110.9 | -1048.2 | 2971 | 9.5 | 95324.6  | -1019.6 | 3061 | 10. | 101810.5 | -1018.6 |
| 2792 | 8.8 | 90938.0 | -1034.5 | 2882 | 9.2 | 93116.6 | -1001.8 | 2972 | 8.5 | 95327.9  | -1012.1 | 3062 | 9.5 | 101857.7 | -1028.5 |
| 2793 | 8.6 | 90940.4 | -1020.4 | 2883 | 10. | 93137.8 | -1031.4 | 2973 | 9.4 | 95337.3  | -1013.3 | 3063 | 9.4 | 101919.9 | -1044.4 |
| 2794 | 6.3 | 90956.2 | -1029.8 | 2884 | 9.3 | 93208.5 | -1004.8 | 2974 | 8.7 | 95401.0  | -1023.6 | 3064 | 9.5 | 102008.8 | -1038.6 |
| 2795 | 9.3 | 91000.4 | -1007.9 | 2885 | 9.1 | 93225.1 | -1033.5 | 2975 | 10. | 95410.1  | -1017.9 | 3065 | 9.2 | 102055.7 | -1035.4 |
| 2796 | 8.9 | 91015.6 | -1008.5 | 2886 | 8.0 | 93241.7 | -1003.7 | 2976 | 9.0 | 95410.3  | -1003.3 | 3066 | 9.4 | 102137.4 | -1337.3 |
| 2797 | 10. | 91026.1 | -1045.5 | 2887 | 9.7 | 93309.6 | -1046.6 | 2977 | 10. | 95418.8  | -1018.7 | 3067 | 9.7 | 102144.0 | -1025.5 |
| 2798 | 9.5 | 91056.2 | -1027.7 | 2888 | 6.1 | 93315.7 | -1006.6 | 2978 | 9.7 | 95431.4  | -1041.9 | 3068 | 9.4 | 102145.6 | -1043.1 |
| 2799 | 8.8 | 91113.8 | -1041.1 | 2889 | 10. | 93340.4 | -1015.0 | 2979 | 10. | 95509.0  | -1017.1 | 3069 | 9.4 | 102151.9 | -1054.9 |
| 2800 | 9.2 | 91118.1 | -1028.7 | 2890 | 10. | 93439.5 | -1019.0 | 2980 | 9.6 | 95538.5  | -1025.6 | 3070 | 9.7 | 102230.9 | -1013.9 |
| 2801 | 7.5 | 91213.1 | -1032.7 | 2891 | 8.9 | 93449.3 | -1034.8 | 2981 | 8.9 | 95545.2  | -1042.6 | 3071 | 9.1 | 102305.7 | -1016.1 |
| 2802 | 8.9 | 91215.4 | -1037.5 | 2892 | 9.4 | 93509.6 | -1025.0 | 2982 | 8.6 | 95548.1  | -1031.9 | 3072 | 9.0 | 102310.8 | -1019.5 |
| 2803 | 9.2 | 91226.2 | -1059.8 | 2893 | 9.4 | 93528.7 | -1017.9 | 2983 | 8.8 | 95558.6  | -1028.7 | 3073 | 7.3 | 102322.0 | -1013.5 |
| 2804 | 6.8 | 91233.4 | -1042.3 | 2894 | 8.3 | 93534.5 | -1013.3 | 2984 | 8.8 | 95558.7  | -1046.1 | 3074 | 9.4 | 102322.7 | -1016.9 |
| 2805 | 8.3 | 91245.2 | -1034.8 | 2895 | 9.2 | 93539.5 | -1020.1 | 2985 | 7.2 | 95614.2  | -1001.6 | 3075 | 9.7 | 102425.5 | -1010.6 |
| 2806 | 10. | 91253.2 | -1052.1 | 2896 | 10. | 93547.2 | -1050.7 | 2986 | 9.2 | 95628.6  | -1017.4 | 3076 | 7.0 | 102450.7 | -1040.5 |
| 2807 | 9.3 | 91309.0 | -1003.2 | 2897 | 8.8 | 93547.5 | -1001.8 | 2987 | 8.0 | 95813.0  | -1030.1 | 3077 | 9.4 | 102451.8 | -1012.2 |
| 2808 | 8.5 | 91312.8 | -1007.2 | 2898 | 9.3 | 93557.1 | -1037.5 | 2988 | 9.3 | 95835.0  | -1029.2 | 3078 | 9.1 | 102455.5 | -1059.3 |
| 2809 | 8.6 | 91355.1 | -1059.2 | 2899 | 8.8 | 93611.7 | -1053.6 | 2989 | 9.1 | 95837.7  | -1000.6 | 3079 | 9.3 | 102501.4 | -1047.2 |
| 2810 | 9.8 | 91401.7 | -1058.6 | 2900 | 9.3 | 93615.8 | -1007.1 | 2990 | 9.2 | 95857.1  | -1058.4 | 3080 | 9.8 | 102531.9 | -1001.5 |
| 2811 | 8.9 | 91402.0 | -1046.3 | 2901 | 9.3 | 93619.0 | -1011.1 | 2991 | 8.8 | 95931.7  | -1023.4 | 3081 | 9.2 | 102558.3 | -1021.2 |
| 2812 | 9.5 | 91417.7 | -1017.9 | 2902 | 9.8 | 93621.1 | -1031.9 | 2992 | 8.9 | 95948.7  | -1050.5 | 3082 | 9.8 | 102608.6 | -1051.2 |
| 2813 | 9.2 | 91429.3 | -1030.6 | 2903 | 10. | 93635.6 | -1028.7 | 2993 | 9.5 | 95954.1  | -1041.5 | 3083 | 8.7 | 102612.9 | -1002.9 |
| 2814 | 9.2 | 91433.8 | -1037.2 | 2904 | 9.7 | 93641.1 | -1035.4 | 2994 | 8.6 | 100000.0 | -1036.9 | 3084 | 9.0 | 102620.8 | -1010.5 |
| 2815 | 8.8 | 91441.9 | -1013.7 | 2905 | 9.1 | 93647.9 | -1021.7 | 2995 | 8.1 | 100041.3 | -1020.5 | 3085 | 8.2 | 102659.9 | -1031.6 |
| 2816 | 9.8 | 91452.3 | -1013.6 | 2906 | 9.3 | 93708.0 | -1045.9 | 2996 | 9.2 | 100053.8 | -1032.8 | 3086 | 9.0 | 102715.0 | -1030.7 |
| 2817 | 9.3 | 91452.7 | -1029.5 | 2907 | 9.5 | 93718.2 | -1045.7 | 2997 | 9.5 | 100112.2 | -1038.1 | 3087 | 9.6 | 102717.9 | -1014.1 |
| 2818 | 9.6 | 91500.0 | -1055.9 | 2908 | 9.5 | 93746.7 | -1016.5 | 2998 | 8.0 | 100120.5 | -1024.6 | 3088 | 9.5 | 102723.2 | -1054.5 |
| 2819 | 9.5 | 91501.1 | -1043.1 | 2909 | 10. | 93810.3 | -1055.0 | 2999 | 9.5 | 100123.1 | -1005.9 | 3089 | 8.3 | 102724.9 | -1022.3 |
| 2820 | 9.7 | 91515.2 | -1022.1 | 2910 | 9.4 | 93828.1 | -1029.0 | 3000 | 6.6 | 100137.9 | -1010.6 | 3090 | 9.5 | 102753.0 | -1052.0 |
| 2821 | 9.2 | 91526.5 | -1026.0 | 2911 | 9.4 | 93828.8 | -1054.8 | 3001 | 9.8 | 100154.2 | -1001.4 | 3091 | 10. | 102806.9 | -1011.1 |
| 2822 | 8.8 | 91545.6 | -1033.9 | 2912 | 7.7 | 93837.0 | -1041.5 | 3002 | 9.4 | 100155.0 | -1028.5 | 3092 | 9.9 | 102945.4 | -1010.1 |
| 2823 | 9.6 | 91552.8 | -1014.5 | 2913 | 9.7 | 93837.7 | -1022.1 | 3003 | 8.8 | 100155.5 | -1049.9 | 3093 | 9.4 | 102953.6 | -1033.4 |
| 2824 | 9.4 | 91600.1 | -1013.5 | 2914 | 9.6 | 93859.2 | -1033.2 | 3004 | 9.3 | 100159.2 | -1059.7 | 3094 | 6.8 | 103000.7 | -1059.9 |
| 2825 | 9.1 | 91601.5 | -1030.3 | 2915 | 9.3 | 93913.5 | -1021.8 | 3005 | 9.1 | 100201.1 | -1028.8 | 3095 | 9.3 | 103003.3 | -1005.5 |
| 2826 | 9.6 | 91608.4 | -1053.1 | 2916 | 9.8 | 93937.6 | -1057.2 | 3006 | 8.9 | 100254.4 | -1009.4 | 3096 | 8.5 | 103006.4 | -1045.5 |
| 2827 | 9.3 | 91620.3 | -1052.8 | 2917 | 10. | 93944.4 | -1004.9 | 3007 | 9.9 | 100257.3 | -1035.3 | 3097 | 9.6 | 103010.4 | -1017.6 |
| 2828 | 8.5 | 91631.5 | -1011.9 | 2918 | 6.8 | 94004.9 | -1004.3 | 3008 | 9.5 | 100304.6 | -1018.6 | 3098 | 9.5 | 103011.9 | -1016.5 |
| 2829 | 9.7 | 91639.1 | -1049.0 | 2919 | 8.7 | 94005.7 | -1007.8 | 3009 | 9.6 | 100321.3 | -1050.4 | 3099 | 8.4 | 103013.4 | -1017.3 |
| 2830 | 9.8 | 91649.6 | -1055.5 | 2920 | 9.8 | 94016.6 | -1037.8 | 3010 | 9.0 | 100333.2 | -1045.8 | 3100 | 8.3 | 103032.5 | -1017.8 |
| 2831 | 9.8 | 91652.9 | -1011.1 | 2921 | 9.7 | 94019.9 | -1053.9 | 3011 | 9.4 | 100349.4 | -1052.6 | 3101 | 9.5 | 103040.8 | -1059.1 |
| 2832 | 8.6 | 91659.1 | -1028.1 | 2922 | 9.3 | 94021.1 | -1032.3 | 3012 | 9.6 | 100349.8 | -1036.7 | 3102 | 8.0 | 103045.5 | -1045.5 |
| 2833 | 10. | 91721.1 | -1003.8 | 2923 | 9.0 | 94044.6 | -1052.8 | 3013 | 9.5 | 100353.1 | -1014.1 | 3103 | 8.6 | 103055.9 | -1027.7 |
| 2834 | 7.5 | 91752.5 | -1018.9 | 2924 | 9.8 | 94046.2 | -1054.8 | 3014 | 9.5 | 100357.5 | -1016.4 | 3104 | 9.5 | 103056.0 | -1042.6 |
| 2835 | 9.0 | 91838.6 | -1058.3 | 2925 | 9.0 | 94056.0 | -1041.8 | 3015 | 9.5 | 100418.8 | -1033.3 | 3105 | 9.3 | 103115.3 | -1004.4 |
| 2836 | 10. | 91857.4 | -1023.1 | 2926 | 8.8 | 94057.3 | -1012.3 | 3016 | 9.6 | 100421.7 | -1034.2 | 3106 | 9.8 | 103136.4 | -1057.3 |
| 2837 | 9.5 | 91955.7 | -1043.1 | 2927 | 9.5 | 94058.2 | -1013.2 | 3017 | 9.2 | 100431.1 | -1018.0 | 3107 | 9.2 | 103211.2 | -1017.4 |
| 2838 | 8.6 | 92055.2 | -1055.7 | 2928 | 8.8 | 94127.6 | -1051.7 | 3018 | 9.5 | 100440.4 | -1033.6 | 3108 | 9.0 | 103239.8 | -1015.7 |
| 2839 | 10. | 92108.0 | -1059.2 | 2929 | 9.1 | 94146.5 | -1006.4 | 3019 | 9.5 | 100457.7 | -1009.5 | 3109 | 9.0 | 103301.0 | -1049.2 |
| 2840 | 9.7 | 92108.5 | -1043.1 | 2930 | 9.3 | 94149.8 | -1003.6 | 3020 | 8.2 | 100509.5 | -1025.6 | 3110 | 9.8 | 103323.3 | -1036.3 |
| 2841 | 9.5 | 92117.1 | -1016.5 | 2931 | 9.8 | 94203.7 | -1055.5 | 3021 | 8.9 | 100542.7 | -1029.2 | 3111 | 9.3 | 103326.1 | -1055.8 |
| 2842 | 9.3 | 92130.1 | -1011.3 | 2932 | 9.2 | 94223.4 | -1005.6 | 3022 | 9.9 | 100600.6 | -1027.3 | 3112 | 8.3 | 103345.6 | -1013.3 |
| 2843 | 9.0 | 92139.5 | -1019.5 | 2933 | 9.6 | 94232.4 | -1015.5 | 3023 | 9.8 | 100604.9 | -1053.7 | 3113 | 9.5 | 103407.3 | -1022.4 |
| 2844 | 9.3 | 92203.0 | -1001.6 | 2934 | 9.7 | 94236.7 | -1023.0 | 3024 | 9.2 | 100613.7 | -1030.3 | 3114 | 9.0 | 103425.9 | -1039.6 |
| 2845 | 9.4 | 92211.8 | -1025.3 | 2935 | 9.7 | 94254.6 | -1040.9 | 3025 | 9.1 | 100629.8 | -1057.2 | 3115 | 9.5 | 103432.5 | -1048.9 |
| 2846 | 9.4 | 92223.6 | -1029.4 | 2    |     |         |         |      |     |          |         |      |     |          |         |



-10 3132 10h42m

3132 9.2 104202.4 -1017.2  
3133 8.7 104230.5 -1020.9  
3134 9.7 104237.2 -1056.5  
3135 9.2 104258.3 -1055.3  
3136 9.5 104311.0 -1046.9  
3137 9.5 104311.4 -1025.0  
3138 8.9 104458.6 -1055.3  
3139 7.0 104503.7 -1020.4  
3140 9.5 104524.5 -1038.5  
3141 7.5 104532.8 -1039.2  
  
3142 9.5 104553.4 -1039.5  
3143 9.6 104600.5 -1005.3  
3144 9.8 104601.4 -1013.9  
3145 9.1 104623.2 -1021.6  
3146 8.8 104626.8 -1038.1  
3147 9.8 104628.6 -1055.1  
3148 9.1 104725.0 -1019.1  
3149 8.7 104726.3 -1045.7  
3150 8.9 104731.3 -1058.0  
3151 9.4 104748.7 -1033.6  
  
3152 8.3 104804.9 -1005.0  
3153 8.5 104812.9 -1054.5  
3154 9.3 104822.4 -1005.2  
3155 9.7 104847.6 -1017.5  
3156 9.0 104904.4 -1003.0  
3157 9.5 105001.4 -1045.4  
3158 9.5 105014.1 -1059.7  
3159 8.2 105015.9 -1018.5  
3160 9.5 105017.5 -1037.4  
3161 9.5 105019.3 -1051.4  
  
3162 9.4 105028.1 -1000.5  
3163 9.8 105049.8 -1045.1  
3164 9.6 105109.4 -1018.5  
3165 8.7 105113.2 -1038.3  
3166 9.4 105115.9 -1000.1  
3167 9.5 105116.6 -1024.0  
3168 10. 105155.6 -1030.7  
3169 9.8 105156.6 -1010.1  
3170 8.8 105201.8 -1010.8  
3171 10. 105227.3 -1010.1  
  
3172 10. 105232.1 -1031.8  
3173 9.9 105233.2 -1037.4  
3174 9.1 105251.1 -1016.7  
3175 9.5 105326.4 -1051.5  
3176 8.8 105342.7 -1041.4  
3177 9.1 105351.8 -1051.7  
3178 9.0 105356.7 -1044.4  
3179 9.3 105403.6 -1030.0  
3180 9.1 105522.8 -1010.4  
3181 9.9 105537.0 -1001.9  
  
3182 9.8 105551.8 -1011.2  
3183 9.8 105556.0 -1022.2  
3184 6.0 105559.5 -1030.9  
3185 9.2 105602.3 -1005.0  
3186 9.1 105634.2 -1002.8  
3187 9.6 105708.4 -1029.2  
3188 8.5 105719.2 -1003.0  
3189 8.0 105739.6 -1058.4  
3190 6.8 105817.8 -1017.9  
3191 9.6 105821.8 -1019.8  
  
3192 8.9 105847.3 -1024.1  
3193 8.9 105852.8 -1057.9  
3194 9.5 105901.2 -1019.4  
3195 9.3 105907.7 -1059.8  
3196 9.3 105940.5 -1032.5  
3197 9.6 105943.1 -1049.5  
3198 10. 105944.6 -1007.6  
3199 9.0 110014.7 -1010.4  
3200 9.2 110016.2 -1006.1  
3201 8.8 110126.2 -1024.1  
  
3202 9.6 110135.5 -1033.3  
3203 9.7 110150.2 -1037.0  
3204 8.9 110150.7 -1034.6  
3205 9.3 110151.4 -1055.4  
3206 9.8 110159.9 -1004.8  
3207 7.7 110203.1 -1053.1  
3208 9.9 110219.1 -1020.4  
3209 9.0 110228.5 -1032.1  
3210 9.8 110248.3 -1015.3  
3211 8.1 110254.9 -1034.0  
  
3212 8.5 110347.5 -1028.6  
3213 10. 110348.6 -1011.1  
3214 9.7 110354.5 -1012.7  
3215 9.5 110356.4 -1021.0  
3216 9.1 110400.9 -1011.1  
3217 9.3 110402.0 -1032.5  
3218 9.7 110411.5 -1033.8  
3219 10. 110422.4 -1048.2  
3220 9.5 110450.4 -1002.1  
3221 9.4 110526.3 -1056.3

3222 9.4 110604.4 -1002.3  
3223 9.0 110626.0 -1015.1  
3224 9.7 110634.6 -1016.8  
3225 9.6 110729.1 -1030.5  
3226 8.6 110736.6 -1026.5  
3227 7.2 110805.6 -1047.7  
3228 9.8 110914.3 -1023.7  
3229 8.9 110919.2 -1041.4  
3230 9.2 111005.6 -1051.9  
3231 10. 111005.8 -1038.6  
  
3232 8.8 111007.3 -1004.8  
3233 10. 111014.6 -1007.8  
3234 9.0 111017.1 -1018.8  
3235 9.8 111035.0 -1054.4  
3236 10. 111053.0 -1049.5  
3237 9.8 111117.8 -1057.2  
3238 9.5 111126.2 -1009.5  
3239 7.9 111135.8 -1058.5  
3240 9.0 111143.2 -1037.5  
3241 9.6 111156.0 -1018.8  
  
3242 9.1 111217.5 -1025.9  
3243 8.4 111222.5 -1058.2  
3244 9.7 111227.5 -1040.9  
3245 9.8 111237.0 -1030.3  
3246 8.7 111244.3 -1018.3  
3247 9.1 111311.7 -1002.4  
3248 9.4 111332.4 -1045.1  
3249 10. 111402.4 -1052.5  
3250 9.4 111435.9 -1046.7  
3251 9.3 111505.3 -1020.1  
  
3252 8.9 111519.9 -1022.8  
3253 9.8 111550.4 -1039.3  
3254 9.4 111619.1 -1002.4  
3255 9.6 111641.8 -1059.1  
3256 9.4 111649.6 -1014.7  
3257 8.3 111651.3 -1020.0  
3258 9.2 111653.9 -1015.2  
3259 9.1 111701.4 -1052.5  
3260 4.5 111717.1 -1003.4  
3261 9.5 111732.8 -1045.1  
  
3262 10. 111740.9 -1021.7  
3263 8.7 111741.6 -1024.8  
3264 10. 111831.0 -1004.5  
3265 9.6 111831.8 -1047.8  
3266 10. 111914.3 -1055.2  
3267 9.5 112000.0 -1007.4  
3268 9.2 112009.8 -1050.1  
3269 10. 112025.5 -1001.8  
3270 9.0 112034.5 -1012.8  
3271 8.8 112035.5 -1015.8  
  
3272 9.4 112114.3 -1041.3  
3273 9.4 112120.0 -1059.5  
3274 9.4 112131.8 -1031.4  
3275 8.8 112137.8 -1014.7  
3276 9.5 112141.2 -1055.1  
3277 9.8 112203.8 -1036.7  
3278 9.8 112206.0 -1019.3  
3279 9.8 112229.9 -1044.5  
3280 9.2 112328.0 -1001.6  
3281 9.0 112335.7 -1025.6  
  
3282 9.5 112339.7 -1040.2  
3283 9.1 112341.6 -1059.5  
3284 9.5 112425.2 -1039.5  
3285 9.8 112449.2 -1026.8  
3286 9.0 112449.9 -1033.5  
3287 9.5 112459.0 -1022.7  
3288 9.0 112504.2 -1053.6  
3289 9.7 112519.0 -1012.1  
3290 9.8 112600.1 -1056.0  
3291 9.5 112620.8 -1057.3  
  
3292 9.9 112653.1 -1044.5  
3293 9.8 112705.8 -1059.9  
3294 9.2 112749.7 -1016.9  
3295 9.8 112751.6 -1022.5  
3296 9.1 112755.1 -1055.3  
3297 9.8 112759.1 -1026.0  
3298 9.1 112838.3 -1001.8  
3299 9.5 112846.9 -1003.7  
3300 9.1 112850.5 -1042.7  
3301 10. 112909.1 -1023.8  
  
3302 10. 112952.6 -1041.0  
3303 10. 113005.0 -1044.6  
3304 9.4 113006.5 -1054.6  
3305 9.8 113014.1 -1031.4  
3306 9.8 113024.6 -1052.0  
3307 9.8 113039.0 -1038.9  
3308 9.4 113044.0 -1043.1  
3309 8.0 113105.9 -1007.6  
3310 10. 113111.4 -1002.2  
3311 8.4 113116.5 -1026.3

3312 9.8 113130.0 -1019.6  
3313 9.8 113152.0 -1016.8  
3314 9.5 113213.0 -1034.7  
3315 9.5 113327.4 -1029.7  
3316 9.5 113341.4 -1009.0  
3317 9.7 113347.0 -1059.8  
3318 9.9 113356.6 -1014.1  
3319 9.7 113406.6 -1010.4  
3320 9.8 113425.4 -1017.6  
3321 10. 113434.7 -1044.3  
  
3322 9.9 113436.9 -1001.7  
3323 9.5 113438.1 -1017.4  
3324 9.8 113451.8 -1020.9  
3325 8.5 113503.4 -1042.8  
3326 9.5 113606.3 -1006.7  
3327 9.5 113618.3 -1008.9  
3328 9.7 113622.9 -1015.3  
3329 9.9 113624.4 -1025.4  
3330 9.8 113641.3 -1054.5  
3331 8.8 113714.7 -1009.4  
  
3332 9.1 113724.8 -1039.9  
3333 9.5 113741.5 -1011.9  
3334 10. 113752.3 -1053.5  
3335 9.5 113801.2 -1040.0  
3336 8.9 113803.4 -1039.7  
3337 8.9 113901.3 -1051.8  
3338 8.8 113936.9 -1008.6  
3339 9.2 114020.7 -1053.2  
3340 9.5 114028.3 -1046.3  
3341 9.3 114059.5 -1007.8  
  
3342 9.1 114127.5 -1013.8  
3343 10. 114137.4 -1019.2  
3344 10. 114219.3 -1007.6  
3345 9.6 114238.7 -1049.4  
3346 8.7 114244.9 -1014.7  
3347 9.0 114249.2 -1043.3  
3348 9.3 114253.3 -1029.5  
3349 9.5 114256.8 -1037.2  
3350 9.8 114302.2 -1015.4  
3351 9.5 114334.2 -1041.2  
  
3352 9.5 114343.1 -1054.0  
3353 8.4 114343.9 -1024.1  
3354 9.0 114344.4 -1029.5  
3355 9.6 114411.2 -1043.3  
3356 10. 114426.2 -1003.0  
3357 8.8 114447.6 -1030.0  
3358 9.1 114456.8 -1019.2  
3359 9.5 114505.1 -1054.0  
3360 9.7 114550.7 -1020.7  
3361 8.5 114701.6 -1032.6  
  
3362 9.5 114714.1 -1010.0  
3363 8.2 114717.7 -1014.5  
3364 9.8 114735.6 -1040.2  
3365 9.8 114749.6 -1017.5  
3366 9.1 114751.1 -1051.9  
3367 9.4 114809.0 -1041.6  
3368 10. 114809.8 -1014.6  
3369 9.0 114847.1 -1046.4  
3370 9.9 114848.7 -1007.0  
3371 9.6 114857.0 -1054.0  
  
3372 8.3 114959.5 -1059.6  
3373 9.5 115008.6 -1028.5  
3374 9.4 115009.5 -1042.3  
3375 9.4 115033.5 -1033.1  
3376 10. 115035.5 -1041.2  
3377 10. 115044.0 -1054.5  
3378 9.3 115105.1 -1008.6  
3379 9.5 115107.5 -1046.1  
3380 9.3 115118.5 -1049.7  
3381 9.2 115144.3 -1019.8  
  
3382 9.5 115201.5 -1051.9  
3383 9.0 115205.0 -1047.9  
3384 10. 115234.6 -1049.7  
3385 9.3 115311.3 -1012.3  
3386 9.1 115331.9 -1046.4  
3387 10. 115355.9 -1044.9  
3388 10. 115445.9 -1041.9  
3389 9.5 115510.5 -1001.6  
3390 9.3 115536.5 -1009.3  
3391 10. 115557.8 -1010.6  
  
3392 9.5 115633.4 -1046.1  
3393 9.8 115638.8 -1004.5  
3394 9.8 115640.4 -1049.7  
3395 9.9 115642.9 -1050.6  
3396 8.8 115718.2 -1019.3  
3397 9.6 115739.3 -1022.7  
3398 10. 115741.3 -1034.6  
3399 9.5 115848.8 -1019.8  
3400 9.1 115906.3 -1050.5  
3401 9.4 115907.8 -1050.1

-10 3491 12h25m

3402 8.6 115921.3 -1052.4  
3403 9.5 115930.9 -1006.1  
3404 9.7 120004.3 -1020.2  
3405 9.0 120009.1 -1017.1  
3406 9.4 120020.8 -1015.9  
3407 9.4 120024.4 -1012.7  
3408 9.6 120044.5 -1010.0  
3409 9.8 120047.7 -1025.5  
3410 9.8 120050.1 -1019.5  
3411 9.5 120154.4 -1006.2  
  
3412 9.7 120234.7 -1016.6  
3413 9.6 120236.6 -1056.5  
3414 9.0 120250.7 -1041.9  
3415 9.5 120338.2 -1047.7  
3416 9.6 120352.8 -1015.4  
3417 9.2 120409.2 -1029.1  
3418 8.8 120425.2 -1035.6  
3419 9.1 120443.7 -1045.7  
3420 8.0 120458.1 -1051.0  
3421 9.3 120504.2 -1057.7  
  
3422 9.4 120532.9 -1010.6  
3423 10. 120539.6 -1043.7  
3424 9.4 120549.6 -1039.0  
3425 9.9 120618.6 -1035.5  
3426 9.4 120644.6 -1042.7  
3427 9.7 120703.6 -1047.0  
3428 9.4 120724.9 -1012.2  
3429 9.9 120734.1 -1045.9  
3430 9.5 120747.9 -1011.6  
3431 9.5 120801.5 -1036.5  
  
3432 9.9 120811.7 -1001.4  
3433 9.8 120852.0 -1036.1  
3434 9.3 120910.1 -1025.8  
3435 9.8 120927.8 -1054.4  
3436 9.9 120929.0 -1037.4  
3437 9.1 121016.2 -1020.7  
3438 10. 121019.1 -1005.5  
3439 10. 121022.7 -1041.4  
3440 8.5 121032.2 -1011.9  
3441 10. 121107.2 -1011.3  
  
3442 9.0 121143.0 -1043.4  
3443 10. 121145.4 -1021.3  
3444 10. 121146.6 -1000.0  
3445 9.6 121204.4 -1055.2  
3446 8.5 121221.8 -1010.4  
3447 9.0 121241.9 -1035.2  
3448 9.8 121250.5 -1026.9  
3449 10. 121326.1 -1001.6  
3450 10. 121331.0 -1041.4  
3451 9.2 121337.2 -1006.2  
  
3452 8.0 121340.4 -1040.1  
3453 8.7 121404.0 -1058.4  
3454 9.0 121407.1 -1014.9  
3455 8.8 121453.6 -1008.3  
3456 10. 121505.4 -1034.4  
3457 8.6 121506.4 -1045.1  
3458 9.0 121514.8 -1050.4  
3459 9.2 121528.6 -1050.4  
3460 10. 121550.1 -1029.5  
3461 9.8 121552.9 -1030.8  
  
3462 9.5 121632.0 -1001.9  
3463 9.5 121635.4 -1046.6  
3464 9.5 121737.3 -1029.9  
3465 9.5 121738.4 -1032.8  
3466 9.8 121740.4 -1057.9  
3467 6.0 121743.9 -1048.2  
3468 9.1 121753.3 -1017.3  
3469 9.0 121838.5 -1001.0  
3470 10. 121852.0 -1035.9  
3471 9.5 121854.0 -1034.3  
  
3472 9.9 121903.8 -1028.8  
3473 9.4 122007.6 -1017.9  
3474 8.9 122009.2 -1055.0  
3475 9.5 122018.2 -1024.1  
3476 9.5 122042.7 -1030.1  
3477 9.5 122101.5 -1012.2  
3478 8.2 122108.1 -1013.2  
3479 9.8 122125.3 -1042.5  
3480 9.1 122153.8 -1028.8  
3481 9.5 122231.2 -1027.0  
  
3482 9.5 122232.4 -1050.0  
3483 9.2 122246.7 -1027.3  
3484 9.8 122316.6 -1033.2  
3485 9.9 122318.1 -1020.5  
3486 8.0 122406.9 -1016.6  
3487 7.5 122407.6 -1016.2  
3488 9.1 122421.2 -1054.1  
3489 9.4 122431.0 -1058.0  
3490 9.3 122435.1 -1031.7  
3491 9.9 122502.2 -1019.5



3492 9.9 122504.7 -1337.9  
 3493 8.3 122540.9 -1019.9  
 3494 8.2 122606.7 -1049.2  
 3495 10. 122619.8 -1047.1  
 3496 9.0 122641.5 -1039.1  
 3497 9.0 122649.0 -1004.9  
 3498 10. 122652.1 -1041.8  
 3499 9.1 122715.0 -1038.4  
 3500 9.2 122717.4 -1058.8  
 3501 9.8 122724.5 -1018.0

3502 10. 122739.9 -1005.4  
 3503 9.5 122741.6 -1013.4  
 3504 8.9 122743.5 -1035.7  
 3505 9.5 122750.4 -1004.5  
 3506 10. 122825.6 -1039.7  
 3507 10. 122859.1 -1019.4  
 3508 10. 122859.9 -1013.0  
 3509 9.3 122930.0 -1028.3  
 3510 9.0 123042.0 -1033.0  
 3511 9.0 123048.5 -1042.0

3512 8.0 123049.5 -1043.0  
 3513 9.0 123057.5 -1043.7  
 3514 9.2 123059.5 -1039.0  
 3515 9.0 123103.7 -1044.3  
 3516 9.5 123104.0 -1033.4  
 3517 9.5 123106.5 -1031.4  
 3518 9.8 123115.0 -1000.0  
 3519 9.7 123116.5 -1027.0  
 3520 9.5 123121.0 -1025.5  
 3521 9.4 123154.9 -1052.7

3522 9.1 123158.4 -1022.3  
 3523 9.0 123208.9 -1001.8  
 3524 9.5 123214.2 -1051.1  
 3525 20.0 123227.5 -1049.7  
 3526 9.5 123237.3 -1040.3  
 3527 9.1 123244.9 -1055.4  
 3528 9.6 123302.4 -1014.0  
 3529 9.8 123321.8 -1006.5  
 3530 9.5 123324.7 -1043.5  
 3531 9.4 123326.9 -1044.1

3532 9.5 123330.9 -1017.8  
 3533 8.7 123333.9 -1046.8  
 3534 8.7 123414.4 -1047.5  
 3535 8.7 123439.9 -1023.6  
 3536 9.7 123445.7 -1014.3  
 3537 9.8 123445.9 -1042.2  
 3538 9.9 123459.4 -1025.4  
 3539 9.6 123504.9 -1057.2  
 3540 9.6 123515.7 -1021.1  
 3541 9.9 123537.4 -1008.2

3542 9.9 123549.3 -1005.4  
 3543 9.8 123610.6 -1027.6  
 3544 8.5 123652.8 -1031.9  
 3545 9.1 123722.8 -1000.0  
 3546 8.2 123732.3 -1012.2  
 3547 9.8 123745.1 -1049.3  
 3548 9.8 123753.8 -1022.7  
 3549 8.5 123941.7 -1040.9  
 3550 9.7 123957.6 -1017.3  
 3551 9.3 124002.3 -1053.4

3552 9.5 124011.3 -1002.7  
 3553 9.5 124034.2 -1037.5  
 3554 8.7 124043.2 -1011.0  
 3555 9.4 124135.2 -1008.6  
 3556 10. 124158.2 -1022.3  
 3557 9.8 124232.7 -1001.9  
 3558 9.4 124327.2 -1023.9  
 3559 8.7 124336.7 -1028.8  
 3560 10. 124347.4 -1054.4  
 3561 10. 124418.6 -1019.7

3562 9.3 124543.1 -1043.6  
 3563 8.7 124546.6 -1008.0  
 3564 9.5 124553.6 -1001.2  
 3565 9.2 124556.1 -1037.5  
 3566 9.8 124627.0 -1000.4  
 3567 9.4 124631.1 -1036.0  
 3568 9.8 124632.6 -1034.1  
 3569 9.6 124640.5 -1014.8  
 3570 6.0 124645.6 -1051.5  
 3571 10. 124647.9 -1033.5

3572 9.8 124648.6 -1043.3  
 3573 9.8 124712.6 -1027.1  
 3574 10. 124714.1 -1031.5  
 3575 9.6 124724.0 -1027.1  
 3576 8.9 124802.3 -1040.8  
 3577 9.7 124808.1 -1008.9  
 3578 8.8 124829.3 -1031.4  
 3579 9.8 124906.0 -1018.9  
 3580 9.6 124916.2 -1028.0  
 3581 8.5 124924.0 -1005.7

3582 9.4 124954.9 -1019.6  
 3583 9.2 125012.8 -1029.0  
 3584 9.2 125031.1 -1059.4  
 3585 9.6 125116.3 -1039.5  
 3586 9.2 125117.3 -1043.0  
 3587 10. 125126.5 -1003.9  
 3588 9.3 125145.8 -1039.5  
 3589 9.1 125156.8 -1045.8  
 3590 9.7 125237.2 -1028.2  
 3591 9.4 125305.7 -1034.3

3592 8.3 125349.2 -1022.6  
 3593 9.8 125408.9 -1000.8  
 3594 9.5 125418.2 -1050.7  
 3595 10. 125422.9 -1011.1  
 3596 9.8 125456.4 -1012.6  
 3597 9.8 125508.6 -1037.1  
 3598 10. 125518.5 -1002.2  
 3599 8.0 125603.2 -1047.6  
 3600 8.9 125621.4 -1011.1  
 3601 8.8 125648.2 -1055.1

3602 9.5 125738.1 -1024.8  
 3603 9.7 125744.3 -1037.5  
 3604 10. 125801.2 -1022.0  
 3605 9.2 125802.4 -1025.4  
 3606 9.1 125805.7 -1045.0  
 3607 9.5 125810.1 -1025.0  
 3608 8.9 125827.0 -1014.9  
 3609 9.5 125857.3 -1007.3  
 3610 9.2 125912.6 -1058.1  
 3611 9.1 125935.4 -1050.6

3612 9.3 125935.6 -1004.4  
 3613 9.6 125954.7 -1025.5  
 3614 9.1 125958.0 -1057.2  
 3615 7.3 130052.0 -1059.0  
 3616 9.6 130054.3 -1013.7  
 3617 10. 130108.8 -1029.1  
 3618 9.5 130134.6 -1030.4  
 3619 10. 130138.4 -1009.6  
 3620 9.7 130149.5 -1057.3  
 3621 9.1 130151.0 -1023.0

3622 9.4 130205.2 -1058.6  
 3623 9.5 130216.6 -1053.4  
 3624 8.2 130257.2 -1002.5  
 3625 9.0 130341.4 -1020.1  
 3626 9.6 130352.9 -1010.7  
 3627 7.0 130405.0 -1026.9  
 3628 9.8 130433.9 -1055.5  
 3629 9.3 130450.0 -1014.8  
 3630 8.5 130504.3 -1048.3  
 3631 9.2 130504.5 -1041.2

3632 10. 130528.6 -1029.7  
 3633 8.9 130615.5 -1047.0  
 3634 9.6 130708.5 -1016.9  
 3635 7.5 130720.3 -1035.5  
 3636 8.6 130733.8 -1034.4  
 3637 9.8 130752.8 -1025.8  
 3638 9.1 130753.5 -1014.7  
 3639 9.5 130759.9 -1046.4  
 3640 9.6 130802.8 -1001.4  
 3641 8.7 130820.4 -1028.5

3642 9.4 130850.3 -1059.5  
 3643 9.5 130916.2 -1001.8  
 3644 6.8 130944.9 -1043.0  
 3645 9.8 131014.0 -1059.9  
 3646 9.6 131025.7 -1004.0  
 3647 9.4 131034.3 -1003.5  
 3648 9.5 131029.4 -1016.1  
 3649 9.3 131045.4 -1045.8  
 3650 9.3 131050.3 -1051.8  
 3651 8.5 131148.8 -1023.0

3652 7.7 131207.4 -1054.8  
 3653 9.5 131213.4 -1033.3  
 3654 9.4 131225.8 -1035.5  
 3655 6.8 131243.3 -1032.4  
 3656 8.9 131307.3 -1041.3  
 3657 9.3 131309.6 -1003.6  
 3658 10. 131320.4 -1032.7  
 3659 9.7 131321.1 -1018.4  
 3660 8.0 131357.6 -1059.2  
 3661 9.6 131402.0 -1014.6

3662 10. 131418.6 -1019.9  
 3663 9.0 131437.4 -1051.5  
 3664 10. 131439.0 -1041.6  
 3665 9.7 131446.5 -1046.3  
 3666 9.1 131511.8 -1037.9  
 3667 8.6 131541.3 -1017.0  
 3668 9.5 131549.7 -1049.2  
 3669 9.4 131556.2 -1035.1  
 3670 8.0 131619.6 -1006.8  
 3671 9.5 131634.6 -1000.2

3672 1.0 131733.0 -1024.1  
 3673 9.8 131757.3 -1006.6  
 3674 9.5 131805.3 -1032.9  
 3675 9.7 131826.6 -1000.6  
 3676 9.6 131858.0 -1022.5  
 3677 8.8 131920.8 -1034.8  
 3678 9.8 131940.1 -1018.5  
 3679 9.4 131956.8 -1010.1  
 3680 9.0 132033.7 -1001.4  
 3681 8.8 132039.1 -1017.4

3682 9.5 132044.7 -1052.8  
 3683 9.2 132048.8 -1010.6  
 3684 9.6 132054.3 -1001.2  
 3685 9.3 132056.8 -1021.5  
 3686 10. 132129.6 -1015.1  
 3687 9.9 132151.5 -1001.1  
 3688 9.3 132151.6 -1011.3  
 3689 9.0 132215.2 -1044.8  
 3690 9.5 132227.7 -1033.8  
 3691 9.3 132256.2 -1006.7

3692 9.8 132301.6 -1020.0  
 3693 9.5 132318.7 -1033.8  
 3694 9.7 132337.2 -1000.3  
 3695 8.8 132347.0 -1017.7  
 3696 9.5 132351.6 -1054.2  
 3697 9.4 132421.2 -1016.6  
 3698 9.5 132426.5 -1027.7  
 3699 8.8 132426.7 -1030.2  
 3700 9.8 132429.6 -1002.0  
 3701 9.7 132455.0 -1015.2

3702 10. 132540.5 -1015.0  
 3703 9.3 132557.1 -1041.8  
 3704 8.3 132610.2 -1024.5  
 3705 7.8 132638.1 -1047.2  
 3706 9.8 132653.1 -1004.8  
 3707 9.5 132701.6 -1050.2  
 3708 9.8 132722.5 -1027.4  
 3709 10. 132725.4 -1046.5  
 3710 9.3 132726.0 -1017.8  
 3711 9.8 132749.6 -1006.4

3712 8.8 132750.5 -1009.5  
 3713 9.5 132754.0 -1015.5  
 3714 9.4 132800.7 -1029.1  
 3715 8.9 132829.9 -1055.3  
 3716 8.6 132833.1 -1004.8  
 3717 10. 132901.4 -1034.0  
 3718 8.9 132916.8 -1009.6  
 3719 9.3 132932.0 -1032.2  
 3720 9.5 132951.6 -1011.3  
 3721 8.5 132956.0 -1003.3

3722 10. 133029.4 -1009.1  
 3723 10. 133033.5 -1007.0  
 3724 8.5 133049.1 -1021.3  
 3725 9.1 133100.5 -1064.2  
 3726 9.1 133111.0 -1009.5  
 3727 9.2 133121.8 -1041.1  
 3728 8.5 133138.5 -1019.5  
 3729 9.8 133205.8 -1028.7  
 3730 9.0 133331.4 -1031.7  
 3731 9.4 133337.9 -1035.3

3732 9.8 133356.3 -1038.8  
 3733 9.8 133358.3 -1035.0  
 3734 9.3 133411.9 -1008.5  
 3735 10. 133423.3 -1029.2  
 3736 10. 133457.4 -1004.0  
 3737 10. 133510.2 -1037.2  
 3738 8.0 133516.5 -1033.7  
 3739 9.5 133538.0 -1035.8  
 3740 9.5 133543.5 -1036.2  
 3741 10. 133547.9 -1004.5

3742 9.5 133559.4 -1042.5  
 3743 8.0 133622.9 -1042.3  
 3744 9.1 133638.5 -1026.3  
 3745 9.4 133704.9 -1004.3  
 3746 9.3 133753.8 -1045.5  
 3747 9.8 133754.9 -1032.1  
 3748 8.0 133810.8 -1029.7  
 3749 10. 133829.4 -1003.4  
 3750 9.8 133841.3 -1028.5  
 3751 9.2 133913.8 -1041.2

3752 9.5 133922.9 -1024.7  
 3753 9.0 134008.6 -1033.3  
 3754 9.5 134011.1 -1002.0  
 3755 9.4 134014.3 -1004.1  
 3756 8.9 134020.5 -1045.5  
 3757 10. 134022.5 -1032.3  
 3758 10. 134026.1 -1045.8  
 3759 8.5 134030.7 -1003.4  
 3760 9.4 134047.9 -1025.7  
 3761 8.8 134049.4 -1034.6

3762 9.7 134144.3 -1059.0  
 3763 9.5 134202.8 -1014.7  
 3764 9.2 134207.6 -1017.3  
 3765 8.9 134251.3 -1003.1  
 3766 10. 134252.0 -1010.8  
 3767 9.5 134254.8 -1055.1  
 3768 7.5 134306.7 -1038.2  
 3769 8.8 134315.7 -1042.1  
 3770 10. 134409.0 -1048.4  
 3771 9.5 134421.7 -1054.8

3772 9.0 134427.6 -1013.3  
 3773 9.5 134430.7 -1045.2  
 3774 9.8 134438.8 -1001.5  
 3775 9.7 134502.2 -1054.0  
 3776 9.8 134557.2 -1057.1  
 3777 9.6 134604.7 -1002.4  
 3778 7.2 134624.5 -1058.7  
 3779 9.0 134634.6 -1010.7  
 3780 10. 134639.2 -1004.2  
 3781 9.5 134732.1 -1043.1

3782 9.5 134748.2 -1059.7  
 3783 9.4 134757.6 -1044.7  
 3784 9.5 134810.6 -1053.4  
 3785 9.5 134851.8 -1018.1  
 3786 8.7 134905.2 -1002.5  
 3787 9.6 134946.6 -1052.8  
 3788 9.8 134951.7 -1024.2  
 3789 9.4 134958.5 -1055.6  
 3790 8.4 135002.2 -1012.7  
 3791 8.0 135003.6 -1049.7

3792 9.8 135006.6 -1016.0  
 3793 9.7 135011.7 -1001.0  
 3794 9.1 135042.4 -1026.8  
 3795 9.5 135109.6 -1029.4  
 3796 9.1 135140.6 -1001.5  
 3797 9.5 135145.6 -1027.2  
 3798 9.7 135220.2 -1013.8  
 3799 9.6 135302.2 -1043.7  
 3800 9.0 135317.0 -1036.1  
 3801 9.8 135355.9 -1020.9

3802 8.8 135408.0 -1046.1  
 3803 9.6 135412.3 -1002.0  
 3804 9.5 135432.1 -1029.1  
 3805 8.5 135435.8 -1022.7  
 3806 9.5 135440.8 -1024.5  
 3807 9.5 135441.3 -1038.2  
 3808 9.5 135443.7 -1053.7  
 3809 9.8 135455.3 -1055.0  
 3810 7.8 135453.9 -1016.2  
 3811 7.7 135548.1 -1001.6

3812 8.3 135610.0 -1024.3  
 3813 9.0 135638.4 -1047.7  
 3814 10. 135728.5 -1010.4  
 3815 10. 135734.4 -1014.0  
 3816 9.9 135741.0 -1006.4  
 3817 9.3 135743.5 -1046.9  
 3818 9.4 135748.3 -1059.8  
 3819 9.1 135748.4 -1047.4  
 3820 9.1 135817.2 -1054.0  
 3821 9.6 135837.0 -1035.3

3822 10. 135855.8 -1022.8  
 3823 7.8 135856.9 -1048.6  
 3824 9.1 135910.3 -1012.2  
 3825 10. 135942.8 -1029.6  
 3826 8.5 140008.2 -1027.9  
 3827 9.6 140025.7 -1054.2  
 3828 9.0 140046.1 -1031.6  
 3829 9.0 140102.4 -1052.5  
 3830 9.7 140105.8 -1021.6  
 3831 10. 140108.7 -1051.0

3832 9.8 140112.5 -1001.7  
 3833 9.9 140154.4 -1015.3  
 3834 10. 140156.8 -1020.2  
 3835 9.2 140156.9 -1023.3  
 3836 9.3 140223.8 -1039.1  
 3837 8.6 140248.9 -1042.0  
 3838 9.1 140254.8 -1057.4  
 3839 9.5 140305.3 -1024.4  
 3840 9.6 140306.4 -1036.6  
 3841 9.8 140329.3 -1026.4

3842 9.5 140404.2 -1017.6  
 3843 9.5 140437.3 -1043.9  
 3844 9.5 140443.3 -1029.7  
 3845 9.8 140454.2 -1056.0  
 3846 9.8 140502.8 -1025.9  
 3847 9.5 140509.3 -1016.8  
 3848 9.2 140536.0 -1024.9  
 3849 9.2 140538.3 -1024.0  
 3850 9.5 140541.3 -1017.8  
 3851 9.6 140605.0 -1056.7



-10 3852 14h06m

3852 9.6 140606.8 -1042.1  
3853 10. 140634.9 -1005.0  
3854 10. 140710.4 -1033.9  
3855 10. 140713.2 -1038.9  
3856 9.5 140726.4 -1008.3  
3857 9.4 140737.2 -1043.4  
3858 9.5 140753.9 -1001.8  
3859 9.5 140758.6 -1048.2  
3860 9.6 140810.5 -1013.6  
3861 9.2 140811.0 -1031.9

3862 9.6 140818.1 -1003.4  
3863 9.7 140858.2 -1018.3  
3864 10. 140912.1 -1048.9  
3865 9.2 140925.5 -1058.9  
3866 9.1 140936.5 -1055.7  
3867 9.4 141000.3 -1005.5  
3868 10. 141030.6 -1037.4  
3869 9.5 141032.2 -1007.6  
3870 9.7 141128.3 -1033.1  
3871 10. 141130.5 -1054.3

3872 9.8 141148.2 -1034.5  
3873 9.8 141151.6 -1012.8  
3874 10. 141202.5 -1059.2  
3875 9.5 141220.6 -1037.3  
3876 9.4 141223.3 -1023.5  
3877 9.4 141224.8 -1019.2  
3878 9.6 141245.1 -1019.7  
3879 9.4 141327.8 -1012.9  
3880 7.8 141329.6 -1043.9  
3881 9.8 141332.2 -1033.1

3882 8.0 141404.2 -1000.0  
3883 9.6 141441.1 -1046.0  
3884 9.1 141502.1 -1014.4  
3885 9.8 141504.0 -1042.3  
3886 10. 141504.7 -1003.6  
3887 9.3 141508.8 -1009.5  
3888 8.0 141511.2 -1005.0  
3889 9.8 141557.6 -1055.4  
3890 9.5 141628.7 -1008.5  
3891 9.0 141647.7 -1026.4

3892 9.2 141649.2 -1002.2  
3893 10. 141703.5 -1019.5  
3894 9.8 141707.0 -1046.2  
3895 9.8 141711.6 -1027.9  
3896 9.9 141725.9 -1051.5  
3897 9.9 141734.6 -1026.6  
3898 9.6 141747.7 -1059.1  
3899 9.9 141840.1 -1005.8  
3900 8.8 141850.4 -1058.4  
3901 9.5 141856.6 -1026.6

3902 9.5 141908.2 -1000.2  
3903 10. 141918.6 -1008.3  
3904 8.5 142000.4 -1040.2  
3905 9.6 142010.6 -1023.2  
3906 9.4 142021.0 -1054.8  
3907 9.4 142055.6 -1031.0  
3908 9.4 142056.4 -1024.8  
3909 9.8 142107.6 -1026.8  
3910 9.0 142144.3 -1007.4  
3911 10. 142225.0 -1007.9

3912 9.4 142227.0 -1032.2  
3913 10. 142229.6 -1006.3  
3914 9.8 142246.6 -1017.2  
3915 9.7 142325.9 -1044.2  
3916 9.8 142357.5 -1027.8  
3917 9.6 142359.0 -1025.9  
3918 9.3 142404.7 -1035.2  
3919 9.4 142421.4 -1016.0  
3920 8.2 142424.9 -1017.4  
3921 9.1 142433.1 -1022.0

3922 9.5 142518.3 -1005.0  
3923 9.3 142540.7 -1000.0  
3924 9.2 142627.7 -1015.3  
3925 9.0 142629.9 -1032.3  
3926 9.0 142636.0 -1021.5  
3927 8.8 142657.0 -1014.0  
3928 8.7 142718.9 -1053.5  
3929 9.7 142729.3 -1054.5  
3930 10. 142753.1 -1001.8  
3931 9.5 142758.3 -1045.9

3932 9.0 142839.3 -1027.5  
3933 9.3 142943.3 -1015.0  
3934 9.8 143021.7 -1055.5  
3935 9.5 143048.2 -1055.6  
3936 8.5 143126.2 -1058.0  
3937 9.5 143137.7 -1024.8  
3938 9.8 143142.8 -1037.1  
3939 10. 143243.5 -1055.4  
3940 9.0 143312.5 -1006.1  
3941 8.0 143329.7 -1044.4

3942 9.8 143342.7 -1033.4  
3943 8.5 143351.5 -1013.4  
3944 9.8 143357.8 -1044.8  
3945 9.7 143407.2 -1019.5  
3946 9.7 143439.2 -1044.7  
3947 8.6 143516.9 -1013.3  
3948 10. 143640.4 -1008.2  
3949 9.6 143644.7 -1047.5  
3950 8.5 143702.1 -1015.1  
3951 9.0 143703.3 -1036.6

3952 9.8 143711.8 -1013.3  
3953 9.6 143715.9 -1003.3  
3954 9.4 143718.1 -1023.4  
3955 9.3 143731.6 -1029.6  
3956 8.5 143748.7 -1048.2  
3957 8.9 143752.9 -1042.2  
3958 9.0 143829.1 -1028.8  
3959 9.8 143838.0 -1054.8  
3960 9.8 143845.5 -1055.5  
3961 9.0 143914.7 -1056.5

3962 8.1 143915.4 -1045.3  
3963 9.4 144000.1 -1041.0  
3964 9.1 144002.4 -1056.3  
3965 9.1 144031.0 -1023.4  
3966 9.5 144113.3 -1004.7  
3967 7.7 144121.4 -1013.0  
3968 9.8 144126.7 -1057.2  
3969 10. 144129.6 -1043.0  
3970 9.4 144141.5 -1022.7  
3971 9.8 144152.0 -1030.4

3972 9.4 144234.8 -1053.3  
3973 9.3 144319.7 -1019.3  
3974 9.8 144352.9 -1036.5  
3975 9.1 144407.5 -1044.3  
3976 8.0 144430.2 -1052.4  
3977 8.2 144437.0 -1036.1  
3978 9.3 144529.0 -1022.9  
3979 9.8 144536.5 -1006.4  
3980 9.8 144544.7 -1041.2  
3981 9.5 144623.0 -1014.4

3982 9.2 144631.6 -1014.3  
3983 9.8 144752.4 -1032.9  
3984 9.2 144809.6 -1013.9  
3985 9.5 144809.7 -1020.7  
3986 9.8 144841.4 -1030.0  
3987 9.2 144845.3 -1017.7  
3988 9.3 144848.0 -1046.0  
3989 5.5 144854.4 -1049.1  
3990 9.0 144911.6 -1055.4  
3991 9.3 145013.4 -1049.6

3992 9.0 145017.9 -1044.8  
3993 9.3 145022.9 -1045.9  
3994 7.0 145022.9 -1034.2  
3995 9.5 145023.3 -1054.9  
3996 9.3 145037.2 -1002.8  
3997 8.7 145041.4 -1023.9  
3998 10. 145044.0 -1007.9  
3999 6.2 145103.4 -1033.4  
4000 10. 145106.7 -1047.8  
4001 9.2 145120.6 -1053.2

4002 9.4 145148.2 -1001.7  
4003 9.2 145149.8 -1003.1  
4004 9.3 145153.4 -1058.8  
4005 9.3 145154.6 -1019.8  
4006 9.2 145201.5 -1036.6  
4007 7.5 145202.2 -1020.6  
4008 9.5 145205.3 -1006.5  
4009 9.8 145246.3 -1037.8  
4010 9.2 145246.6 -1006.4  
4011 9.3 145252.8 -1032.7

4012 9.1 145305.2 -1015.5  
4013 9.1 145359.9 -1031.2  
4014 10. 145435.1 -1047.1  
4015 9.8 145447.4 -1039.8  
4016 9.3 145455.8 -1007.4  
4017 9.2 145511.7 -1056.7  
4018 9.5 145538.1 -1040.5  
4019 8.0 145602.2 -1025.9  
4020 10. 145613.4 -1056.8  
4021 8.6 145625.7 -1027.2

4022 9.7 145644.8 -1017.3  
4023 10. 145645.8 -1057.4  
4024 9.8 145724.7 -1021.9  
4025 10. 145733.6 -1056.4  
4026 8.9 145735.2 -1001.6  
4027 9.8 145804.3 -1056.7  
4028 10. 145806.1 -1012.3  
4029 8.7 145814.0 -1038.0  
4030 9.0 145820.7 -1009.8  
4031 9.7 145825.8 -1042.5

4032 9.4 145836.0 -1037.1  
4033 10. 145842.7 -1042.5  
4034 9.7 145843.4 -1058.3  
4035 9.6 145850.6 -1039.9  
4036 9.4 145909.8 -1054.3  
4037 9.8 145946.7 -1029.1  
4038 9.8 145951.6 -1028.4  
4039 9.5 150010.6 -1034.2  
4040 9.3 150018.0 -1009.4  
4041 9.5 150022.7 -1025.3

4042 9.8 150119.6 -1048.1  
4043 9.8 150205.5 -1004.3  
4044 8.5 150206.2 -1042.4  
4045 9.0 150252.6 -1022.0  
4046 9.8 150253.8 -1055.0  
4047 9.8 150311.7 -1026.2  
4048 9.3 150315.5 -1004.1  
4049 7.8 150327.3 -1055.2  
4050 8.7 150329.1 -1030.5  
4051 9.7 150418.0 -1015.6

4052 9.8 150426.5 -1005.5  
4053 9.8 150436.6 -1022.7  
4054 10. 150451.9 -1055.0  
4055 7.0 150523.1 -1027.6  
4056 9.4 150528.8 -1054.6  
4057 9.3 150536.2 -1038.6  
4058 10. 150628.1 -1057.0  
4059 9.8 150639.9 -1004.5  
4060 10. 150652.6 -1032.7  
4061 9.2 150724.5 -1001.6

4062 10. 150728.6 -1023.3  
4063 8.5 150730.2 -1054.8  
4064 10. 150736.0 -1002.5  
4065 9.0 150751.2 -1008.0  
4066 9.8 150751.5 -1025.7  
4067 8.5 150814.5 -1003.2  
4068 9.5 150850.5 -1024.1  
4069 9.3 150851.3 -1029.2  
4070 9.6 150853.0 -1025.7  
4071 9.2 150901.6 -1028.6

4072 8.9 150928.5 -1041.8  
4073 9.5 151003.6 -1051.0  
4074 8.7 151010.0 -1030.0  
4075 9.3 151043.8 -1056.6  
4076 9.6 151105.0 -1033.4  
4077 10. 151110.5 -1001.4  
4078 10. 151122.0 -1007.2  
4079 9.5 151124.4 -1018.7  
4080 8.7 151126.5 -1039.2  
4081 9.5 151130.0 -1024.9

4082 9.5 151148.4 -1006.3  
4083 8.9 151158.0 -1038.7  
4084 8.6 151217.6 -1037.4  
4085 8.3 151237.9 -1030.0  
4086 9.1 151324.6 -1012.6  
4087 8.1 151341.4 -1057.5  
4088 8.0 151444.9 -1007.6  
4089 9.4 151447.8 -1039.5  
4090 8.0 151453.0 -1041.0  
4091 9.4 151500.9 -1023.6

4092 8.5 151511.8 -1055.9  
4093 9.4 151517.4 -1044.5  
4094 9.6 151557.7 -1030.9  
4095 8.8 151638.3 -1020.6  
4096 9.2 151638.5 -1031.3  
4097 9.2 151656.4 -1014.1  
4098 7.8 151719.3 -1028.4  
4099 9.1 151721.3 -1037.0  
4100 9.5 151733.9 -1002.7  
4101 9.8 151741.4 -1014.1

4102 9.2 151800.5 -1016.0  
4102a 9.5 151803.4 -1035.7  
4103 9.1 151805.6 -1037.9  
4104 9.5 151806.5 -1000.6  
4105 9.8 151924.8 -1014.0  
4106 9.1 151931.8 -1054.9  
4107 7.5 151937.7 -1026.9  
4108 7.5 152018.3 -1056.7  
4109 9.9 152041.6 -1049.8  
4110 10. 152106.4 -1021.1

4111 10. 152109.8 -1007.7  
4112 9.7 152111.3 -1010.4  
4113 9.5 152122.6 -1028.1  
4114 9.5 152123.8 -1009.6  
4115 9.5 152216.3 -1044.3  
4116 9.8 152239.9 -1018.1  
4117 9.7 152242.8 -1021.5  
4118 9.4 152259.1 -1059.8  
4119 8.1 152343.2 -1045.0  
4120 9.2 152350.2 -1040.8

-10 4210 15h49m

4121 9.1 152444.2 -1041.4  
4122 8.5 152539.3 -1034.6  
4123 9.6 152546.7 -1003.4  
4124 9.6 152643.5 -1021.0  
4125 8.9 152703.4 -1002.3  
4126 9.2 152751.2 -1051.5  
4127 9.5 152823.2 -1056.5  
4128 9.5 152844.4 -1057.7  
4129 9.8 152858.2 -1008.7  
4130 9.3 152907.1 -1034.6

4131 9.6 152918.6 -1009.5  
4132 9.0 152924.4 -1007.5  
4133 9.6 152926.2 -1040.0  
4134 9.4 152935.2 -1009.8  
4135 9.9 153016.2 -1010.8  
4136 9.4 153034.8 -1019.0  
4137 10. 153048.3 -1019.3  
4138 9.5 153118.0 -1048.4  
4139 9.7 153137.9 -1022.6  
4140 8.8 153141.3 -1032.3

4141 9.1 153214.7 -1002.7  
4142 9.5 153234.4 -1009.7  
4143 8.5 153237.1 -1024.6  
4144 9.5 153253.6 -1018.5  
4145 9.0 153402.6 -1050.6  
4146 8.3 153405.1 -1040.3  
4147 10. 153444.2 -1013.1  
4148 9.4 153501.0 -1058.4  
4149 7.0 153517.0 -1027.7  
4150 10. 153534.1 -1008.8

4151 9.9 153536.1 -1017.7  
4152 9.5 153545.6 -1055.7  
4153 9.8 153602.6 -1014.9  
4154 8.4 153605.5 -1023.0  
4155 8.8 153606.2 -1046.7  
4156 10. 153617.5 -1022.2  
4157 9.9 153621.1 -1055.1  
4158 9.6 153633.6 -1006.9  
4159 9.6 153635.3 -1057.4  
4160 9.5 153745.7 -1002.8

4161 9.6 153751.5 -1030.6  
4162 9.2 153839.6 -1052.3  
4163 9.9 153845.0 -1025.8  
4164 9.5 153907.6 -1053.4  
4165 9.1 153915.4 -1010.1  
4166 9.9 153955.0 -1014.9  
4167 10. 154013.9 -1045.4  
4168 9.4 154058.4 -1032.9  
4169 9.7 154109.7 -1011.3  
4170 9.5 154122.4 -1036.6

4171 9.7 154136.3 -1016.2  
4172 9.0 154138.4 -1023.6  
4173 9.3 154202.5 -1051.4  
4174 8.6 154204.4 -1036.7  
4175 9.5 154207.6 -1052.5  
4176 8.7 154251.7 -1016.6  
4177 9.6 154301.5 -1054.2  
4178 8.0 154302.2 -1032.8  
4179 9.0 154334.9 -1024.7  
4180 8.9 154346.5 -1042.6

4181 9.4 154352.0 -1041.7  
4182 9.4 154420.8 -1022.5  
4183 9.4 154423.4 -1041.7  
4184 9.2 154427.9 -1027.7  
4185 9.7 154440.3 -1019.6  
4186 9.4 154503.7 -1023.5  
4187 9.3 154510.0 -1051.1  
4188 9.1 154516.5 -1005.2  
4189 9.5 154526.9 -1048.8  
4190 10. 154541.0 -1055.3

4191 9.0 154544.9 -1007.3  
4192 9.0 154559.0 -1013.1  
4193 8.9 154600.5 -1055.0  
4194 10. 154609.8 -1024.7  
4195 8.8 154616.8 -1039.4  
4196 9.8 154617.2 -1009.8  
4197 9.2 154619.3 -1029.5  
4198 9.7 154633.8 -1010.4  
4199 10. 154641.8 -1003.8  
4200 10. 154717.4 -1051.9

4201 9.5 154725.8 -1040.2  
4202 9.6 154729.5 -1037.6  
4203 9.6 154731.1 -1004.8  
4204 9.0 154748.3 -1031.4  
4205 9.5 154826.7 -1025.6  
4206 8.5 154834.7 -1040.3  
4207 8.5 154842.3 -1033.1  
4208 10. 154848.3 -1047.6  
4209 8.9 154904.7 -1037.1  
4210 9.7 154905.4 -1002.7



-10 4211 15h49m

4211 7.5 154911.7 -1027.6  
4212 10. 154923.9 -1005.5  
4213 9.8 154935.9 -1014.4  
4214 9.0 154951.9 -1042.2  
4215 9.8 154956.8 -1032.2  
4216 8.0 155115.8 -1031.6  
4217 9.8 155138.3 -1051.3  
4218 9.2 155139.7 -1023.9  
4219 9.0 155145.2 -1023.4  
4220 9.2 155206.3 -1010.0

4221 9.6 155303.5 -1019.1  
4222 9.8 155314.5 -1006.6  
4223 9.8 155320.3 -1053.6  
4224 9.4 155322.8 -1031.9  
4225 9.7 155335.3 -1056.9  
4226 8.5 155335.9 -1051.8  
4227 8.6 155402.6 -1053.0  
4228 9.8 155404.6 -1042.9  
4229 9.3 155418.7 -1017.5  
4230 9.0 155451.7 -1013.3

4231 9.5 155501.1 -1018.6  
4232 10. 155512.0 -1056.3  
4233 9.0 155528.0 -1058.0  
4234 9.3 155550.6 -1054.3  
4235 9.2 155601.8 -1049.2  
4236 9.5 155622.8 -1051.4  
4237 4.4 155624.5 -1057.8  
4238 9.8 155625.7 -1019.7  
4239 9.6 155655.6 -1041.9  
4240 9.6 155700.9 -1033.6

4241 8.6 155704.0 -1049.2  
4242 8.7 155749.0 -1024.3  
4243 9.1 155814.2 -1035.9  
4244 9.0 155814.8 -1028.8  
4245 9.9 155818.7 -1055.2  
4246 9.0 155843.5 -1007.9  
4247 9.8 155845.4 -1000.4  
4248 9.4 155847.0 -1018.1  
4249 10. 155900.9 -1003.2  
4250 10. 155905.7 -1000.0

4251 9.1 155907.6 -1047.0  
4252 9.0 155948.1 -1004.2  
4253 9.3 160020.7 -1016.8  
4254 9.4 160059.3 -1013.9  
4255 8.2 160111.8 -1033.4  
4256 9.4 160117.6 -1027.3  
4257 9.8 160146.0 -1032.5  
4258 8.0 160152.4 -1045.1  
4259 9.6 160217.7 -1008.4  
4260 10. 160218.9 -1023.8

4261 9.8 160233.8 -1045.3  
4262 9.6 160248.7 -1009.6  
4263 9.5 160313.5 -1015.8  
4264 8.3 160332.9 -1052.9  
4265 8.7 160400.6 -1014.7  
4266 8.8 160402.9 -1022.9  
4267 8.0 160421.8 -1049.6  
4268 8.5 160431.4 -1006.6  
4269 9.5 160505.3 -1044.5  
4270 9.9 160521.3 -1054.3

4271 9.7 160530.7 -1021.7  
4272 9.6 160530.9 -1027.8  
4273 9.5 160549.9 -1012.9  
4274 9.2 160550.6 -1012.1  
4275 9.4 160611.4 -1040.0  
4276 7.7 160620.0 -1002.6  
4277 9.0 160630.3 -1050.5  
4278 8.3 160635.6 -1017.5  
4279 9.6 160712.8 -1046.0  
4280 7.5 160727.6 -1040.2

4281 9.1 160743.0 -1027.3  
4282 9.7 160821.4 -1018.3  
4283 10. 160829.4 -1011.8  
4284 9.9 160836.7 -1020.3  
4285 9.9 160838.6 -1039.9  
4286 9.5 160841.0 -1019.8  
4287 9.4 160854.8 -1017.3  
4288 9.4 160938.9 -1019.2  
4289 9.8 161012.6 -1055.7  
4290 9.7 161041.5 -1043.8

4291 8.7 161044.3 -1056.0  
4292 9.0 161051.4 -1025.7  
4293 9.5 161058.8 -1038.2  
4294 9.4 161133.8 -1038.2  
4295 9.6 161216.5 -1016.9  
4296 9.1 161236.4 -1023.5  
4297 8.9 161249.3 -1050.7  
4298 9.8 161312.3 -1042.7  
4299 9.5 161316.4 -1011.7  
4300 9.0 161321.8 -1031.7

4301 9.5 161329.2 -1050.5  
4302 8.8 161336.9 -1006.0  
4303 9.5 161341.8 -1026.7  
4304 9.5 161359.4 -1005.5  
4305 7.9 161435.2 -1058.9  
4306 9.1 161448.1 -1055.3  
4307 9.4 161509.4 -1023.0  
4308 9.0 161557.9 -1041.6  
4309 7.8 161605.1 -1041.2  
4310 9.5 161609.3 -1055.4

4311 9.0 161613.8 -1052.6  
4312 9.5 161634.6 -1037.6  
4313 10. 161700.0 -1031.8  
4314 9.4 161704.9 -1025.9  
4315 9.8 161834.8 -1040.9  
4316 9.5 161856.4 -1042.8  
4317 9.2 161905.3 -1049.4  
4318 9.5 161918.9 -1042.9  
4319 9.0 161920.9 -1027.4  
4320 8.5 161946.8 -1051.4

4321 9.6 161957.4 -1023.3  
4322 8.3 162055.5 -1000.8  
4323 9.5 162122.3 -1052.3  
4324 9.0 162127.2 -1053.7  
4325 10. 162137.8 -1033.4  
4326 9.8 162141.8 -1008.0  
4327 7.0 162149.5 -1048.2  
4328 9.5 162208.3 -1048.0  
4329 7.5 162228.4 -1007.1  
4330 9.5 162239.4 -1024.0

4331 8.7 162243.4 -1020.0  
4332 8.7 162249.1 -1029.1  
4333 9.9 162317.8 -1024.4  
4334 9.5 162435.4 -1009.6  
4335 9.8 162447.9 -1054.0  
4336 6.9 162457.4 -1015.0  
4337 9.8 162537.8 -1053.7  
4338 8.5 162552.2 -1027.1  
4339 8.0 162610.0 -1022.2  
4340 8.4 162612.9 -1011.0

4341 9.8 162615.0 -1032.5  
4342 9.7 162615.1 -1052.4  
4343 8.9 162618.4 -1003.6  
4344 9.5 162623.6 -1018.8  
4345 9.4 162657.8 -1057.1  
4346 10. 162711.9 -1046.0  
4347 9.4 162753.3 -1047.1  
4348 9.5 162826.6 -1015.0  
4349 9.8 162906.0 -1025.7  
4350 3.0 162911.0 -1016.3

4351 9.3 162923.4 -1005.0  
4352 9.6 162925.3 -1027.2  
4353 9.2 162945.9 -1053.2  
4354 8.7 163037.6 -1033.4  
4355 9.4 163039.0 -1044.7  
4356 10. 163041.2 -1011.8  
4357 9.4 163048.3 -1036.1  
4358 9.0 163051.3 -1009.2  
4359 9.7 163100.6 -1040.7  
4360 9.6 163104.4 -1014.5

4361 9.8 163115.2 -1050.4  
4362 9.8 163137.9 -1012.4  
4363 9.6 163147.6 -1015.6  
4364 9.7 163151.6 -1040.4  
4365 10. 163156.8 -1028.0  
4366 9.2 163234.2 -1041.8  
4367 9.7 163255.3 -1024.2  
4368 9.6 163313.4 -1034.1  
4369 9.8 163345.6 -1017.5  
4370 9.7 163348.2 -1037.3

4371 9.6 163401.7 -1058.9  
4372 9.8 163413.2 -1051.8  
4373 7.1 163434.8 -1053.2  
4374 9.3 163454.4 -1010.5  
4375 10. 163510.8 -1010.2  
4376 9.4 163533.6 -1056.9  
4377 9.4 163535.7 -1005.1  
4378 9.8 163600.3 -1015.8  
4379 9.8 163607.1 -1047.1  
4380 9.7 163624.6 -1057.9

4381 10. 163648.7 -1012.2  
4382 9.6 163701.1 -1021.9  
4383 7.8 163722.2 -1023.5  
4384 8.2 163734.9 -1039.2  
4385 10. 163807.1 -1038.6  
4386 9.5 163831.7 -1011.1  
4387 9.5 163852.3 -1023.7  
4388 8.3 163856.1 -1052.4  
4389 9.2 163927.7 -1058.6  
4390 8.7 163934.1 -1015.5

4391 9.5 163945.7 -1006.6  
4392 9.1 164016.6 -1002.8  
4393 9.4 164135.0 -1010.2  
4394 5.1 164149.4 -1031.1  
4395 9.1 164153.8 -1055.4  
4396 9.2 164211.1 -1024.7  
4397 9.7 164217.5 -1045.4  
4398 9.8 164304.4 -1023.1  
4399 9.1 164352.3 -1023.1  
4400 9.8 164359.8 -1002.7

4401 9.5 164447.9 -1015.4  
4402 9.7 164449.3 -1057.2  
4403 8.3 164532.5 -1030.8  
4404 9.7 164537.7 -1039.1  
4405 9.5 164604.0 -1057.2  
4406 10. 164651.4 -1018.2  
4407 9.4 164705.7 -1057.4  
4408 9.4 164715.5 -1037.8  
4409 9.0 164730.6 -1010.6  
4410 9.4 164733.7 -1058.8

4411 9.5 164750.1 -1003.0  
4412 10. 164840.7 -1020.6  
4413 8.7 164843.1 -1043.1  
4414 9.7 164852.6 -1056.9  
4415 9.8 164916.2 -1055.7  
4416 9.7 164920.6 -1010.0  
4417 6.8 164925.1 -1043.8  
4418 8.0 165012.5 -1018.8  
4419 10. 165032.9 -1054.6  
4420 9.1 165149.0 -1042.3

4421 9.8 165158.1 -1056.8  
4422 9.9 165229.3 -1044.6  
4423 8.3 165233.7 -1051.2  
4424 10. 165241.5 -1029.4  
4425 7.8 165422.4 -1044.4  
4426 9.3 165444.7 -1019.2  
4427 9.8 165458.3 -1032.2  
4428 9.8 165509.1 -1057.8  
4429 9.5 165512.2 -1045.6  
4430 9.5 165521.3 -1012.3

4431 9.6 165523.5 -1006.2  
4432 9.8 165601.2 -1044.7  
4433 9.6 165604.5 -1025.4  
4434 9.8 165605.5 -1042.7  
4435 9.4 165625.2 -1056.6  
4436 7.0 165632.3 -1052.4  
4437 9.4 165638.8 -1033.5  
4438 9.8 165731.9 -1001.6  
4439 9.5 165810.0 -1026.6  
4440 7.8 165828.4 -1036.2

4441 7.2 165842.1 -1022.3  
4442 4.8 165931.9 -1038.8  
4443 9.5 170007.7 -1047.4  
4444 9.5 170116.9 -1042.5  
4445 6.1 170147.6 -1019.7  
4446 9.0 170213.8 -1047.0  
4447 8.4 170233.5 -1041.3  
4448 9.6 170312.1 -1013.9  
4449 8.6 170338.4 -1027.1  
4450 9.4 170348.0 -1014.6

4451 9.9 170411.5 -1017.7  
4452 9.2 170429.9 -1037.7  
4453 7.8 170430.5 -1005.9  
4454 9.5 170433.1 -1007.1  
4455 9.3 170450.3 -1034.3  
4456 8.5 170500.5 -1030.4  
4457 10. 170501.8 -1024.3  
4458 9.1 170519.8 -1010.4  
4459 9.4 170531.9 -1001.1  
4460 9.0 170533.8 -1005.4

4461 9.1 170607.8 -1041.5  
4462 7.5 170734.4 -1007.7  
4463 9.3 170808.8 -1043.2  
4464 8.3 170856.0 -1044.0  
4465 8.2 170901.1 -1030.0  
4466 9.3 170911.1 -1037.0  
4467 8.6 170925.4 -1041.1  
4468 9.0 170957.5 -1012.0  
4469 9.2 171004.0 -1058.2  
4470 7.3 171040.5 -1003.4

4471 9.3 171108.7 -1058.3  
4472 9.7 171112.8 -1029.4  
4473 9.8 171121.0 -1029.2  
4474 9.6 171140.3 -1008.9  
4475 9.8 171204.7 -1058.5  
4476 8.7 171207.8 -1032.9  
4477 6.7 171250.8 -1032.6  
4478 9.2 171308.3 -1058.1  
4479 8.3 171339.7 -1054.7  
4480 9.4 171350.8 -1038.7

-10 4570 17h49m

4481 9.4 171417.9 -1028.6  
4482 9.1 171449.3 -1032.2  
4483 9.8 171455.5 -1028.6  
4484 8.9 171509.4 -1016.0  
4485 9.2 171528.8 -1031.9  
4486 9.6 171536.8 -1020.4  
4487 9.5 171642.7 -1035.4  
4488 9.4 171701.0 -1056.0  
4489 10. 171722.0 -1019.4  
4490 9.5 171731.5 -1015.0

4491 10. 171736.1 -1024.7  
4492 9.1 171811.8 -1034.5  
4493 7.5 171814.7 -1051.7  
4494 9.4 171828.6 -1017.0  
4495 9.7 171918.3 -1018.0  
4496 9.3 171938.8 -1038.3  
4497 8.9 171955.6 -1018.3  
4498 9.3 172010.0 -1054.7  
4499 9.2 172040.3 -1024.2  
4500 9.9 172052.2 -1014.1

4501 8.8 172108.6 -1039.5  
4502 9.7 172114.1 -1025.4  
4503 9.2 172121.9 -1014.4  
4504 9.2 172223.9 -1048.8  
4505 9.7 172242.6 -1044.8  
4506 9.2 172251.5 -1046.8  
4507 7.7 172315.0 -1051.1  
4508 10. 172325.8 -1035.8  
4509 9.3 172328.5 -1012.7  
4510 9.4 172328.9 -1001.0

4511 9.2 172336.3 -1003.4  
4512 8.1 172352.9 -1020.5  
4513 9.8 172355.7 -1056.8  
4514 8.7 172406.1 -1026.5  
4515 9.7 172422.4 -1013.9  
4516 10. 172447.9 -1035.7  
4517 9.3 172448.4 -1008.8  
4518 9.3 172518.1 -1018.6  
4519 9.5 172532.0 -1052.8  
4520 9.1 172554.3 -1055.8

4521 9.8 172654.7 -1035.2  
4522 9.2 172750.2 -1013.7  
4523 9.5 172801.7 -1051.7  
4524 9.9 172803.9 -1042.7  
4525 9.4 172838.5 -1056.1  
4526 9.5 172911.7 -1017.4  
4527 10. 172952.9 -1016.0  
4528 6.5 173006.8 -1049.9  
4529 9.8 173038.5 -1059.0  
4530 8.7 173051.8 -1047.7

4531 9.4 173100.0 -1048.3  
4532 8.8 173118.8 -1037.0  
4533 9.3 173126.5 -1023.5  
4534 9.1 173211.4 -1033.6  
4535 9.5 173237.8 -1045.1  
4536 9.4 173231.2 -1012.4  
4537 9.0 173331.1 -1014.8  
4538 10. 173403.7 -1056.6  
4539 9.6 173432.9 -1028.5  
4540 8.4 173452.2 -1043.0

4541 9.3 173530.4 -1054.7  
4542 9.4 173532.1 -1048.0  
4543 9.5 173622.0 -1003.9  
4544 9.4 173623.2 -1043.7  
4545 7.6 173634.1 -1016.0  
4546 7.0 173749.7 -1017.0  
4547 9.4 173859.8 -1043.5  
4548 9.7 173917.7 -1018.8  
4549 9.4 173925.6 -1052.3  
4550 9.3 173946.7 -1033.4

4551 9.5 173947.1 -1017.3  
4552 9.5 174001.0 -1034.4  
4553 7.8 174037.7 -1013.1  
4554 8.9 174125.3 -1043.3  
4555 9.8 174126.4 -1015.6  
4556 8.8 174137.6 -1053.7  
4557 8.4 174145.0 -1025.4  
4558 9.9 174155.2 -1050.8  
4559 9.5 174344.0 -1004.7  
4560 6.5 174459.2 -1051.6

4561 7.8 174510.0 -1019.8  
4562 9.7 174544.7 -1015.8  
4563 10. 174616.7 -1015.0  
4564 9.1 174758.3 -1021.7  
4565 8.5 174826.8 -1009.4  
4566 9.8 174850.5 -1007.1  
4567 9.7 174851.4 -1002.0  
4568 9.7 174852.0 -1018.7  
4569 9.0 174903.5 -1055.9  
4570 9.1 174948.7 -1020.4



-10 4571 17h49m

4571 9.5 174952.3 -1014.0  
4572 9.5 175017.4 -1035.5  
4573 9.7 175106.9 -1008.8  
4574 9.5 175111.5 -1036.0  
4575 10. 175157.8 -1042.6  
4576 9.8 175219.8 -1004.8  
4577 9.3 175232.2 -1053.7  
4578 9.6 175234.1 -1026.4  
4579 9.5 175243.5 -1019.8  
4580 9.0 175249.5 -1055.9

4581 9.0 175254.5 -1011.2  
4582 9.8 175300.3 -1019.5  
4583 7.6 175330.2 -1013.2  
4584 9.2 175332.8 -1015.9  
4585 9.6 175342.3 -1047.9  
4586 9.2 175411.7 -1011.5  
4587 9.0 175419.5 -1030.3  
4588 8.3 175424.8 -1006.5  
4589 9.7 175455.3 -1009.3  
4590 8.4 175502.6 -1025.5

4591 9.8 175507.8 -1015.2  
4592 8.9 175512.2 -1051.7  
4593 9.8 175516.3 -1018.7  
4594 9.5 175528.7 -1026.5  
4595 9.4 175534.0 -1016.1  
4596 9.6 175557.7 -1016.0  
4597 9.4 175601.1 -1053.3  
4598 7.4 175617.0 -1054.5  
4599 9.6 175623.5 -1040.8  
4600 8.9 175631.7 -1047.0

4601 9.7 175648.1 -1010.4  
4602 8.5 175704.6 -1030.8  
4603 9.8 175725.7 -1034.8  
4604 9.5 175731.9 -1044.7  
4605 9.8 175734.2 -1035.8  
4606 9.5 175737.4 -1006.7  
4607 9.2 175749.3 -1002.9  
4608 9.5 175753.8 -1009.2  
4609 9.5 175803.7 -1045.2  
4610 9.9 175809.3 -1011.9

4611 8.7 175833.1 -1011.9  
4612 8.7 175835.7 -1047.9  
4613 10. 175913.8 -1018.4  
4614 9.6 175930.6 -1023.7  
4615 9.6 175949.4 -1005.5  
4616 8.0 180015.7 -1033.9  
4617 9.3 180026.2 -1059.7  
4618 9.4 180042.3 -1012.2  
4619 8.5 180130.6 -1050.4  
4620 9.3 180139.1 -1042.7

4621 9.6 180314.8 -1009.5  
4622 9.0 180330.7 -1017.4  
4623 9.5 180334.9 -1055.0  
4624 9.0 180408.9 -1003.8  
4625 8.2 180422.2 -1045.6  
4626 9.3 180423.2 -1055.8  
4627 9.4 180445.7 -1011.7  
4628 9.8 180449.8 -1006.6  
4629 9.0 180459.6 -1029.5  
4630 9.3 180544.1 -1026.7

4631 10. 180616.0 -1002.0  
4632 8.8 180620.7 -1043.0  
4633 10. 180621.3 -1038.2  
4634 9.5 180647.4 -1021.8  
4635 9.8 180653.5 -1027.9  
4636 9.4 180656.4 -1058.2  
4637 9.3 180722.4 -1000.6  
4638 9.4 180732.6 -1052.3  
4639 9.0 180758.8 -1008.0  
4640 9.5 180807.7 -1022.3

4641 9.8 180848.6 -1023.7  
4642 8.0 180852.2 -1030.0  
4643 9.5 180902.4 -1057.1  
4644 9.5 180943.6 -1056.7  
4645 9.7 180949.4 -1014.6  
4646 8.6 181028.4 -1054.6  
4647 9.0 181033.7 -1024.8  
4648 9.5 181103.9 -1005.2  
4649 8.8 181125.7 -1046.0  
4650 8.8 181126.2 -1030.5

4651 8.4 181133.1 -1059.1  
4652 8.2 181144.3 -1056.7  
4653 8.3 181148.7 -1031.5  
4654 9.2 181155.8 -1043.7  
4655 9.5 181202.9 -1001.2  
4656 9.1 181202.9 -1002.3  
4657 9.3 181206.4 -1002.3  
4658 9.1 181209.8 -1019.3  
4659 9.8 181216.1 -1039.8  
4660 9.7 181219.8 -1058.7

4661 9.2 181221.3 -1047.9  
4662 9.5 181222.9 -1014.9  
4663 9.4 181250.0 -1001.7  
4664 10. 181309.8 -1010.4  
4665 9.9 181311.4 -1002.6  
4666 10. 181330.6 -1027.5  
4667 9.1 181422.9 -1009.6  
4668 9.8 181425.5 -1028.8  
4669 9.2 181426.8 -1011.7  
4670 8.4 181430.5 -1023.5

4671 9.4 181445.0 -1004.7  
4672 9.4 181453.3 -1020.1  
4673 6.4 181501.5 -1017.0  
4674 10. 181511.4 -1058.5  
4675 9.5 181514.8 -1049.5  
4676 9.5 181522.4 -1047.8  
4677 9.9 181540.3 -1023.7  
4678 9.1 181549.8 -1013.8  
4679 9.2 181559.2 -1010.4  
4680 9.0 181605.9 -1046.0

4681 9.5 181616.8 -1026.0  
4682 9.0 181618.2 -1053.0  
4683 10. 181623.5 -1003.4  
4684 8.3 181628.5 -1029.1  
4685 9.8 181643.9 -1055.4  
4686 9.7 181656.2 -1033.2  
4687 9.2 181705.7 -1012.8  
4688 9.2 181705.9 -1004.3  
4689 9.7 181707.9 -1029.2  
4690 9.1 181711.9 -1006.1

4691 9.8 181720.3 -1046.5  
4692 9.8 181819.8 -1046.0  
4693 10. 181833.6 -1019.7  
4694 9.5 181838.3 -1048.5  
4695 9.4 181846.6 -1009.3  
4696 9.0 181914.6 -1014.6  
4697 9.4 181915.8 -1038.8  
4698 9.2 181934.3 -1044.5  
4699 9.4 181944.4 -1007.3  
4700 9.6 182013.8 -1044.0

4701 9.6 182020.9 -1017.4  
4702 9.7 182024.9 -1014.8  
4703 9.3 182032.1 -1054.7  
4704 9.1 182042.0 -1003.3  
4705 8.1 182046.5 -1018.8  
4706 9.9 182115.0 -1019.4  
4707 8.8 182141.4 -1023.1  
4708 9.1 182149.9 -1045.7  
4709 7.7 182229.5 -1057.6  
4710 9.5 182257.1 -1055.7

4711 9.5 182304.0 -1034.4  
4712 9.8 182321.0 -1001.2  
4713 5.5 182323.9 -1051.7  
4714 9.6 182325.1 -1043.1  
4715 9.4 182354.3 -1030.2  
4716 9.1 182408.2 -1016.8  
4717 8.5 182500.4 -1048.4  
4718 9.0 182523.0 -1032.6  
4719 8.8 182548.0 -1004.8  
4720 9.0 182555.9 -1044.4

4721 9.5 182605.0 -1013.6  
4722 9.0 182625.5 -1010.2  
4723 8.0 182634.9 -1038.1  
4724 9.5 182636.9 -1053.5  
4725 8.7 182723.6 -1016.0  
4726 9.0 182755.4 -1038.8  
4727 8.1 182805.2 -1059.9  
4728 9.1 182813.0 -1041.3  
4729 9.4 182856.9 -1045.0  
4730 9.4 182928.1 -1016.8

4731 10. 182930.0 -1007.0  
4732 8.8 182940.0 -1050.7  
4733 9.5 182946.4 -1010.2  
4734 9.6 182950.0 -1038.1  
4735 9.8 182950.0 -1026.0  
4736 9.4 183009.5 -1019.4  
4737 9.5 183011.4 -1038.1  
4738 9.0 183030.9 -1007.9  
4739 9.3 183101.8 -1056.8  
4740 9.8 183110.5 -1006.3

4741 9.7 183114.5 -1036.2  
4742 9.8 183125.1 -1011.7  
4743 9.9 183133.6 -1035.7  
4744 9.5 183142.4 -1039.2  
4745 9.8 183143.2 -1031.1  
4746 9.5 183154.4 -1008.1  
4747 8.9 183159.3 -1019.7  
4748 9.1 183220.5 -1019.5  
4749 8.7 183230.5 -1050.5  
4750 9.5 183234.0 -1023.2

4751 9.4 183251.0 -1022.1  
4752 9.4 183256.1 -1039.8  
4753 9.5 183302.7 -1015.9  
4754 9.8 183312.9 -1054.9  
4755 9.5 183318.5 -1030.2  
4756 8.3 183326.0 -1031.8  
4757 9.0 183352.4 -1041.7  
4758 10. 183414.4 -1030.6  
4759 9.0 183424.1 -1013.8  
4760 9.0 183431.0 -1033.9

4761 9.8 183442.5 -1046.6  
4762 9.4 183449.0 -1026.3  
4763 9.8 183449.7 -1047.7  
4764 8.7 183459.9 -1007.7  
4765 10. 183508.0 -1057.7  
4766 10. 183517.4 -1011.6  
4767 9.4 183526.0 -1059.4  
4768 8.3 183540.0 -1052.3  
4769 9.8 183545.6 -1042.5  
4770 10. 183548.3 -1058.2

4771 8.5 183600.0 -1017.9  
4772 9.4 183606.7 -1057.3  
4773 9.5 183607.5 -1002.8  
4774 9.7 183610.5 -1050.9  
4775 9.6 183611.0 -1055.0  
4776 8.3 183638.0 -1035.0  
4777 8.5 183639.4 -1045.0  
4778 9.6 183644.3 -1018.4  
4779 9.0 183645.4 -1040.8  
4780 9.5 183717.6 -1058.7

4781 9.7 183724.3 -1015.3  
4782 9.3 183729.3 -1059.0  
4783 9.7 183731.4 -1017.0  
4784 9.2 183731.7 -1040.5  
4785 9.8 183734.5 -1046.8  
4786 9.2 183749.3 -1056.1  
4787 7.0 183751.0 -1038.3  
4788 8.5 183755.8 -1008.8  
4789 9.5 183756.5 -1023.7  
4790 9.8 183800.7 -1049.1

4791 9.4 183800.8 -1023.7  
4792 8.2 183802.7 -1025.9  
4793 8.5 183824.5 -1028.7  
4794 9.5 183825.0 -1003.1  
4795 9.7 183828.2 -1056.8  
4796 9.6 183843.0 -1004.5  
4797 6.1 183843.3 -1016.5  
4798 10. 183845.9 -1025.6  
4799 9.5 183846.3 -1031.1  
4800 9.4 183914.2 -1034.5

4801 9.6 183923.4 -1026.6  
4802 9.4 183949.5 -1031.4  
4803 9.5 183959.1 -1041.5  
4804 8.5 184001.2 -1018.0  
4805 9.4 184001.7 -1050.6  
4806 9.5 184029.6 -1045.7  
4807 9.7 184037.5 -1055.9  
4808 9.9 184037.6 -1031.8  
4809 9.6 184054.4 -1019.5  
4810 9.9 184055.4 -1037.8

4811 9.5 184057.0 -1036.9  
4812 9.4 184058.5 -1005.1  
4813 9.3 184110.4 -1059.0  
4814 9.4 184111.4 -1023.7  
4815 8.7 184112.5 -1006.0  
4816 9.0 184113.6 -1044.6  
4817 9.0 184115.7 -1022.9  
4818 9.7 184117.7 -1053.2  
4819 7.8 184131.1 -1032.6  
4820 9.2 184132.7 -1022.3

4821 9.5 184136.1 -1032.8  
4822 9.8 184158.4 -1020.7  
4823 8.9 184217.6 -1042.5  
4824 9.4 184233.1 -1044.2  
4825 9.0 184236.7 -1017.4  
4826 9.4 184246.5 -1001.2  
4827 10. 184255.7 -1023.8  
4828 8.6 184307.8 -1023.7  
4829 9.8 184307.6 -1027.8  
4830 9.5 184317.6 -1029.0

4831 9.7 184319.7 -1052.4  
4832 9.1 184322.1 -1038.4  
4833 9.4 184329.7 -1014.2  
4834 9.5 184331.1 -1033.7  
4835 8.6 184339.9 -1057.2  
4836 9.5 184344.6 -1040.7  
4837 9.4 184344.9 -1019.0  
4838 9.2 184405.7 -1008.7  
4839 9.5 184420.4 -1020.3  
4840 9.5 184427.9 -1033.3

-10 4930 18h55m

4841 8.6 184435.4 -1022.9  
4842 9.4 184448.6 -1031.1  
4843 10. 184452.0 -1035.5  
4844 9.2 184453.3 -1031.0  
4845 10. 184453.6 -1005.7  
4846 9.9 184454.5 -1012.0  
4847 9.8 184455.7 -1002.9  
4848 8.0 184514.4 -1024.0  
4849 10. 184530.5 -1006.0  
4850 10. 184531.6 -1017.3

4851 9.4 184534.2 -1045.7  
4852 9.0 184551.6 -1026.3  
4853 9.2 184601.1 -1013.7  
4854 9.3 184611.4 -1057.9  
4855 8.8 184612.2 -1041.5  
4856 9.6 184613.7 -1055.1  
4857 9.5 184619.7 -1040.4  
4858 9.3 184627.3 -1055.8  
4859 9.0 184636.0 -1007.3  
4860 9.3 184636.6 -1026.9

4861 9.2 184643.1 -1054.4  
4862 9.0 184650.2 -1053.5  
4863 7.4 184653.7 -1041.2  
4864 9.8 184701.7 -1021.0  
4865 9.5 184703.4 -1040.7  
4866 9.6 184710.5 -1008.6  
4867 8.8 184714.7 -1035.9  
4868 9.5 184716.3 -1004.8  
4869 9.3 184722.5 -1018.7  
4870 8.8 184731.0 -1008.2

4871 9.7 184755.1 -1055.6  
4872 9.5 184813.9 -1012.5  
4873 9.4 184816.5 -1056.3  
4874 9.8 184816.5 -1006.1  
4875 9.5 184830.2 -1034.6  
4876 9.0 184830.9 -1042.4  
4877 10. 184857.9 -1052.9  
4878 9.0 184859.1 -1055.0  
4879 9.1 184904.8 -1008.2  
4880 10. 184913.4 -1035.1

4881 9.7 184928.6 -1016.5  
4882 9.7 184929.5 -1007.4  
4883 8.6 184936.9 -1012.1  
4884 9.3 184941.1 -1025.3  
4885 9.5 184942.2 -1018.4  
4886 9.4 185002.2 -1026.2  
4887 9.5 185006.7 -1026.0  
4888 9.8 185008.3 -1055.8  
4889 9.5 185027.1 -1007.6  
4890 9.3 185032.8 -1025.1

4891 10. 185036.0 -1007.6  
4892 9.2 185037.9 -1009.5  
4893 9.5 185039.7 -1021.0  
4894 8.8 185047.8 -1047.1  
4895 9.8 185059.8 -1009.7  
4896 9.1 185105.4 -1011.5  
4897 9.2 185111.6 -1014.1  
4898 9.8 185116.2 -1011.6  
4899 10. 185122.0 -1004.9  
4900 8.8 185123.2 -1026.0

4901 8.0 185126.3 -1046.6  
4902 9.0 185143.5 -1018.7  
4903 9.6 185205.2 -1053.7  
4904 9.5 185208.8 -1028.9  
4905 10. 185209.6 -1003.5  
4906 9.4 185216.7 -1027.1  
4907 9.5 185219.5 -1002.0  
4908 9.3 185243.2 -1049.6  
4909 9.7 185251.9 -1049.6  
4910 9.5 185302.4 -1017.6

4911 9.4 185306.5 -1022.9  
4912 9.1 185307.3 -1017.2  
4913 9.4 185309.4 -1011.4  
4914 9.1 185314.2 -1021.2  
4915 8.9 185328.1 -1014.0  
4916 9.5 185328.9 -1016.2  
4917 9.3 185329.3 -1009.1  
4918 8.8 185334.7 -1054.4  
4919 9.4 185341.6 -1015.6  
4920 9.5 185346.3 -1047.4

4921 9.1 185350.3 -1019.4  
4922 9.2 185351.6 -1020.8  
4923 9.1 185353.1 -1022.6  
4924 9.3 185409.2 -1034.7  
4925 10. 185420.7 -1011.0  
4926 6.5 185431.6 -1055.6  
4927 9.3 185433.7 -1031.0  
4928 9.5 185436.5 -1001.0  
4929 9.1 185517.5 -1041.5  
4930 9.0 185537.0 -1057.9



-10 4931 18h55m

4931 8.8 185559.7 -1028.4  
4932 8.9 185602.3 -1054.3  
4933 9.1 185606.8 -1044.7  
4934 9.0 185608.7 -1029.1  
4935 9.6 185614.5 -1021.0  
4936 9.4 185615.6 -1017.2  
4937 9.5 185627.3 -1052.0  
4938 9.6 185637.5 -1059.7  
4939 9.7 185652.6 -1011.9  
4940 9.4 185655.3 -1038.4

4941 10. 185659.5 -1003.9  
4942 9.6 185736.8 -1025.1  
4943 9.4 185739.8 -1025.2  
4944 9.3 185741.1 -1004.5  
4945 9.8 185753.7 -1003.9  
4946 8.9 185758.8 -1051.0  
4947 9.7 185809.5 -1007.6  
4948 8.7 185820.6 -1056.1  
4949 8.9 185827.3 -1000.9  
4950 9.8 185831.9 -1019.4

4951 9.1 185834.2 -1030.8  
4952 9.6 185842.7 -1028.7  
4953 10. 185846.3 -1035.0  
4954 9.6 185851.1 -1044.0  
4955 9.0 185852.8 -1022.0  
4956 9.8 185855.0 -1006.0  
4957 9.7 185902.4 -1035.2  
4958 9.5 185917.4 -1037.0  
4959 10. 185936.0 -1069.6  
4960 9.4 185936.5 -1044.3

4961 9.5 185940.4 -1010.0  
4962 9.5 185941.9 -1053.9  
4963 9.2 185945.7 -1022.1  
4964 9.6 185946.1 -1055.5  
4965 9.4 185948.0 -1024.0  
4966 9.6 185951.1 -1051.8  
4967 9.1 185955.3 -1034.6  
4968 9.7 190000.2 -1033.9  
4969 8.7 190043.7 -1019.8  
4970 9.7 190050.3 -1027.0

4971 8.0 190106.8 -1004.3  
4972 8.5 190114.3 -1026.5  
4973 9.2 190145.4 -1033.5  
4974 9.9 190149.5 -1013.5  
4975 9.0 190212.9 -1053.5  
4976 9.8 190214.0 -1055.2  
4977 9.6 190227.3 -1021.1  
4978 9.6 190239.3 -1027.3  
4979 9.3 190242.4 -1019.4  
4980 9.3 190251.4 -1010.6

4981 8.9 190301.8 -1001.9  
4982 9.1 190306.0 -1047.8  
4983 9.1 190318.5 -1043.1  
4984 8.3 190327.7 -1015.4  
4985 8.6 190358.6 -1049.0  
4986 9.4 190404.8 -1001.0  
4987 9.5 190405.4 -1014.6  
4988 8.3 190414.0 -1038.0  
4989 9.1 190433.3 -1028.4  
4990 9.5 190507.9 -1003.3

4991 9.0 190521.2 -1029.6  
4992 9.5 190532.1 -1005.3  
4993 9.9 190534.2 -1054.2  
4994 8.5 190535.7 -1035.3  
4995 9.9 190542.1 -1053.4  
4996 9.9 190544.6 -1058.6  
4997 9.3 190549.9 -1034.3  
4998 10. 190550.1 -1054.5  
4999 9.7 190555.1 -1016.3  
5000 9.9 190557.6 -1029.7

5001 10. 190605.2 -1059.4  
5002 8.7 190614.4 -1012.3  
5003 9.5 190618.6 -1004.3  
5004 9.5 190619.3 -1003.2  
5005 9.1 190628.1 -1011.5  
5006 9.5 190647.4 -1008.9  
5007 8.1 190653.4 -1058.1  
5008 9.6 190657.3 -1007.7  
5009 10. 190700.9 -1039.9  
5010 9.8 190701.6 -1019.6

5011 9.8 190712.0 -1045.6  
5012 9.6 190713.1 -1035.3  
5013 9.6 190715.5 -1058.3  
5014 9.4 190757.8 -1016.3  
5015 9.2 190809.1 -1050.7  
5016 8.7 190821.3 -1011.6  
5017 9.0 190823.9 -1020.2  
5018 8.2 190844.4 -1025.5  
5019 9.5 190851.3 -1001.0  
5020 8.9 190855.4 -1021.2

5021 9.3 190903.3 -1006.1  
5022 10. 190931.6 -1017.5  
5023 9.8 191002.0 -1040.0  
5024 9.8 191023.0 -1049.1  
5025 10. 191027.1 -1001.6  
5026 10. 191027.6 -1014.8  
5027 9.8 191031.1 -1042.7  
5028 8.7 191104.2 -1024.4  
5029 9.6 191122.4 -1024.1  
5030 9.4 191127.9 -1024.7

5031 9.5 191138.0 -1033.6  
5032 9.5 191150.4 -1005.5  
5033 9.4 191157.2 -1051.7  
5034 8.5 191217.5 -1012.3  
5035 7.3 191224.2 -1049.3  
5036 9.1 191232.9 -1005.2  
5037 9.4 191256.8 -1023.7  
5038 9.4 191306.4 -1002.7  
5039 8.9 191308.4 -1002.7  
5040 9.4 191310.6 -1000.5

5041 8.3 191322.9 -1026.5  
5042 10. 191324.2 -1026.0  
5043 9.5 191324.4 -1000.2  
5044 10. 191333.3 -1019.8  
5045 8.9 191335.8 -1037.9  
5046 9.8 191344.1 -1046.8  
5047 9.1 191347.6 -1039.6  
5048 9.2 191350.8 -1029.8  
5049 9.6 191408.2 -1022.8  
5050 9.2 191426.1 -1038.2

5051 10. 191430.6 -1045.5  
5052 9.1 191437.3 -1032.7  
5053 8.5 191444.5 -1001.8  
5054 9.4 191452.9 -1023.0  
5055 8.7 191454.5 -1018.4  
5056 9.7 191503.6 -1057.0  
5057 7.0 191509.5 -1058.6  
5058 9.1 191516.4 -1016.3  
5059 9.2 191517.4 -1047.1  
5060 9.4 191523.2 -1052.3

5061 9.1 191548.9 -1006.4  
5062 9.0 191555.5 -1034.1  
5063 10. 191556.0 -1042.2  
5064 10. 191621.7 -1017.5  
5065 9.8 191646.1 -1011.0  
5066 9.0 191656.4 -1006.0  
5067 9.5 191704.0 -1036.4  
5068 10. 191724.8 -1008.2  
5069 9.4 191759.7 -1039.1  
5070 9.9 191804.0 -1034.8

5071 9.7 191805.9 -1001.9  
5072 9.7 191809.8 -1019.0  
5073 9.5 191813.6 -1016.0  
5074 9.8 191828.4 -1005.6  
5075 9.6 191842.9 -1053.3  
5076 9.6 191843.2 -1056.6  
5077 10. 191849.2 -1031.1  
5078 8.3 191857.3 -1032.0  
5079 9.8 191902.5 -1022.2  
5080 9.7 191910.8 -1055.1

5081 9.7 191921.2 -1000.5  
5082 8.2 191938.0 -1022.4  
5083 9.3 191944.2 -1055.4  
5084 9.2 191944.5 -1009.7  
5085 9.8 191952.3 -1052.4  
5086 9.5 192007.1 -1023.2  
5087 9.8 192013.9 -1015.6  
5088 9.4 192017.6 -1059.9  
5089 8.2 192038.7 -1038.3  
5090 9.3 192049.0 -1023.8

5091 9.7 192125.9 -1016.6  
5092 10. 192132.5 -1017.6  
5093 9.5 192148.6 -1001.7  
5094 9.8 192150.8 -1044.0  
5095 9.5 192156.1 -1023.0  
5096 9.1 192192.2 -1054.1  
5097 8.4 192223.3 -1048.0  
5098 9.5 192228.4 -1007.2  
5099 9.1 192243.1 -1035.2  
5100 8.8 192258.7 -1009.9

5101 9.0 192301.2 -1056.1  
5102 8.8 192311.2 -1040.9  
5103 9.1 192324.7 -1042.9  
5104 9.5 192340.5 -1000.0  
5105 9.1 192352.0 -1009.1  
5106 9.3 192406.8 -1052.9  
5107 9.9 192409.1 -1028.7  
5108 9.0 192420.9 -1017.1  
5109 10. 192505.2 -1018.9  
5110 9.8 192524.7 -1037.2

5111 9.0 192532.0 -1000.9  
5112 9.0 192536.7 -1046.1  
5113 9.8 192557.1 -1013.0  
5114 9.8 192557.8 -1018.9  
5115 8.6 192609.7 -1042.4  
5116 9.1 192628.2 -1026.8  
5117 9.8 192628.3 -1049.0  
5118 9.0 192641.6 -1024.2  
5119 10. 192649.8 -1013.5  
5120 9.8 192700.7 -1015.7

5121 9.3 192702.0 -1025.2  
5122 5.3 192707.2 -1052.4  
5123 9.3 192740.2 -1042.5  
5124 9.5 192747.4 -1016.2  
5125 9.5 192748.3 -1052.0  
5126 8.3 192750.7 -1046.8  
5127 8.9 192807.1 -1026.7  
5128 9.8 192818.8 -1074.3  
5129 9.8 192823.9 -1019.5  
5130 8.3 192848.3 -1045.3

5131 7.2 192853.1 -1028.6  
5132 9.8 192846.9 -1026.1  
5133 9.5 192935.8 -1051.4  
5134 9.2 192939.3 -1014.4  
5135 8.0 192939.2 -1003.3  
5136 9.6 192940.5 -1017.4  
5137 7.7 192945.9 -1017.0  
5138 9.0 192977.6 -1000.2  
5139 9.5 193047.6 -1014.1  
5140 7.1 193045.4 -1038.9

5141 9.7 193045.6 -1015.4  
5142 8.8 193056.3 -1029.4  
5143 8.2 193057.3 -1029.8  
5144 9.8 193115.0 -1028.7  
5145 9.5 193118.8 -1046.1  
5146 9.7 193141.2 -1019.3  
5147 9.8 193144.9 -1008.4  
5148 9.3 193194.3 -1010.3  
5149 9.5 193227.6 -1056.0  
5150 9.5 193232.6 -1054.3

5151 9.3 193248.2 -1030.2  
5152 9.9 193309.8 -1058.9  
5153 9.7 193324.6 -1013.6  
5154 9.4 193333.3 -1015.2  
5155 9.0 193404.1 -1025.8  
5156 9.1 193410.6 -1035.8  
5157 9.3 193421.8 -1000.2  
5158 10. 193428.2 -1038.6  
5159 9.4 193431.9 -1023.3  
5160 9.8 193437.2 -1029.7

5161 9.6 193438.1 -1018.7  
5162 9.8 193523.7 -1033.1  
5163 9.9 193538.7 -1040.4  
5164 9.4 193544.0 -1024.6  
5165 9.3 193546.6 -1050.0  
5166 9.1 193549.4 -1008.0  
5167 9.5 193554.7 -1005.6  
5168 9.8 193555.9 -1014.5  
5169 10. 193636.7 -1037.0  
5170 9.7 193642.7 -1020.5

5171 9.7 193645.8 -1055.4  
5172 7.0 193654.3 -1055.0  
5173 9.5 193706.8 -1033.7  
5174 9.4 193720.7 -1002.1  
5175 9.5 193720.7 -1042.6  
5176 8.9 193822.6 -1011.0  
5177 10. 193830.2 -1030.0  
5178 9.5 193836.2 -1021.0  
5179 9.0 193854.0 -1049.5  
5180 10. 193854.4 -1052.4

5181 8.4 193912.0 -1026.6  
5182 9.6 193929.2 -1028.5  
5183 8.7 193932.7 -1003.0  
5184 10. 193951.8 -1056.7  
5185 9.2 194009.1 -1012.4  
5186 9.5 194028.8 -1048.1  
5187 9.3 194033.3 -1011.8  
5188 9.8 194032.7 -1003.9  
5189 9.1 194045.7 -1011.0  
5190 9.8 194047.2 -1043.8

5191 7.9 194109.3 -1020.4  
5192 9.3 194123.2 -1012.2  
5193 9.4 194126.6 -1004.9  
5194 9.5 194139.4 -1044.0  
5195 7.0 194142.8 -1022.1  
5196 9.2 194223.9 -1054.4  
5197 9.0 194251.0 -1029.4  
5198 9.5 194252.9 -1010.8  
5199 9.5 194302.3 -1023.4  
5200 9.0 194313.8 -1005.5

-10 5290 20h01m

5201 9.2 194315.2 -1033.4  
5202 9.4 194319.1 -1010.7  
5203 7.2 194402.6 -1043.1  
5204 10. 194409.2 -1024.6  
5205 9.8 194411.1 -1000.5  
5206 9.4 194412.1 -1039.6  
5207 9.5 194500.6 -1032.7  
5208 9.5 194518.6 -1045.5  
5209 9.0 194521.3 -1002.9  
5210 8.6 194532.8 -1028.9

5211 9.5 194547.6 -1039.1  
5212 9.8 194554.6 -1016.9  
5213 9.9 194600.2 -1015.0  
5214 9.6 194603.4 -1024.4  
5215 9.2 194620.8 -1059.9  
5216 9.6 194621.5 -1000.8  
5217 8.2 194635.2 -1029.1  
5218 10. 194642.6 -1050.3  
5219 10. 194642.6 -1041.6  
5220 9.9 194647.9 -1012.1

5221 9.7 194655.5 -1049.9  
5222 10. 194656.7 -1032.5  
5223 8.8 194733.5 -1056.9  
5224 9.8 194748.1 -1041.6  
5225 9.9 194748.1 -1047.0  
5226 9.2 194759.4 -1003.8  
5227 9.8 194816.0 -1038.9  
5228 9.5 194826.7 -1043.8  
5229 9.6 194911.0 -1027.7  
5230 7.5 194937.8 -1025.0

5231 9.2 194900.4 -1025.2  
5232 9.6 194900.5 -1003.5  
5233 9.6 194903.7 -1043.9  
5234 9.0 195004.7 -1046.1  
5235 9.0 195117.7 -1056.5  
5236 9.0 195124.2 -1035.8  
5237 10. 195128.1 -1046.2  
5238 6.2 195153.9 -1019.8  
5239 9.2 195225.9 -1022.2  
5240 9.5 195230.8 -1011.7

5241 9.5 195236.6 -1050.1  
5242 9.2 195245.8 -1058.2  
5243 9.5 195246.7 -1046.5  
5244 9.8 195301.7 -1041.4  
5245 9.5 195322.7 -1043.8  
5246 9.5 195327.0 -1055.3  
5247 9.4 195326.0 -1040.7  
5248 9.7 195341.1 -1017.7  
5249 9.0 195352.6 -1032.7  
5250 9.4 195510.0 -1029.8

5251 10. 195521.4 -1025.1  
5252 10. 195529.5 -1045.7  
5253 9.6 195602.3 -1041.9  
5254 9.2 195611.4 -1029.0  
5255 9.6 195620.6 -1042.1  
5256 10. 195625.0 -1029.8  
5257 10. 195625.1 -1031.8  
5258 9.8 195626.7 -1016.9  
5259 9.3 195625.9 -1057.4  
5260 9.5 195632.1 -1026.6

5261 9.5 195640.8 -1046.2  
5262 9.1 195641.5 -1045.8  
5263 9.3 195644.7 -1054.2  
5264 9.2 195650.9 -1055.4  
5265 9.2 195652.3 -1056.3  
5266 9.1 195702.2 -1050.5  
5267 8.5 195703.2 -1049.4  
5268 8.6 195711.1 -1022.7  
5269 9.7 195716.1 -1010.1  
5270 10. 195725.7 -1016.9

5271 9.5 195808.3 -1044.5  
5272 9.5 195812.4 -1031.7  
5273 9.9 195816.8 -1040.2  
5274 9.2 195818.4 -1023.7  
5275 9.6 195821.4 -1044.2  
5276 9.7 195830.0 -1004.1  
5277 9.8 195835.0 -1002.7  
5278 9.3 195904.2 -1054.2  
5279 9.8 195926.6 -1053.6  
5280 10. 195920.4 -1054.3

5281 9.6 195947.9 -1037.4  
5282 9.5 200023.4 -1011.4  
5283 9.9 200025.2 -1053.5  
5284 7.3 200034.0 -1043.5  
5285 6.0 200035.9 -1029.7  
5286 9.9 200032.1 -1053.2  
5287 9.7 200056.3 -1045.3  
5288 8.5 200112.7 -1055.7  
5289 9.8 200137.6 -1009.0  
5290 8.7 200139.4 -1034.5



5291 10. 200140.8 -1012.8  
 5292 9.3 200150.9 -1010.4  
 5293 9.6 200204.4 -1013.8  
 5294 8.8 200209.8 -1057.4  
 5295 8.9 200216.4 -1012.1  
 5296 9.6 200226.3 -1048.1  
 5297 9.3 200230.7 -1059.2  
 5298 9.9 200316.0 -1045.0  
 5299 10. 200332.8 -1009.4  
 5300 9.8 200335.8 -1047.0

5301 10. 200336.7 -1018.7  
 5302 10. 200337.0 -1023.4  
 5303 9.0 200339.5 -1033.7  
 5304 9.2 200345.8 -1045.3  
 5305 10. 200409.0 -1006.4  
 5306 10. 200431.8 -1017.5  
 5307 9.0 200433.4 -1041.2  
 5308 9.0 200439.9 -1007.9  
 5309 9.4 200441.5 -1003.9  
 5310 9.0 200442.1 -1042.7

5311 9.1 200453.6 -1046.7  
 5312 9.8 200454.7 -1018.1  
 5313 9.4 200515.5 -1025.0  
 5314 9.5 200527.3 -1049.6  
 5315 10. 200532.7 -1058.5  
 5316 9.5 200541.8 -1047.1  
 5317 9.1 200545.0 -1029.2  
 5318 9.3 200553.8 -1046.4  
 5319 9.1 200555.3 -1058.3  
 5320 9.4 200559.3 -1059.2

5321 10. 200604.0 -1000.9  
 5322 7.8 200606.1 -1003.1  
 5323 9.5 200619.4 -1020.2  
 5324 9.7 200625.4 -1012.6  
 5325 9.5 200651.6 -1007.2  
 5326 9.4 200711.7 -1054.5  
 5327 9.1 200714.5 -1010.0  
 5328 9.8 200722.4 -1030.9  
 5329 9.8 200732.9 -1057.0  
 5330 9.4 200737.4 -1053.0

5331 9.8 200743.1 -1006.1  
 5332 8.9 200759.9 -1035.6  
 5333 8.5 200816.6 -1001.6  
 5334 9.8 200816.8 -1042.7  
 5335 10. 200826.3 -1048.0  
 5336 9.5 200833.6 -1058.6  
 5337 9.9 200845.1 -1003.4  
 5338 8.1 200911.0 -1008.4  
 5339 9.8 200936.8 -1041.7  
 5340 10. 200944.5 -1001.2

5341 9.7 201004.2 -1021.0  
 5342 9.7 201035.1 -1017.4  
 5343 9.5 201049.1 -1000.1  
 5344 8.0 201053.8 -1019.9  
 5345 10. 201101.8 -1049.6  
 5346 10. 201112.8 -1025.0  
 5347 9.5 201122.9 -1037.3  
 5348 9.8 201128.5 -1015.7  
 5349 9.7 201143.2 -1053.4  
 5350 9.5 201216.4 -1032.7

5351 8.5 201222.7 -1049.4  
 5352 9.1 201228.0 -1025.5  
 5353 9.4 201237.5 -1010.8  
 5354 9.8 201254.1 -1058.6  
 5355 9.5 201257.6 -1038.9  
 5356 8.4 201303.0 -1008.2  
 5357 9.8 201308.4 -1018.7  
 5358 9.6 201327.6 -1026.8  
 5359 7.7 201335.4 -1035.7  
 5360 9.4 201355.9 -1031.3

5361 9.1 201406.3 -1057.9  
 5362 9.8 201413.6 -1001.9  
 5363 9.8 201422.6 -1000.5  
 5364 9.0 201445.5 -1038.5  
 5365 9.2 201446.7 -1009.7  
 5366 9.1 201447.2 -1045.6  
 5367 9.4 201450.6 -1014.9  
 5368 9.5 201458.9 -1028.2  
 5369 6.3 201508.1 -1006.9  
 5370 9.0 201515.4 -1034.0

5371 10. 201528.2 -1003.5  
 5372 9.4 201543.7 -1020.3  
 5373 9.7 201603.3 -1059.3  
 5374 9.0 201605.4 -1019.4  
 5375 9.8 201620.0 -1019.7  
 5376 9.0 201622.0 -1026.0  
 5377 9.2 201624.5 -1024.5  
 5378 10. 201632.8 -1041.4  
 5379 9.5 201633.4 -1053.9  
 5380 9.8 201634.8 -1046.7

5381 9.7 201646.3 -1033.5  
 5382 10. 201650.9 -1052.2  
 5383 9.0 201705.7 -1046.2  
 5384 9.8 201716.4 -1037.7  
 5385 9.5 201727.1 -1029.2  
 5386 8.5 201732.9 -1053.6  
 5387 9.7 201748.9 -1014.1  
 5388 8.9 201751.7 -1057.4  
 5389 9.5 201804.3 -1046.4  
 5390 9.3 201809.9 -1011.9

5391 9.5 201824.4 -1022.3  
 5392 9.8 201841.5 -1026.6  
 5393 9.7 201850.5 -1009.8  
 5394 10. 201856.2 -1045.5  
 5395 9.2 201859.8 -1019.6  
 5396 9.6 201931.0 -1035.7  
 5397 9.0 201958.4 -1036.6  
 5398 9.8 202014.2 -1007.9  
 5399 9.0 202024.5 -1024.1  
 5400 9.1 202048.8 -1012.0

5401 9.3 202115.2 -1000.8  
 5402 9.2 202122.2 -1011.3  
 5403 10. 202124.0 -1023.7  
 5404 9.3 202125.8 -1039.1  
 5405 8.5 202142.4 -1028.9  
 5406 9.4 202152.0 -1055.6  
 5407 9.1 202152.1 -1046.1  
 5408 9.8 202207.5 -1016.0  
 5409 9.2 202209.9 -1033.0  
 5410 9.3 202213.1 -1033.7

5411 9.8 202217.5 -1012.7  
 5412 9.5 202223.5 -1015.5  
 5413 9.8 202226.2 -1006.6  
 5414 7.8 202302.4 -1030.6  
 5415 9.1 202309.2 -1008.1  
 5416 9.4 202321.5 -1015.4  
 5417 9.8 202324.4 -1028.6  
 5418 9.7 202345.5 -1018.3  
 5419 9.7 202351.1 -1053.9  
 5420 9.4 202410.9 -1031.1

5421 9.9 202417.8 -1005.6  
 5422 9.9 202422.7 -1006.2  
 5423 6.2 202429.1 -1020.4  
 5424 9.5 202432.4 -1029.8  
 5425 9.3 202437.2 -1051.1  
 5426 10. 202442.3 -1006.3  
 5427 9.1 202521.4 -1037.0  
 5428 10. 202522.2 -1051.0  
 5429 9.5 202527.8 -1019.3  
 5430 10. 202534.3 -1007.2

5431 8.5 202601.4 -1036.8  
 5432 10. 202625.2 -1045.0  
 5433 9.2 202626.5 -1023.8  
 5434 9.9 202631.9 -1032.4  
 5435 9.8 202637.6 -1049.6  
 5436 9.5 202655.4 -1059.8  
 5437 9.5 202709.3 -1042.9  
 5438 8.0 202711.3 -1004.3  
 5439 9.5 202714.2 -1045.3  
 5440 9.8 202715.8 -1014.5

5441 9.5 202729.3 -1044.7  
 5442 9.8 202741.1 -1059.6  
 5443 9.6 202744.3 -1043.1  
 5444 9.7 202758.6 -1014.4  
 5445 10. 202806.0 -1027.5  
 5446 9.0 202814.1 -1021.6  
 5447 9.0 202829.3 -1043.7  
 5448 8.8 202834.0 -1020.5  
 5449 9.4 202836.9 -1005.5  
 5450 9.8 202918.5 -1055.6

5451 10. 202921.6 -1011.7  
 5452 9.8 202927.7 -1040.5  
 5453 9.5 202930.1 -1022.3  
 5454 9.1 202938.8 -1040.0  
 5455 9.7 202942.7 -1052.3  
 5456 9.5 203002.8 -1039.2  
 5457 10. 203020.7 -1052.4  
 5458 9.3 203052.3 -1011.5  
 5459 10. 203057.4 -1050.7  
 5460 9.0 203059.9 -1005.5

5461 9.5 203105.9 -1011.5  
 5462 9.9 203135.7 -1042.4  
 5463 9.5 203141.4 -1028.1  
 5464 9.5 203151.6 -1051.2  
 5465 9.7 203152.9 -1000.7  
 5466 9.0 203158.8 -1034.1  
 5467 9.0 203200.9 -1034.3  
 5468 10. 203220.9 -1027.8  
 5469 9.5 203235.5 -1021.1  
 5470 8.9 203237.8 -1042.1

5471 8.8 203249.7 -1043.6  
 5472 8.5 203311.9 -1001.9  
 5473 8.5 203315.4 -1009.2  
 5474 9.2 203359.8 -1040.2  
 5475 9.8 203400.9 -1055.5  
 5476 9.5 203408.4 -1026.3  
 5477 10. 203412.0 -1002.0  
 5478 10. 203415.2 -1052.2  
 5479 9.2 203449.2 -1051.4  
 5480 9.5 203501.8 -1042.2

5481 9.5 203510.4 -1036.9  
 5482 9.8 203512.3 -1042.0  
 5483 9.5 203519.5 -1023.4  
 5484 9.4 203534.9 -1018.4  
 5485 9.4 203535.3 -1021.2  
 5486 9.6 203617.0 -1002.7  
 5487 9.0 203630.4 -1008.0  
 5488 9.5 203651.9 -1033.9  
 5489 9.6 203715.3 -1032.6  
 5490 9.8 203730.9 -1032.9

5491 10. 203731.1 -1016.3  
 5492 9.6 203743.4 -1031.1  
 5493 8.3 203748.2 -1038.7  
 5494 9.1 203801.7 -1030.2  
 5495 9.5 203805.4 -1037.7  
 5496 9.8 203816.1 -1052.0  
 5497 6.2 203819.0 -1012.6  
 5498 9.1 203829.5 -1020.1  
 5499 9.0 203847.9 -1025.3  
 5500 9.5 203849.3 -1018.2

5501 9.0 203850.0 -1004.4  
 5502 9.1 203850.8 -1055.7  
 5503 9.2 203927.2 -1015.5  
 5504 8.2 203943.9 -1034.7  
 5505 9.8 203947.0 -1016.0  
 5506 4.2 203949.5 -1001.3  
 5507 9.2 204009.7 -1052.1  
 5508 8.0 204016.9 -1016.8  
 5509 9.0 204018.8 -1034.1  
 5510 9.6 204034.6 -1019.7

5511 8.7 204037.4 -1011.6  
 5512 9.8 204045.3 -1040.3  
 5513 9.5 204101.4 -1019.4  
 5514 9.4 204117.3 -1044.8  
 5515 9.0 204118.7 -1053.3  
 5516 9.5 204130.9 -1020.4  
 5517 10. 204146.5 -1020.6  
 5518 8.9 204214.6 -1020.6  
 5519 9.4 204247.8 -1005.6  
 5520 9.4 204247.9 -1033.8

5521 9.0 204251.6 -1000.9  
 5522 10. 204307.4 -1053.5  
 5523 9.8 204316.4 -1008.3  
 5524 9.1 204327.2 -1051.6  
 5525 9.8 204346.6 -1002.5  
 5526 7.5 204354.1 -1051.6  
 5527 9.9 204357.4 -1025.7  
 5528 9.8 204358.9 -1016.8  
 5529 9.5 204415.7 -1057.1  
 5530 9.4 204437.9 -1034.4

5531 9.6 204441.2 -1011.0  
 5532 9.3 204453.5 -1022.5  
 5533 8.8 204453.6 -1036.4  
 5534 9.9 204457.0 -1039.4  
 5535 9.5 204503.8 -1035.1  
 5536 9.8 204508.4 -1047.6  
 5537 9.2 204510.5 -1024.0  
 5538 5.7 204517.8 -1001.6  
 5539 9.3 204532.0 -1001.4  
 5540 9.8 204605.1 -1004.6

5541 9.9 204710.5 -1037.5  
 5542 9.7 204715.9 -1049.8  
 5543 9.4 204726.4 -1052.2  
 5544 9.7 204745.6 -1024.4  
 5545 10. 204759.2 -1008.9  
 5546 9.2 204815.9 -1044.8  
 5547 9.4 204832.2 -1001.2  
 5548 9.3 204841.3 -1021.0  
 5549 9.2 204850.7 -1011.8  
 5550 8.7 204900.9 -1052.3

5551 8.7 204902.1 -1028.6  
 5552 9.6 204902.6 -1027.5  
 5553 6.2 204903.5 -1014.9  
 5554 9.4 204915.9 -1013.8  
 5555 10. 205007.6 -1028.0  
 5556 10. 205031.4 -1052.2  
 5557 9.6 205034.7 -1005.8  
 5558 9.7 205044.0 -1057.0  
 5559 9.2 205101.0 -1044.2  
 5560 9.4 205110.9 -1050.2

5561 8.5 205126.4 -1048.8  
 5562 8.0 205136.5 -1003.3  
 5563 10. 205153.1 -1028.5  
 5564 9.6 205208.9 -1048.3  
 5565 9.5 205229.4 -1032.6  
 5566 9.5 205316.4 -1046.8  
 5567 9.7 205323.4 -1056.1  
 5568 9.9 205349.9 -1058.9  
 5569 9.8 205352.2 -1018.3  
 5570 9.0 205353.6 -1022.0

5571 9.9 205355.0 -1031.9  
 5572 10. 205419.1 -1029.5  
 5573 10. 205428.0 -1038.4  
 5574 9.4 205430.3 -1014.8  
 5575 8.9 205430.9 -1014.3  
 5576 9.1 205435.9 -1048.6  
 5577 8.1 205439.1 -1000.9  
 5578 6.8 205443.5 -1033.9  
 5579 9.7 205452.6 -1001.5  
 5580 8.6 205455.9 -1047.3

5581 9.3 205504.5 -1006.0  
 5582 10. 205512.4 -1044.4  
 5583 9.8 205532.9 -1057.4  
 5584 8.5 205602.0 -1028.6  
 5585 10. 205609.4 -1049.4  
 5586 10. 205611.9 -1050.2  
 5587 9.6 205634.6 -1011.9  
 5588 9.2 205654.6 -1012.5  
 5589 9.6 205706.6 -1056.1  
 5590 9.6 205713.3 -1015.4

5591 9.8 205720.8 -1053.0  
 5592 8.8 205723.0 -1038.7  
 5593 9.4 205732.0 -1036.4  
 5594 10. 205753.2 -1004.6  
 5595 9.5 205800.8 -1011.0  
 5596 9.0 205828.9 -1057.5  
 5597 9.5 205829.6 -1053.8  
 5598 9.9 205845.9 -1020.7  
 5599 10. 205849.3 -1007.3  
 5600 8.3 205918.0 -1027.8

5601 8.8 205922.1 -1022.2  
 5602 9.5 205930.2 -1004.2  
 5603 9.4 205938.0 -1031.1  
 5604 10. 205939.4 -1025.0  
 5605 9.8 205946.9 -1052.5  
 5606 8.0 210002.4 -1047.4  
 5607 9.0 210011.3 -1021.3  
 5608 9.3 210013.4 -1058.0  
 5609 8.8 210022.3 -1028.0  
 5610 9.2 210026.9 -1047.9

5611 9.3 210029.1 -1029.5  
 5612 9.5 210031.2 -1001.5  
 5613 9.8 210117.5 -1047.7  
 5614 9.8 210146.1 -1035.4  
 5615 8.3 210147.3 -1015.8  
 5616 9.4 210214.6 -1027.5  
 5617 8.6 210231.3 -1032.4  
 5618 9.1 210253.0 -1012.4  
 5619 8.0 210254.4 -1048.0  
 5620 9.5 210338.6 -1029.3

5621 10. 210514.5 -1033.1  
 5622 10. 210528.1 -1025.3  
 5623 9.9 210542.6 -1000.1  
 5624 8.9 210550.9 -1013.4  
 5625 9.5 210605.3 -1005.7  
 5626 9.3 210615.1 -1055.4  
 5627 9.8 210644.4 -1007.6  
 5628 9.4 210700.8 -1017.3  
 5629 9.8 210703.1 -1032.2  
 5630 8.7 210733.3 -1056.9

5631 9.1 210738.9 -1055.8  
 5632 10. 210742.3 -1007.8  
 5633 10. 210841.5 -1039.2  
 5634 10. 210854.9 -1040.8  
 5635 9.1 210856.6 -1044.4  
 5636 7.2 210908.6 -1044.3  
 5637 8.7 210931.6 -1040.8  
 5638 9.7 210932.5 -1021.5  
 5639 9.8 211012.6 -1041.0  
 5640 9.9 211037.0 -1019.4

5641 9.5 211121.1 -1039.9  
 5642 9.5 211126.8 -1009.3  
 5643 9.5 211127.9 -1017.7  
 5644 8.2 211128.2 -1010.9  
 5645 9.3 211144.3 -1041.9  
 5646 10. 211144.3 -1006.0  
 5647 10. 211159.4 -1001.7  
 5648 9.5 211200.6 -1058.0  
 5649 9.8 211205.6 -1007.8  
 5650 9.5 211207.2 -1046.9



-10 5651 21h12m

5651 8.9 211218.7 -1050.0  
5652 9.6 211232.2 -1040.8  
5653 9.6 211242.2 -1036.6  
5654 9.8 211245.9 -1001.4  
5655 9.2 211333.2 -1026.1  
5656 9.6 211462.4 -1015.9  
5657 9.3 211402.7 -1016.7  
5658 8.7 211409.4 -1056.0  
5659 9.4 211423.4 -1007.6  
5660 9.4 211442.2 -1030.1

5661 10. 211457.7 -1040.4  
5662 10. 211548.8 -1054.2  
5663 9.0 211626.1 -1017.7  
5664 9.1 211630.5 -1059.2  
5665 9.5 211635.1 -1056.5  
5666 9.6 211708.8 -1040.6  
5667 9.4 211712.2 -1036.1  
5668 5.5 211724.8 -1021.7  
5669 8.8 211730.3 -1031.1  
5670 9.8 211744.4 -1016.1

5671 9.0 211910.9 -1037.4  
5672 9.5 211917.5 -1001.7  
5673 9.2 211918.8 -1041.2  
5674 10. 212007.8 -1038.5  
5675 9.4 212008.0 -1015.7  
5676 9.7 212010.6 -1006.5  
5677 9.2 212022.4 -1034.8  
5678 9.3 212112.9 -1045.8  
5679 9.4 212117.0 -1001.7  
5680 9.5 212124.5 -1014.7

5681 9.0 212129.3 -1054.1  
5682 9.4 212134.9 -1057.4  
5683 10. 212145.8 -1041.8  
5684 9.6 212147.3 -1017.2  
5685 10. 212149.8 -1002.7  
5686 9.3 212222.9 -1057.1  
5687 9.5 212224.0 -1021.7  
5688 10. 212225.7 -1014.9  
5689 9.9 212226.9 -1031.1  
5690 9.5 212316.4 -1044.1

5691 9.5 212320.6 -1035.6  
5692 9.5 212321.3 -1007.7  
5693 9.0 212329.6 -1055.7  
5694 9.9 212345.0 -1052.2  
5695 8.9 212346.9 -1045.1  
5696 7.0 212349.5 -1022.8  
5697 10. 212422.0 -1028.5  
5698 9.5 212428.0 -1255.5  
5699 10. 212429.3 -1107.4  
5700 9.8 212434.0 -1050.2

5701 9.5 212451.4 -1027.7  
5702 9.7 212459.7 -1056.8  
5703 9.3 212514.7 -1051.7  
5704 9.3 212528.6 -1015.4  
5705 7.7 212549.1 -1018.2  
5706 9.4 212629.3 -1008.5  
5707 9.4 212629.5 -1024.1  
5708 9.4 212653.8 -1013.0  
5709 9.0 212738.7 -1056.4  
5710 9.5 212745.0 -1027.7

5711 8.5 212754.0 -1027.3  
5712 9.6 212810.8 -1051.4  
5713 9.5 212827.5 -1021.3  
5714 7.3 212903.1 -1049.0  
5715 10. 212940.3 -1048.1  
5716 10. 212940.7 -1040.5  
5717 8.8 212953.1 -1059.2  
5718 9.5 212955.6 -1031.4  
5719 10. 213001.3 -1029.4  
5720 8.0 213004.9 -1014.6

5721 9.8 213114.3 -1008.8  
5722 9.3 213132.4 -1008.6  
5723 9.6 213132.9 -1035.8  
5724 9.0 213138.3 -1034.5  
5725 8.8 213142.5 -1058.4  
5726 10. 213147.3 -1044.9  
5727 9.8 213200.0 -1000.6  
5728 8.0 213225.1 -1076.6  
5729 3.5 213229.8 -1038.7  
5730 9.3 213244.1 -1025.6

5731 8.6 213246.6 -1051.7  
5732 10. 213255.6 -1006.4  
5733 10. 213308.3 -1005.3  
5734 9.2 213309.1 -1051.5  
5735 9.1 213317.1 -1051.3  
5736 9.9 213318.1 -1039.2  
5737 9.3 213339.9 -1017.6  
5738 9.9 213346.0 -1002.5  
5739 9.3 213351.4 -1003.1  
5740 9.3 213403.7 -1043.5

5741 9.8 213409.6 -1046.2  
5742 9.6 213422.7 -1051.9  
5743 10. 213424.7 -1037.2  
5744 9.8 213440.0 -1011.5  
5745 9.0 213446.7 -1034.4  
5746 9.3 213451.8 -1007.5  
5747 8.7 213457.2 -1017.7  
5748 10. 213509.6 -1011.3  
5749 9.4 213536.2 -1057.0  
5750 9.0 213545.2 -1032.5

5751 8.5 213549.7 -1039.1  
5752 10. 213618.4 -1027.7  
5753 9.8 213649.8 -1059.7  
5754 9.6 213650.7 -1053.3  
5755 8.8 213706.7 -1052.5  
5756 9.5 213721.6 -1058.8  
5757 9.8 213740.7 -1004.1  
5758 9.5 213843.1 -1055.9  
5759 9.8 213908.4 -1046.0  
5760 9.0 213919.8 -1048.3

5761 8.3 213941.8 -1025.5  
5762 9.5 213956.5 -1005.0  
5763 9.2 214001.3 -1032.7  
5764 8.5 214011.3 -1032.1  
5765 9.6 214041.0 -1012.7  
5766 9.2 214042.9 -1058.2  
5767 10. 214100.5 -1052.8  
5768 9.5 214109.5 -1004.9  
5769 9.8 214229.4 -1030.3  
5770 9.6 214256.2 -1010.4

5771 9.7 214312.9 -1001.8  
5772 9.3 214315.6 -1007.3  
5773 9.6 214317.2 -1000.2  
5774 7.5 214319.9 -1043.1  
5775 9.3 214332.6 -1041.8  
5776 9.7 214351.2 -1020.1  
5777 9.8 214441.8 -1012.9  
5778 9.4 214444.3 -1053.6  
5779 7.8 214446.7 -1005.7  
5780 9.0 214457.0 -1030.1

5781 9.2 214516.4 -1036.2  
5782 10. 214531.5 -1035.1  
5783 8.3 214535.7 -1056.0  
5784 9.5 214545.9 -1037.1  
5785 6.8 214553.0 -1059.6  
5786 8.5 214557.4 -1027.5  
5787 10. 214627.1 -1018.1  
5788 9.6 214635.6 -1052.7  
5789 9.9 214701.0 -1040.0  
5790 9.3 214710.8 -1017.9

5791 9.5 214722.0 -1029.3  
5792 9.5 214730.5 -1053.1  
5793 10. 214809.6 -1047.1  
5794 8.8 214834.6 -1011.6  
5795 8.3 214841.0 -1016.2  
5796 9.8 214906.5 -1047.0  
5797 9.8 214939.6 -1045.3  
5798 9.8 214948.6 -1008.3  
5799 9.4 215005.2 -1058.8  
5800 9.5 215050.5 -1053.5

5801 10. 215055.0 -1000.8  
5802 10. 215102.4 -1021.4  
5803 8.5 215115.1 -1052.4  
5804 8.3 215123.6 -1027.4  
5805 9.3 215132.0 -1011.8  
5806 10. 215156.0 -1034.0  
5807 10. 215212.7 -1048.6  
5808 10. 215233.6 -1014.1  
5809 9.9 215307.1 -1053.8  
5810 9.5 215347.6 -1054.6

5811 10. 215356.6 -1032.8  
5812 8.0 215407.3 -1034.1  
5813 9.3 215412.1 -1038.4  
5814 9.5 215423.6 -1053.6  
5815 10. 215435.7 -1010.8  
5816 9.5 215442.6 -1026.6  
5817 9.8 215518.1 -1059.7  
5818 10. 215546.4 -1001.4  
5819 9.8 215555.2 -1054.7  
5820 9.3 215558.1 -1032.3

5821 9.7 215600.7 -1013.4  
5822 9.2 215622.9 -1007.6  
5823 10. 215640.9 -1004.5  
5824 9.5 215652.7 -1043.3  
5825 10. 215656.8 -1050.9  
5826 10. 215707.8 -1009.8  
5827 10. 215721.6 -1015.6  
5828 10. 215727.0 -1004.1  
5829 9.2 215748.5 -1015.1  
5830 8.8 215751.7 -1036.0

5831 9.5 215803.3 -1058.9  
5832 9.4 215815.7 -1027.3  
5833 9.5 215830.0 -1003.3  
5834 9.5 215843.2 -1041.8  
5835 10. 215905.8 -1032.7  
5836 9.4 215908.5 -1059.3  
5837 7.7 220004.0 -1047.2  
5838 9.4 220004.3 -1044.8  
5839 9.2 220012.2 -1022.6  
5840 9.3 220024.0 -1004.5

5841 9.5 220057.3 -1020.9  
5842 9.5 220105.2 -1045.1  
5843 9.9 220117.5 -1037.5  
5844 9.0 220121.3 -1044.0  
5845 9.6 220132.9 -1056.6  
5846 9.5 220203.2 -1040.4  
5847 10. 220218.7 -1017.1  
5848 9.3 220226.8 -1058.5  
5849 9.0 220229.1 -1027.9  
5850 9.7 220229.6 -1017.1

5851 8.3 220240.5 -1005.5  
5852 9.4 220250.6 -1013.1  
5853 9.8 220303.8 -1021.4  
5854 9.1 220314.6 -1007.3  
5855 9.0 220328.4 -1026.4  
5856 9.3 220330.6 -1003.3  
5857 9.4 220335.9 -1025.5  
5858 9.5 220356.8 -1022.5  
5859 9.6 220403.9 -1042.1  
5860 8.7 220408.4 -1027.4

5861 9.8 220419.6 -1006.2  
5862 10. 220433.9 -1050.1  
5863 9.9 220437.9 -1045.6  
5864 9.8 220443.9 -1041.6  
5865 10. 220516.6 -1007.0  
5866 9.8 220517.9 -1052.0  
5867 9.2 220526.8 -1044.0  
5868 9.8 220621.9 -1041.8  
5869 9.1 220642.8 -1050.0  
5870 9.4 220708.4 -1051.3

5871 9.0 220720.9 -1044.9  
5872 9.3 220745.0 -1019.9  
5873 9.0 220748.5 -1049.8  
5874 8.8 220754.1 -1020.2  
5875 9.3 220820.7 -1037.1  
5876 9.8 220836.1 -1011.3  
5877 9.7 220906.4 -1018.6  
5878 10. 220948.2 -1048.7  
5879 8.3 221007.0 -1027.9  
5880 9.5 221035.6 -1032.2

5881 9.9 221038.4 -1007.4  
5882 10. 221044.2 -1047.0  
5883 9.9 221102.7 -1044.9  
5884 9.7 221115.4 -1000.5  
5885 8.3 221155.8 -1021.6  
5886 9.2 221244.8 -1057.6  
5887 10. 221245.1 -1034.7  
5888 9.2 221250.5 -1040.8  
5889 9.8 221303.4 -1001.8  
5890 9.3 221335.2 -1034.9

5891 9.7 221346.8 -1038.5  
5892 9.7 221349.1 -1058.2  
5893 9.1 221402.8 -1038.0  
5894 9.8 221410.9 -1011.1  
5895 9.5 221411.3 -1004.1  
5896 8.9 221412.2 -1020.3  
5897 9.4 221504.6 -1013.0  
5898 9.5 221511.8 -1027.9  
5899 9.4 221604.8 -1056.9  
5900 10. 221605.3 -1029.0

5901 9.6 221606.5 -1032.7  
5902 8.2 221607.2 -1024.6  
5903 9.8 221611.5 -1029.1  
5904 7.0 221627.4 -1055.5  
5905 8.2 221648.3 -1032.0  
5906 8.8 221650.4 -1040.9  
5907 9.1 221703.0 -1019.9  
5908 8.5 221703.3 -1009.8  
5909 9.8 221708.7 -1002.8  
5910 9.8 221721.4 -1053.2

5911 9.7 221725.0 -1009.7  
5912 10. 221735.3 -1041.0  
5913 9.8 221758.7 -1019.5  
5914 9.2 221819.3 -1056.7  
5915 9.5 221839.1 -1025.1  
5916 9.0 221844.9 -1044.1  
5917 10. 221923.5 -1039.0  
5918 8.3 221920.0 -1041.3  
5919 9.3 222021.7 -1017.5  
5920 9.7 222041.4 -1038.0

5921 9.8 222054.6 -1004.6  
5922 10. 222106.6 -1056.4  
5923 8.5 222122.7 -1040.4  
5924 9.0 222123.7 -1040.8  
5925 7.5 222124.4 -1028.7  
5926 10. 222128.1 -1014.8  
5927 10. 222128.1 -1009.9  
5928 9.9 222135.0 -1041.9  
5929 8.5 222139.3 -1024.0  
5930 8.7 222202.8 -1047.3

5931 9.4 222224.6 -1049.0  
5932 9.5 222248.9 -1031.5  
5933 9.8 222257.8 -1053.8  
5934 9.3 222310.5 -1044.9  
5935 9.4 222324.4 -1013.4  
5936 8.5 222338.5 -1024.8  
5937 9.9 222338.6 -1038.0  
5938 9.5 222353.7 -1001.4  
5939 10. 222411.6 -1059.6  
5940 10. 222420.7 -1045.8

5941 9.6 222421.1 -1043.3  
5942 9.5 222441.9 -1022.5  
5943 9.0 222519.2 -1001.4  
5944 9.1 222554.0 -1025.5  
5945 9.8 222610.3 -1021.9  
5946 9.3 222611.7 -1050.5  
5947 6.8 222627.6 -1021.3  
5948 8.5 222642.5 -1002.6  
5949 8.9 222707.7 -1051.0  
5950 9.5 222711.3 -1016.4

5951 9.5 222831.6 -1023.5  
5952 9.2 222832.2 -1043.1  
5953 9.1 222908.9 -1009.0  
5954 9.0 222918.7 -1008.4  
5955 10. 222950.8 -1051.6  
5956 9.7 222957.0 -1032.0  
5957 10. 222909.0 -1025.9  
5958 9.1 223020.6 -1009.3  
5959 9.9 223021.6 -1035.7  
5960 9.4 223043.6 -1013.4

5961 8.0 223118.5 -1051.4  
5962 10. 223121.9 -1024.2  
5963 6.9 223137.8 -1046.9  
5964 4.4 223148.3 -1050.4  
5965 9.1 223150.7 -1020.6  
5966 7.0 223228.9 -1006.9  
5967 9.8 223300.4 -1052.8  
5968 9.4 223303.2 -1027.3  
5969 9.5 223326.7 -1021.3  
5970 9.5 223332.6 -1025.2

5971 9.1 223411.7 -1059.1  
5972 10. 223415.3 -1028.9  
5973 8.0 223421.9 -1053.0  
5974 8.2 223452.9 -1040.5  
5975 7.0 223523.0 -1051.8  
5976 9.8 223531.6 -1009.7  
5977 9.3 223607.8 -1029.2  
5978 9.8 223622.3 -1026.2  
5979 10. 223627.9 -1007.6  
5980 9.8 223657.2 -1034.0

5981 9.5 223715.4 -1000.6  
5982 7.3 223743.3 -1024.3  
5983 9.4 223747.6 -1048.2  
5984 9.4 223810.7 -1056.4  
5985 9.4 223825.0 -1043.8  
5986 8.0 223841.8 -1027.5  
5987 9.2 223909.9 -1027.2  
5988 9.3 223922.0 -1003.5  
5989 10. 223933.9 -1000.5  
5990 10. 223925.1 -1047.7

5991 9.3 223945.9 -1033.1  
5992 9.3 224000.5 -1050.0  
5993 9.2 224024.0 -1058.2  
5994 9.8 224025.7 -1011.2  
5995 10. 224030.2 -1053.7  
5996 9.5 224051.8 -1017.4  
5997 9.3 224132.0 -1037.0  
5998 9.8 224201.1 -1053.7  
5999 9.8 224231.9 -1030.2  
6000 10. 224303.4 -1010.8

6001 10. 224308.3 -1009.7  
6002 8.2 224336.1 -1005.6  
6003 9.1 224340.8 -1019.3  
6004 9.6 224353.1 -1040.0  
6005 9.5 224432.7 -1048.3  
6006 8.7 224452.4 -1018.6  
6007 9.5 224503.7 -1014.5  
6008 6.8 224508.2 -1049.3  
6009 10. 224516.8 -1016.9  
6010 9.8 224526.7 -1047.4

-10 6010 22h45m



6011 10. 224529.8 -1012.4  
 6012 9.8 224542.5 -1024.4  
 6013 9.7 224547.6 -1029.0  
 6014 9.7 224625.3 -1050.8  
 6015 9.2 224630.0 -1010.0  
 6016 8.7 224720.2 -1008.8  
 6017 9.5 224740.1 -1023.9  
 6018 8.7 224750.3 -1052.9  
 6019 8.8 224756.1 -1026.2  
 6020 10. 224800.3 -1048.3

6021 9.5 224813.0 -1018.3  
 6022 9.1 224842.2 -1040.6  
 6023 9.4 224849.7 -1044.3  
 6024 9.4 224917.1 -1014.0  
 6025 10. 224928.4 -1044.7  
 6026 9.8 224938.0 -1013.7  
 6027 9.6 225023.3 -1035.4  
 6028 9.6 225048.6 -1022.2  
 6029 10. 225103.4 -1040.7  
 6030 9.4 225119.6 -1048.1

6031 9.4 225124.9 -1004.7  
 6032 10. 225140.2 -1000.7  
 6033 9.3 225155.2 -1026.2  
 6034 9.6 225258.7 -1029.5  
 6035 9.8 225300.9 -1046.4  
 6036 9.6 225302.6 -1007.9  
 6037 9.6 225321.4 -1055.2  
 6038 7.6 225333.5 -1019.8  
 6039 9.8 225359.8 -1001.2  
 6040 9.3 225420.1 -1001.6

6041 9.8 225423.3 -1035.8  
 6042 9.4 225445.8 -1056.8  
 6043 10. 225449.1 -1010.6  
 6044 9.3 225501.3 -1031.6  
 6045 8.9 225530.2 -1021.5  
 6046 9.8 225536.6 -1007.7  
 6047 10. 225553.7 -1049.3  
 6048 9.8 225622.5 -1048.8  
 6049 10. 225633.5 -1038.5  
 6050 9.8 225640.6 -1059.8

6051 9.2 225649.5 -1059.9  
 6052 8.8 225726.8 -1022.0  
 6053 10. 225749.0 -1000.9  
 6054 9.6 225750.0 -1018.3  
 6055 9.8 225816.7 -1049.8  
 6056 9.0 225836.3 -1010.3  
 6057 9.1 225839.9 -1003.3  
 6058 7.7 225842.7 -1023.2  
 6059 9.3 225855.9 -1050.4  
 6060 9.9 225914.8 -1021.8

6061 10. 225952.5 -1031.4  
 6062 9.4 225954.8 -1057.6  
 6063 9.1 230007.0 -1020.4  
 6064 8.6 230009.4 -1027.1  
 6065 9.6 230033.2 -1057.0  
 6066 9.7 230046.8 -1040.0  
 6067 9.7 230057.8 -1054.7  
 6068 9.8 230129.9 -1057.7  
 6069 9.2 230141.7 -1020.5  
 6070 10. 230149.9 -1053.4

6071 9.8 230151.6 -1048.3  
 6072 10. 230229.0 -1042.7  
 6073 10. 230311.9 -1023.2  
 6074 9.7 230339.6 -1052.1  
 6075 9.4 230411.0 -1015.5  
 6076 10. 230414.7 -1050.9  
 6077 9.5 230418.5 -1023.1  
 6078 10. 230433.0 -1017.2  
 6079 10. 230435.3 -1010.5  
 6080 9.3 230456.1 -1037.8

6081 9.2 230503.0 -1058.5  
 6082 7.0 230525.0 -1021.3  
 6083 9.4 230533.6 -1034.0  
 6084 8.6 230556.2 -1042.8  
 6085 9.8 230625.0 -1013.8  
 6086 7.8 230708.6 -1028.6  
 6087 10. 230722.0 -1054.3  
 6088 8.8 230848.3 -1020.2  
 6089 10. 230934.7 -1059.7  
 6090 9.3 230938.5 -1018.0

6091 9.8 231054.8 -1009.7  
 6092 9.3 231055.4 -1003.4  
 6093 9.4 231116.7 -1032.8  
 6094 5.7 231124.0 -1024.3  
 6095 8.5 231206.3 -1028.0  
 6096 9.2 231303.8 -1028.2  
 6097 9.5 231319.2 -1031.6  
 6098 7.5 231418.9 -1033.4  
 6099 10. 231435.8 -1010.2  
 6100 9.5 231454.3 -1023.2

6101 9.4 231503.3 -1013.5  
 6102 9.6 231506.1 -1020.5  
 6103 9.1 231518.8 -1026.3  
 6104 9.3 231528.7 -1023.2  
 6105 8.0 231547.0 -1010.8  
 6106 9.8 231606.9 -1040.8  
 6107 9.5 231648.9 -1032.1  
 6108 9.2 231657.9 -1025.8  
 6109 9.8 231713.1 -1055.1  
 6110 9.8 231724.5 -1045.0

6111 9.4 231751.0 -1051.3  
 6112 9.5 231827.6 -1027.6  
 6113 10. 231829.5 -1002.3  
 6114 8.3 231904.6 -1049.5  
 6115 9.0 231954.4 -1012.2  
 6116 9.0 231954.6 -1024.7  
 6117 9.5 232058.7 -1003.5  
 6118 9.9 232108.6 -1003.5  
 6119 8.5 232121.2 -1053.6  
 6120 7.0 232131.6 -1003.7

6121 9.2 232136.4 -1055.5  
 6122 9.8 232152.0 -1026.9  
 6123 9.3 232215.2 -1003.0  
 6124 9.3 232232.1 -1011.6  
 6125 8.5 232321.5 -1057.3  
 6126 9.5 232420.6 -1030.0  
 6127 9.1 232445.2 -1041.1  
 6128 9.5 232448.2 -1012.7  
 6129 9.2 232517.6 -1015.8  
 6130 8.5 232534.2 -1010.1

6131 8.8 232540.9 -1015.8  
 6132 9.5 232609.3 -1049.3  
 6133 9.3 232638.2 -1004.4  
 6134 8.0 232649.2 -1030.4  
 6135 9.0 232652.3 -1051.4  
 6136 9.8 232733.3 -1055.0  
 6137 9.7 232739.0 -1026.2  
 6138 9.4 232739.1 -1027.5  
 6139 8.0 232746.7 -1029.2  
 6140 9.7 232819.0 -1058.6

6141 9.7 232848.6 -1048.0  
 6142 9.4 232906.4 -1007.9  
 6143 10. 232933.3 -1018.5  
 6144 9.4 233001.4 -1002.8  
 6145 7.8 233012.9 -1046.4  
 6146 9.0 233023.6 -1028.8  
 6147 10. 233104.1 -1007.7  
 6148 8.7 233144.9 -1047.1  
 6149 9.5 233206.2 -1049.6  
 6150 10. 233209.8 -1040.0

6151 9.5 233211.8 -1031.9  
 6152 9.4 233218.5 -1025.7  
 6153 9.3 233210.0 -1040.9  
 6154 9.8 233312.9 -1026.9  
 6155 9.2 233344.5 -1014.6  
 6156 9.8 233345.0 -1004.7  
 6157 9.7 233455.7 -1015.6  
 6158 9.3 233542.4 -1006.6  
 6159 8.9 233557.3 -1020.1  
 6160 8.0 233608.1 -1028.6

6161 9.7 233630.9 -1051.3  
 6162 9.3 233645.8 -1024.9  
 6163 10. 233658.2 -1055.6  
 6164 9.0 233716.0 -1009.5  
 6165 9.8 233733.8 -1040.0  
 6166 9.8 233753.2 -1012.2  
 6167 8.9 233837.8 -1016.0  
 6168 8.3 233951.9 -1037.2  
 6169 8.3 234010.0 -1044.1  
 6170 8.7 234056.1 -1003.3

6171 9.1 234143.8 -1025.9  
 6172 9.3 234146.6 -1019.5  
 6173 9.5 234154.9 -1023.5  
 6174 9.2 234201.9 -1021.8  
 6175 9.8 234221.5 -1014.5  
 6176 8.9 234242.4 -1022.0  
 6177 6.5 234245.6 -1046.7  
 6178 9.7 234305.6 -1014.8  
 6179 9.7 234347.2 -1006.8  
 6180 9.4 234352.4 -1027.0

6181 10. 234400.5 -1038.4  
 6182 9.5 234403.3 -1013.6  
 6183 9.1 234414.4 -1023.3  
 6184 9.4 234449.6 -1034.7  
 6185 8.3 234456.0 -1021.7  
 6186 9.5 234501.6 -1022.4  
 6187 9.2 234501.7 -1012.7  
 6188 9.5 234519.0 -1021.8  
 6189 9.5 234538.2 -1045.9  
 6190 9.0 234545.7 -1015.6

6191 9.0 234603.2 -1048.2  
 6192 7.8 234634.9 -1005.8  
 6193 8.8 234638.0 -1011.9  
 6194 9.8 234648.2 -1049.8  
 6195 9.8 234702.3 -1002.5  
 6196 9.2 234705.1 -1037.1  
 6197 9.4 234733.7 -1054.0  
 6198 7.0 234736.8 -1016.1  
 6199 9.4 234812.1 -1019.5  
 6200 9.3 234813.9 -1034.8

6201 10. 234851.3 -1006.0  
 6202 10. 234854.1 -1052.2  
 6203 8.3 234856.8 -1018.3  
 6204 9.0 234920.3 -1050.0  
 6205 9.4 234921.1 -1013.4  
 6206 7.3 235002.4 -1026.7  
 6207 9.3 235021.7 -1041.2  
 6208 9.5 235057.8 -1012.7  
 6209 9.5 235158.4 -1004.0  
 6210 9.4 235251.5 -1029.9

6211 9.0 235321.7 -1019.7  
 6212 8.5 235406.6 -1014.5  
 6213 9.6 235444.5 -1050.2  
 6214 9.3 235455.4 -1012.6  
 6215 9.8 235558.3 -1053.7  
 6216 9.5 235630.5 -1052.2  
 6217 9.5 235640.3 -1022.0  
 6218 9.8 235641.0 -1002.2  
 6219 9.2 235645.6 -1057.1  
 6220 9.5 235649.4 -1033.4

6221 8.5 235654.5 -1003.4  
 6222 9.2 235711.6 -1051.8  
 6223 9.3 235721.4 -1040.4  
 6224 9.5 235728.2 -1058.8  
 6225 10. 235741.0 -1047.1  
 6226 9.1 235756.9 -1038.6  
 6227 7.5 235804.8 -1025.4  
 6228 9.0 235807.7 -1056.2  
 6229 8.8 235811.0 -1014.2  
 6230 10. 235906.6 -1052.4

1 9.0 00006.6 -1130.9  
 2 8.5 00023.7 -1156.2  
 3 9.5 00046.1 -1100.2  
 4 9.4 00101.0 -1115.0  
 5 9.4 00117.5 -1113.2  
 6 9.0 00128.8 -1155.6  
 7 9.1 00136.5 -1112.0  
 8 9.9 00151.8 -1152.9  
 9 9.8 00224.7 -1139.8  
 10 10. 00231.8 -1107.2

11 9.7 00242.6 -1131.4  
 12 9.0 00256.7 -1146.2  
 13 9.8 00300.4 -1157.5  
 14 10. 00303.9 -1157.2  
 15 9.0 00304.6 -1147.5  
 16 9.1 00317.8 -1139.6  
 17 9.7 00327.6 -1146.3  
 18 9.2 00729.7 -1121.6  
 19 8.9 00340.7 -1141.1  
 20 9.6 00341.5 -1137.6

21 8.6 00428.6 -1158.3  
 22 9.9 00504.9 -1141.2  
 23 9.2 00520.7 -1150.0  
 24 9.8 00527.9 -1105.3  
 25 9.4 00528.6 -1148.9  
 26 10. 00556.3 -1143.1  
 27 9.9 00629.4 -1158.8  
 28 9.0 00635.1 -1145.9  
 29 9.7 00646.3 -1129.8  
 30 9.9 00708.2 -1122.0

31 10. 00732.5 -1144.5  
 32 9.2 00736.7 -1113.1  
 33 8.8 00816.2 -1150.5  
 34 9.5 00830.8 -1143.2  
 35 9.5 00856.5 -1152.5  
 36 9.9 00925.4 -1108.8  
 37 9.0 00937.8 -1116.0  
 38 9.4 00957.5 -1147.9  
 39 9.8 01001.1 -1151.2  
 40 10. 01039.2 -1141.7

41 9.4 01043.0 -1131.3  
 42 9.7 01050.1 -1154.3  
 43 9.3 01102.5 -1101.8  
 44 8.0 01124.9 -1145.2  
 45 9.7 01229.9 -1144.9  
 46 8.3 01254.2 -1158.5  
 47 10. 01313.7 -1139.5  
 48 9.9 01330.4 -1109.5  
 49 9.3 01334.9 -1103.0  
 50 9.8 01339.0 -1131.1

51 9.5 01342.5 -1128.4  
 52 8.5 01358.6 -1129.1  
 53 9.4 01422.5 -1101.8  
 54 10. 01454.4 -1123.1  
 55 9.5 01524.8 -1154.5  
 56 9.3 01525.5 -1122.6  
 57 9.3 01541.7 -1107.2  
 58 9.2 01608.0 -1157.9  
 59 9.5 01613.9 -1104.6  
 60 9.1 01639.1 -1131.4

61 9.5 01645.6 -1124.3  
 62 9.8 01647.4 -1155.0  
 63 9.0 01702.8 -1127.2  
 64 9.5 01759.8 -1158.0  
 65 9.2 01815.8 -1150.7  
 66 9.0 01829.1 -1115.0  
 67 9.5 01850.7 -1103.3  
 68 9.8 01912.9 -1157.6  
 69 9.5 01920.7 -1131.5  
 70 10. 01922.7 -1130.4

71 9.0 01940.8 -1156.8  
 72 9.1 01947.5 -1103.7  
 73 8.9 02048.6 -1118.0  
 74 9.1 02050.2 -1119.0  
 75 9.8 02120.3 -1148.1  
 76 9.0 02122.6 -1106.6  
 77 9.0 02126.9 -1141.8  
 78 9.0 02151.4 -1154.5  
 79 9.0 02205.6 -1149.4  
 80 10. 02238.9 -1145.9

81 9.4 02248.0 -1159.8  
 82 10. 02257.6 -1116.3  
 83 9.4 02311.0 -1146.4  
 84 10. 02319.2 -1109.0  
 85 8.8 02352.3 -1139.6  
 86 10. 02418.7 -1117.7  
 87 9.1 02517.3 -1157.5  
 88 9.8 02546.6 -1128.7  
 89 9.1 02553.4 -1131.5  
 90 9.3 02613.6 -1146.6

91 9.5 02617.8 -1115.5  
 92 9.6 02618.9 -1120.9  
 93 9.6 02619.7 -1139.8  
 94 9.5 02645.9 -1131.1  
 95 9.2 02647.6 -1144.0  
 96 9.8 02710.3 -1144.8  
 97 10. 02720.0 -1159.1  
 98 9.6 02713.6 -1100.0  
 99 9.4 02803.7 -1148.5  
 100 9.4 02827.3 -1104.1

101 9.5 02831.0 -1147.5  
 102 9.1 02832.4 -1115.0  
 103 8.6 02842.3 -1109.2  
 104 8.9 02901.8 -1109.9  
 105 7.5 02931.5 -1155.3  
 106 9.3 03044.1 -1138.1  
 107 9.7 03045.3 -1122.7  
 108 9.2 03047.5 -1126.5  
 109 7.8 03113.1 -1129.3  
 110 9.8 03142.0 -1129.0

111 9.5 03153.4 -1153.7  
 112 9.4 03216.7 -1137.7  
 113 6.9 03224.2 -1156.6  
 114 9.8 03304.8 -1114.4  
 115 9.7 03306.8 -1108.6  
 116 9.1 03344.7 -1117.0  
 117 9.8 03345.3 -1147.1  
 118 9.1 03348.3 -1104.5  
 119 9.8 03402.8 -1141.7  
 120 9.5 03431.6 -1129.6

121 9.8 03432.4 -1121.6  
 122 9.5 03522.7 -1100.9  
 123 9.5 03524.8 -1145.1  
 124 10. 03534.2 -1145.3  
 125 8.3 03542.8 -1117.6  
 126 9.5 03633.2 -1124.3  
 127 9.5 03643.3 -1118.0  
 128 5.0 03651.9 -1124.6  
 129 9.6 03653.4 -1110.7  
 130 10. 03658.0 -1144.3

131 9.5 03710.6 -1105.9  
 132 9.2 03718.6 -1125.9  
 133 10. 03741.3 -1127.4  
 134 9.5 03809.9 -1151.2  
 135 8.3 03815.3 -1152.8  
 136 9.6 03828.0 -1147.5  
 137 10. 03933.2 -1159.8  
 138 9.3 03938.1 -1124.0  
 139 8.0 03941.2 -1157.2  
 140 9.1 04007.8 -1110.9



-11 141 0h40m

141 9.5 04024.4 -1116.1  
142 8.0 04031.3 -1141.8  
143 9.0 04045.4 -1139.7  
144 9.5 04057.3 -1150.0  
145 10. 04105.7 -1128.7  
146 10. 04136.5 -1133.2  
147 9.5 04146.9 -1111.8  
148 10. 04150.5 -1135.6  
149 8.0 04216.4 -1145.4  
150 9.5 04219.1 -1143.8

151 9.5 04220.8 -1136.4  
152 9.4 04235.0 -1117.7  
153 5.8 04251.2 -1125.9  
154 9.2 04322.4 -1140.9  
155 9.5 04334.0 -1140.1  
156 10. 04340.3 -1112.3  
157 9.5 04348.8 -1146.3  
158 9.6 04350.9 -1137.9  
159 9.5 04407.0 -1113.1  
160 9.6 04409.0 -1140.9

161 9.3 04451.9 -1105.7  
162 9.7 04457.1 -1127.3  
163 9.0 04500.4 -1131.4  
164 9.1 04512.1 -1139.8  
165 10. 04548.3 -1106.5  
166 9.3 04600.5 -1147.0  
167 9.0 04619.3 -1127.8  
168 10. 04634.7 -1139.1  
169 9.6 04802.5 -1141.2  
170 9.3 04812.9 -1153.8

171 8.5 04815.4 -1132.1  
172 8.7 04822.0 -1150.5  
173 9.0 04833.3 -1124.3  
174 9.0 04920.6 -1133.6  
175 9.8 04939.0 -1129.1  
176 9.1 04941.0 -1105.2  
177 8.0 05015.7 -1115.5  
178 9.5 05044.2 -1106.5  
179 8.9 05049.3 -1153.9  
180 9.7 05114.5 -1148.5

181 9.0 05131.4 -1138.2  
182 9.8 05132.1 -1115.7  
183 10. 05139.0 -1146.9  
184 9.4 05239.1 -1125.0  
185 9.9 05258.9 -1155.0  
186 10. 05322.8 -1145.6  
187 10. 05401.8 -1113.1  
188 8.7 05419.7 -1100.8  
189 10. 05424.2 -1129.7  
190 9.4 05500.0 -1137.6

191 8.2 05501.7 -1126.6  
192 9.3 05505.3 -1111.7  
193 9.2 05532.3 -1118.8  
194 9.9 05539.3 -1109.0  
195 8.7 05555.1 -1114.4  
196 9.1 05558.4 -1133.0  
197 9.5 05610.9 -1156.5  
198 10. 05616.8 -1108.7  
199 9.9 05636.8 -1159.3  
200 9.9 05639.7 -1155.3

201 9.5 05720.3 -1130.5  
202 9.7 05744.0 -1114.0  
203 9.4 05804.4 -1100.0  
204 9.5 05827.0 -1138.0  
205 9.5 05841.2 -1158.4  
206 9.4 05842.2 -1147.1  
207 7.3 05851.1 -1145.5  
208 9.8 05928.6 -1125.5  
209 9.8 05937.1 -1138.9  
210 9.0 05967.9 -1155.5

211 8.8 10008.7 -1120.8  
212 9.5 10023.4 -1113.4  
213 9.5 10038.4 -1115.7  
214 9.7 10148.3 -1111.5  
215 9.3 10200.3 -1137.3  
216 10. 10200.9 -1151.1  
217 8.5 10212.3 -1136.0  
218 9.3 10230.6 -1119.2  
219 9.8 10234.4 -1143.0  
220 8.6 10258.7 -1107.6

221 9.7 10326.9 -1140.5  
222 9.6 10412.8 -1105.6  
223 9.5 10455.9 -1129.8  
224 7.7 10501.9 -1142.8  
225 9.8 10513.0 -1128.5  
226 10. 10513.0 -1152.6  
227 8.6 10516.7 -1104.4  
228 9.2 10535.4 -1129.2  
229 9.8 10618.5 -1156.0  
230 9.5 10648.4 -1135.5

231 10. 10650.5 -1147.8  
232 9.5 10655.3 -1131.2  
233 9.4 10700.3 -1140.7  
234 10. 10706.5 -1100.7  
235 9.5 10725.4 -1124.1  
236 9.3 10801.9 -1115.2  
237 8.8 10937.0 -1101.8  
238 9.0 10958.6 -1131.4  
239 9.4 11000.7 -1154.4  
240 9.5 11113.6 -1154.6

241 9.5 11138.8 -1104.2  
242 8.4 11145.8 -1144.3  
243 9.3 11151.0 -1113.4  
244 9.5 11209.5 -1117.8  
245 8.8 11218.1 -1126.4  
246 9.4 11257.5 -1104.3  
247 9.5 11308.7 -1111.9  
248 6.3 11315.2 -1159.6  
249 9.5 11317.6 -1110.5  
250 9.0 11334.5 -1146.8

251 10. 11403.1 -1141.6  
252 10. 11421.2 -1130.7  
253 9.9 11431.6 -1126.4  
254 9.8 11438.7 -1137.4  
255 8.3 11515.2 -1122.2  
256 9.2 11538.9 -1146.7  
257 10. 11538.9 -1112.1  
258 9.1 11611.8 -1102.7  
259 9.0 11623.6 -1130.1  
260 9.3 11635.7 -1128.5

261 9.8 11701.1 -1121.4  
262 9.6 11702.7 -1113.8  
263 9.8 11707.6 -1116.1  
264 9.5 11709.7 -1131.2  
265 8.9 11726.2 -1122.4  
266 7.8 11736.0 -1111.2  
267 8.7 11822.1 -1144.7  
268 9.3 11847.7 -1151.0  
269 9.8 11902.3 -1140.4  
270 9.8 11930.7 -1142.0

271 9.8 12007.3 -1118.0  
272 6.2 12033.3 -1139.4  
273 9.5 12049.4 -1137.7  
274 9.9 12057.8 -1122.4  
275 10. 12127.4 -1144.6  
276 10. 12204.7 -1149.3  
277 8.5 12206.3 -1102.2  
278 8.9 12239.2 -1140.0  
279 8.0 12243.6 -1118.6  
280 9.2 12300.9 -1123.4

281 9.9 12315.0 -1151.1  
282 10. 12325.2 -1121.5  
283 8.8 12325.4 -1135.7  
284 9.5 12354.4 -1124.4  
285 8.2 12402.5 -1138.7  
286 9.0 12405.5 -1151.9  
287 9.8 12415.8 -1105.5  
288 9.4 12416.7 -1122.4  
289 9.3 12423.1 -1156.6  
290 7.3 12436.2 -1100.2

291 8.0 12519.8 -1102.7  
292 9.3 12527.4 -1123.0  
293 9.5 12536.5 -1138.5  
294 9.5 12559.7 -1135.0  
295 9.3 12632.9 -1157.7  
296 9.7 12644.2 -1101.7  
297 9.7 12647.8 -1128.0  
298 9.3 12648.2 -1109.5  
299 9.7 12707.8 -1127.6  
300 9.8 12747.6 -1157.7

301 9.7 12800.0 -1114.8  
302 9.1 12814.6 -1145.7  
303 9.3 12822.7 -1107.4  
304 8.9 12839.8 -1126.4  
305 9.5 12913.1 -1136.2  
306 8.4 13018.1 -1104.0  
307 9.3 13022.1 -1125.3  
308 9.0 13026.7 -1133.5  
309 9.5 13034.8 -1146.1  
310 9.8 13040.9 -1125.5

311 9.2 13044.6 -1128.4  
312 7.9 13054.1 -1104.4  
313 8.5 13127.8 -1126.0  
314 9.5 13143.0 -1112.8  
315 7.8 13149.6 -1113.9  
316 10. 13215.7 -1119.5  
317 8.5 13215.7 -1132.3  
318 9.0 13310.6 -1110.5  
319 9.8 13354.2 -1124.0  
320 9.1 13400.4 -1150.4

321 9.6 13434.7 -1121.6  
322 10. 13447.9 -1110.0  
323 8.5 13502.3 -1149.8  
324 9.4 13505.8 -1100.7  
325 9.5 13507.5 -1136.0  
326 9.5 13516.7 -1136.1  
327 9.5 13532.3 -1122.1  
328 9.5 13546.9 -1149.2  
329 8.5 13611.2 -1148.4  
330 9.8 13614.6 -1157.3

331 9.5 13638.7 -1121.4  
332 9.8 13707.1 -1140.2  
333 9.7 13715.5 -1101.1  
334 9.5 13733.4 -1155.7  
335 9.5 13749.8 -1137.2  
336 9.2 13757.2 -1130.3  
337 9.5 13758.3 -1133.0  
338 8.9 13825.9 -1100.5  
339 9.6 13853.4 -1130.6  
340 9.5 13857.0 -1149.1

341 7.3 13921.9 -1119.0  
342 9.8 13930.0 -1155.4  
343 9.3 13935.4 -1125.7  
344 9.9 13952.7 -1148.7  
345 9.5 14020.0 -1101.4  
346 8.7 14036.6 -1142.5  
347 9.8 14106.2 -1100.5  
348 9.0 14136.9 -1133.1  
349 9.1 14143.4 -1136.0  
350 9.9 14153.4 -1125.8

351 7.0 14215.7 -1125.5  
352 4.7 14227.7 -1124.1  
353 8.1 14234.3 -1105.4  
354 9.3 14247.8 -1129.0  
355 9.9 14341.5 -1144.5  
356 9.4 14342.4 -1121.7  
357 9.5 14344.3 -1114.7  
358 8.8 14414.4 -1113.3  
359 3.5 14418.1 -1103.0  
360 9.2 14426.6 -1100.8

361 9.0 14524.3 -1110.4  
362 9.5 14603.3 -1105.1  
363 9.1 14612.4 -1128.4  
364 7.5 14630.3 -1107.9  
365 9.6 14703.9 -1109.9  
366 9.5 14720.0 -1125.6  
367 8.5 14720.5 -1144.5  
368 9.3 14723.4 -1103.6  
369 10. 14730.2 -1159.5  
370 8.9 14800.5 -1127.5

371 9.8 14815.2 -1152.2  
372 9.5 14837.5 -1121.0  
373 9.3 14902.8 -1140.7  
374 9.9 14936.5 -1129.2  
375 9.5 14946.1 -1104.9  
376 9.4 14946.9 -1100.6  
377 10. 15017.7 -1110.8  
378 8.9 15022.5 -1153.7  
379 8.9 15102.6 -1109.3  
380 8.5 15108.1 -1124.2

381 9.3 15116.0 -1110.6  
382 10. 15116.2 -1150.9  
383 9.2 15155.5 -1143.0  
384 9.3 15202.9 -1121.9  
385 9.3 15216.0 -1109.5  
386 7.5 15358.7 -1144.9  
387 9.1 15422.6 -1104.6  
388 9.8 15436.9 -1104.3  
389 9.4 15444.4 -1150.0  
390 9.4 15525.7 -1147.4

391 9.3 15550.4 -1157.3  
392 9.5 15608.1 -1108.2  
393 9.2 15638.4 -1148.6  
394 9.6 15651.8 -1148.3  
395 9.6 15652.6 -1110.7  
396 9.5 15702.4 -1121.9  
397 9.0 15702.7 -1142.8  
398 9.5 15721.3 -1133.3  
399 9.8 15731.2 -1121.9  
400 8.9 15755.9 -1132.8

401 9.4 15807.7 -1116.3  
402 9.3 15945.8 -1118.2  
403 9.5 15949.0 -1145.1  
404 9.0 20014.3 -1114.4  
405 9.2 20015.2 -1112.2  
406 9.1 20022.6 -1151.4  
407 9.4 20024.0 -1140.7  
408 9.2 20031.7 -1110.9  
409 9.3 20101.6 -1158.0  
410 9.8 20126.5 -1141.4

-11 500 2h33m

411 9.6 20128.3 -1108.4  
412 8.7 20138.5 -1141.2  
413 10. 20150.2 -1143.7  
414 9.5 20208.6 -1159.6  
415 9.3 20213.3 -1113.5  
416 8.4 20238.5 -1106.4  
417 9.5 20318.3 -1152.6  
418 9.8 20324.4 -1122.2  
419 9.5 20400.1 -1150.8  
420 9.7 20429.5 -1104.7

421 9.7 20508.7 -1144.4  
422 9.3 20527.9 -1113.0  
423 9.1 20606.9 -1110.7  
424 10. 20623.3 -1101.7  
425 9.0 20637.6 -1112.5  
426 8.5 20716.9 -1120.8  
427 9.5 20810.8 -1128.7  
428 9.5 20844.0 -1108.2  
429 9.6 20900.6 -1109.1  
430 9.5 20912.7 -1134.6

431 9.3 20921.4 -1143.5  
432 9.1 20959.3 -1155.4  
433 9.4 21010.2 -1141.3  
434 9.8 21050.5 -1102.1  
435 9.2 21107.3 -1156.0  
436 9.0 21125.6 -1152.2  
437 9.6 21125.7 -1138.9  
438 9.7 21144.0 -1113.0  
439 9.0 21208.2 -1119.9  
440 8.2 21221.4 -1117.2

441 9.3 21230.3 -1125.7  
442 8.8 21248.7 -1103.1  
443 9.4 21333.9 -1156.9  
444 9.4 21350.1 -1121.3  
445 9.4 21411.8 -1136.3  
446 9.3 21413.7 -1136.5  
447 9.5 21446.9 -1105.5  
448 5.5 21457.7 -1126.6  
449 9.4 21457.9 -1106.4  
450 9.7 21513.9 -1151.5

451 8.9 21515.3 -1147.2  
452 9.1 21605.7 -1120.5  
453 9.2 21609.5 -1154.0  
454 9.5 21633.8 -1136.1  
455 8.8 21647.6 -1101.6  
456 9.5 21654.2 -1123.8  
457 8.8 21807.4 -1108.1  
458 9.5 21839.7 -1143.8  
459 8.0 21846.3 -1117.3  
460 9.1 21911.8 -1146.3

461 9.0 21925.7 -1110.6  
462 9.4 21933.5 -1157.0  
463 8.9 22026.5 -1148.0  
464 9.0 22038.3 -1114.2  
465 9.4 22052.2 -1107.5  
466 9.4 22119.9 -1126.2  
467 8.6 22132.8 -1116.8  
468 7.0 22144.1 -1159.9  
469 9.5 22149.4 -1138.5  
470 8.1 22219.9 -1145.0

471 8.8 22227.7 -1159.5  
472 9.3 22244.0 -1156.1  
473 9.9 22302.7 -1120.0  
474 9.1 22357.5 -1130.8  
475 9.3 22409.1 -1114.3  
476 8.9 22428.4 -1139.5  
477 9.5 22457.6 -1133.6  
478 8.6 22548.6 -1117.3  
479 8.8 22551.7 -1107.6  
480 9.2 22611.2 -1101.1

481 8.7 22613.1 -1106.1  
482 9.4 22616.1 -1158.2  
483 9.7 22619.4 -1123.4  
484 9.2 22808.9 -1132.5  
485 9.7 22811.1 -1132.4  
486 9.7 22901.1 -1122.2  
487 10. 22904.5 -1136.0  
488 9.3 22906.3 -1133.0  
489 7.2 22915.4 -1148.0  
490 10. 22935.6 -1143.5

491 9.5 22935.9 -1151.5  
492 9.0 23004.4 -1127.2  
493 8.1 23007.5 -1149.9  
494 9.5 23014.2 -1145.0  
495 9.8 23035.3 -1112.4  
496 9.5 23209.9 -1133.9  
497 9.8 23218.4 -1103.5  
498 9.7 23238.9 -1143.9  
499 10. 23253.4 -1130.4  
500 9.6 23331.2 -1147.5



-11 501 2h34m

501 9.6 23409.7 -1140.2  
502 9.3 23412.4 -1118.7  
503 9.4 23438.7 -1148.3  
504 9.1 23440.4 -1108.6  
505 9.3 23456.1 -1103.1  
506 9.2 23524.9 -1112.2  
507 8.7 23528.8 -1124.7  
508 8.7 23539.6 -1101.4  
509 9.6 23548.0 -1122.6  
510 9.3 23626.6 -1158.1

511 9.5 23628.5 -1109.7  
512 9.4 23633.3 -1158.4  
513 10. 23714.9 -1113.4  
514 9.2 23735.5 -1101.0  
515 9.4 23745.1 -1134.7  
516 9.2 23805.4 -1149.3  
517 9.4 23823.0 -1118.6  
518 9.6 23834.5 -1101.3  
519 9.1 23835.4 -1122.6  
520 9.0 23936.0 -1118.8

521 9.3 23936.3 -1127.5  
522 8.6 23938.1 -1143.4  
523 9.5 23959.0 -1112.2  
524 10. 24047.2 -1142.0  
525 9.8 24109.4 -1100.2  
526 9.4 24110.7 -1145.8  
527 9.1 24124.2 -1149.8  
528 9.1 24154.0 -1107.2  
529 8.0 24218.8 -1109.1  
530 9.4 24224.2 -1123.2

531 9.5 24229.1 -1120.3  
532 9.5 24249.4 -1128.8  
533 9.1 24301.1 -1116.9  
534 9.8 24313.4 -1141.4  
535 9.8 24409.1 -1109.9  
536 10. 24415.6 -1102.3  
537 9.6 24419.2 -1140.5  
538 9.3 24511.3 -1142.0  
539 9.9 24545.3 -1144.8  
540 9.8 24546.2 -1109.4

541 9.8 24604.0 -1126.7  
542 9.5 24605.0 -1124.6  
543 9.4 24607.8 -1127.1  
544 9.5 24608.9 -1137.0  
545 9.7 24704.6 -1153.9  
546 9.8 24706.4 -1101.8  
547 7.6 24713.9 -1140.7  
548 10. 24742.1 -1148.0  
549 9.7 24746.7 -1116.6  
550 10. 24800.0 -1146.5

551 9.4 24841.3 -1119.9  
552 9.7 24845.7 -1142.9  
553 9.5 24902.1 -1154.5  
554 9.2 24907.7 -1141.9  
555 9.4 24916.5 -1112.3  
556 9.8 24946.7 -1159.6  
557 9.4 24947.1 -1104.7  
558 9.1 24949.7 -1100.0  
559 9.7 24951.5 -1124.4  
560 9.3 25112.1 -1101.4

561 9.4 25117.7 -1104.1  
562 9.3 25123.9 -1144.3  
563 9.8 25128.0 -1102.7  
564 8.8 25154.8 -1132.1  
565 9.8 25156.5 -1101.6  
566 9.0 25218.8 -1125.9  
567 9.3 25226.3 -1106.6  
568 8.1 25230.3 -1115.4  
569 9.4 25250.2 -1154.8  
570 9.4 25311.6 -1145.0

571 8.5 25322.2 -1152.2  
572 9.4 25355.8 -1144.6  
573 9.1 25405.2 -1102.7  
574 9.8 25441.0 -1135.2  
575 9.5 25446.4 -1116.3  
576 9.5 25521.5 -1100.4  
577 9.3 25526.1 -1105.1  
578 9.2 25535.0 -1137.8  
579 7.5 25633.5 -1132.7  
580 9.4 25638.9 -1118.4

581 9.3 25646.3 -1155.2  
582 9.3 25653.4 -1158.8  
583 8.8 25710.3 -1101.3  
584 9.3 25727.5 -1119.5  
585 8.7 25733.5 -1134.6  
586 9.1 25737.0 -1129.1  
587 9.4 25746.9 -1155.9  
588 9.8 25805.3 -1138.8  
589 9.2 25811.2 -1143.4  
590 9.5 25827.6 -1137.7

591 9.9 25849.9 -1104.6  
592 8.9 25857.9 -1154.7  
593 9.6 25919.7 -1145.2  
594 9.5 25927.6 -1140.3  
595 9.5 30005.6 -1133.9  
596 9.6 30031.5 -1132.3  
597 9.7 30107.0 -1133.0  
598 10. 30132.9 -1144.8  
599 9.2 30146.7 -1135.6  
600 9.8 30149.1 -1118.0

601 9.8 30215.5 -1111.7  
602 9.1 30316.7 -1144.1  
603 7.3 30352.7 -1140.5  
604 8.5 30401.2 -1139.2  
605 9.6 30414.9 -1158.0  
606 9.6 30438.5 -1100.8  
607 9.2 30455.3 -1154.4  
608 10. 30524.1 -1110.6  
609 9.3 30540.8 -1136.9  
610 9.9 30542.2 -1126.1

611 9.5 30605.0 -1106.8  
612 9.1 30605.7 -1103.9  
613 9.8 30612.1 -1138.5  
614 9.6 30629.3 -1139.8  
615 9.3 30635.2 -1128.6  
616 9.9 30757.3 -1141.4  
617 9.3 30801.3 -1144.3  
618 9.5 30811.1 -1109.5  
619 9.1 30840.9 -1142.2  
620 9.6 30858.8 -1127.9

621 9.5 30907.4 -1154.4  
622 9.1 30912.7 -1128.4  
623 10. 30915.2 -1109.5  
624 8.8 30916.8 -1123.4  
625 9.0 30918.2 -1145.4  
626 9.9 31007.4 -1148.8  
627 9.0 31017.2 -1142.2  
628 10. 31019.5 -1156.3  
629 9.5 31021.7 -1143.1  
630 8.9 31024.3 -1135.2

631 10. 31032.9 -1124.3  
632 8.7 31102.8 -1104.2  
633 9.2 31103.1 -1150.8  
634 9.2 31105.7 -1153.6  
635 9.5 31139.9 -1153.8  
636 9.7 31153.8 -1128.0  
637 9.5 31214.3 -1127.5  
638 9.1 31222.9 -1153.6  
639 10. 31226.9 -1153.0  
640 7.8 31240.0 -1156.1

641 9.5 31240.7 -1108.8  
642 9.8 31311.9 -1146.7  
643 9.6 31320.3 -1100.6  
644 9.8 31354.3 -1140.7  
645 8.6 31431.5 -1135.6  
646 8.8 31435.1 -1144.6  
647 9.3 31441.8 -1122.4  
648 10. 31452.4 -1123.7  
649 9.8 31453.9 -1146.7  
650 9.0 31525.3 -1112.3

651 9.8 31612.4 -1129.0  
652 7.5 31619.7 -1151.7  
653 9.0 31628.5 -1155.1  
654 9.1 31633.8 -1146.4  
655 9.4 31645.4 -1122.4  
656 9.0 31656.7 -1123.3  
657 9.8 31705.0 -1142.5  
658 9.5 31736.9 -1129.9  
659 9.5 31751.9 -1129.6  
660 9.7 31807.2 -1140.7

661 9.4 31926.5 -1130.7  
662 9.8 31945.0 -1116.0  
663 9.4 32013.4 -1147.9  
664 9.9 32018.4 -1107.0  
665 9.9 32056.9 -1108.6  
666 9.9 32059.4 -1108.6  
667 6.0 32105.7 -1147.3  
668 9.2 32122.3 -1130.0  
669 9.3 32201.2 -1155.1  
670 9.3 32219.6 -1154.0

671 7.6 32221.4 -1103.7  
672 9.4 32247.1 -1148.1  
673 8.1 32303.6 -1138.7  
674 9.7 32313.6 -1143.5  
675 9.1 32342.7 -1151.7  
676 9.1 32347.3 -1156.7  
677 9.8 32407.3 -1157.0  
678 9.0 32417.7 -1153.2  
679 8.5 32418.6 -1125.7  
680 9.5 32456.7 -1154.4

681 10. 32514.2 -1100.1  
682 8.9 32522.5 -1114.0  
683 8.7 32526.0 -1143.5  
684 9.2 32612.9 -1100.9  
685 9.0 32618.8 -1139.7  
686 9.4 32619.2 -1131.2  
687 9.7 32654.0 -1105.9  
688 9.5 32659.5 -1108.9  
689 9.5 32707.2 -1141.3  
690 9.5 32722.1 -1129.7

691 8.8 32741.6 -1116.9  
692 9.5 32751.7 -1133.9  
693 9.5 32814.6 -1101.7  
694 8.5 32837.3 -1133.4  
695 10. 32851.2 -1131.9  
696 5.8 32902.8 -1141.1  
697 9.5 32932.0 -1154.1  
698 9.5 32935.6 -1159.3  
699 9.8 32946.7 -1134.1  
700 9.5 33000.7 -1121.0

701 9.4 33022.0 -1152.1  
702 9.2 33030.3 -1134.5  
703 7.8 33125.6 -1140.7  
704 9.8 33204.6 -1138.9  
705 9.4 33217.8 -1134.2  
706 7.0 33257.2 -1125.0  
707 9.6 33310.3 -1142.1  
708 8.3 33326.5 -1148.4  
709 10. 33327.2 -1145.3  
710 8.3 33340.0 -1145.0

711 9.5 33419.0 -1120.7  
712 9.1 33420.7 -1113.1  
713 9.6 33434.9 -1106.0  
714 8.9 33436.2 -1121.3  
715 9.1 33453.6 -1120.3  
716 8.5 33454.5 -1109.2  
717 10. 33512.3 -1122.2  
718 9.7 33523.4 -1147.4  
719 9.5 33534.1 -1142.5  
720 9.2 33611.4 -1135.4

721 9.9 33612.2 -1117.5  
722 10. 33713.8 -1116.6  
723 10. 33715.0 -1120.8  
724 9.3 33746.0 -1114.3  
725 9.9 33746.3 -1142.4  
726 8.1 33747.6 -1114.0  
727 10. 33818.6 -1125.9  
728 9.9 33824.9 -1144.2  
729 9.8 33836.8 -1145.4  
730 10. 33858.1 -1114.6

731 9.4 33927.2 -1135.0  
732 9.2 33932.1 -1122.9  
733 9.9 33944.0 -1100.0  
734 9.9 33946.3 -1101.6  
735 9.5 34015.4 -1127.6  
736 8.2 34015.5 -1156.6  
737 9.5 34021.2 -1131.7  
738 9.9 34030.7 -1115.1  
739 9.2 34047.3 -1132.1  
740 10. 34050.0 -1104.2

741 10. 34058.5 -1151.2  
742 9.5 34153.2 -1116.4  
743 9.4 34219.4 -1147.4  
744 9.8 34222.7 -1141.8  
745 8.5 34210.8 -1134.9  
746 9.5 34315.6 -1107.6  
747 10. 34328.1 -1104.9  
748 9.5 34440.9 -1147.2  
749 9.9 34446.4 -1122.8  
750 9.5 34507.2 -1109.2

751 9.1 34515.8 -1119.2  
752 9.5 34529.7 -1156.2  
753 9.1 34543.3 -1118.6  
754 9.3 34633.4 -1124.7  
755 9.8 34646.3 -1159.7  
756 9.5 34649.4 -1126.7  
757 9.3 34713.0 -1143.0  
758 9.7 34729.5 -1134.3  
759 8.9 34753.3 -1107.5  
760 9.3 34802.4 -1123.8

761 9.5 34845.0 -1131.4  
762 8.3 34917.3 -1105.2  
763 9.4 34936.4 -1144.0  
764 7.2 34938.1 -1116.6  
765 9.5 35006.3 -1104.9  
766 9.3 35017.4 -1150.4  
767 9.6 35025.7 -1124.3  
768 8.8 35041.7 -1152.7  
769 9.6 35052.9 -1111.7  
770 8.0 35207.2 -1151.3

-11 860 4h15m

771 9.5 35233.3 -1145.0  
772 9.3 35301.1 -1137.0  
773 9.8 35301.8 -1131.5  
774 9.8 35309.4 -1154.9  
775 9.9 35310.9 -1156.4  
776 10. 35319.5 -1108.3  
777 8.6 35321.0 -1104.9  
778 9.3 35321.4 -1142.2  
779 9.8 35420.1 -1104.9  
780 10. 35425.4 -1156.0

781 9.0 35436.5 -1143.9  
782 9.1 35504.4 -1149.2  
783 9.5 35516.0 -1110.4  
784 9.1 35537.5 -1118.7  
785 8.5 35540.2 -1149.2  
786 9.4 35541.4 -1127.1  
787 9.0 35554.6 -1120.5  
788 9.0 35605.5 -1119.6  
789 9.2 35621.1 -1103.4  
790 9.3 35642.1 -1126.3

791 9.0 35701.4 -1118.0  
792 9.5 35709.5 -1159.9  
793 9.9 35726.0 -1140.8  
794 10. 35744.8 -1152.5  
795 9.4 35751.0 -1109.0  
796 9.8 35806.9 -1147.8  
797 9.2 35822.0 -1156.5  
798 9.3 35851.2 -1100.7  
799 9.5 35918.3 -1104.9  
800 9.6 35953.3 -1155.9

801 10. 40011.4 -1152.2  
802 9.1 40044.5 -1146.2  
803 9.0 40045.1 -1107.6  
804 9.4 40046.4 -1131.9  
805 9.0 40103.6 -1122.7  
806 9.5 40106.5 -1158.0  
807 9.0 40107.3 -1106.9  
808 9.5 40157.9 -1157.5  
809 8.8 40204.9 -1119.1  
810 10. 40214.4 -1143.8

811 10. 40240.3 -1128.5  
812 10. 40246.8 -1158.4  
813 9.2 40254.3 -1100.0  
814 9.1 40256.9 -1139.4  
815 9.6 40311.9 -1138.5  
816 9.3 40316.2 -1114.6  
817 9.4 40336.3 -1133.9  
818 9.5 40346.2 -1156.8  
819 9.2 40346.7 -1126.4  
820 9.7 40346.7 -1100.9

821 7.8 40352.8 -1142.8  
822 9.5 40354.5 -1135.9  
823 9.6 40413.4 -1135.9  
824 9.1 40432.2 -1147.2  
825 8.9 40446.3 -1117.8  
826 9.8 40532.3 -1141.3  
827 9.5 40537.6 -1132.4  
828 9.0 40555.0 -1143.0  
829 8.6 40604.6 -1129.8  
830 9.8 40629.6 -1113.8

831 9.1 40636.5 -1124.5  
832 9.4 40700.7 -1140.7  
833 9.2 40702.5 -1117.8  
834 9.3 40715.3 -1131.2  
835 9.0 40742.5 -1119.0  
836 9.4 40801.4 -1143.5  
837 9.9 40803.2 -1126.8  
838 9.3 40803.3 -1140.9  
839 9.4 40854.7 -1137.7  
840 9.8 40904.3 -1158.2

841 9.4 40941.8 -1156.5  
842 10. 40953.2 -1128.8  
843 9.8 41005.2 -1123.8  
844 9.4 41007.1 -1137.1  
845 9.6 41007.5 -1117.7  
846 9.2 41040.9 -1127.4  
847 9.4 4107.6 -1110.1  
848 9.4 41122.8 -1121.5  
849 10. 41134.7 -1112.8  
850 9.7 41201.4 -1124.9

851 9.9 41225.8 -1151.6  
852 9.8 41235.7 -1150.9  
853 9.5 41243.4 -1117.4  
854 9.8 41245.3 -1144.6  
855 8.6 41318.4 -1154.5  
856 10. 41337.6 -1109.7  
857 9.0 41410.9 -1158.6  
858 8.0 41414.3 -1150.7  
859 10. 41529.9 -1129.4  
860 9.6 41532.2 -1118.0



-11 861 4h15m

861 9.8 41536.3 -1151.9  
862 9.1 41537.9 -1125.0  
863 9.0 41551.9 -1149.3  
864 9.5 41609.7 -1140.1  
865 9.4 41627.0 -1110.0  
866 9.0 41704.4 -1156.5  
867 9.4 41707.2 -1127.6  
868 9.5 41710.6 -1117.1  
869 9.2 41711.3 -1121.5  
870 9.3 41735.1 -1116.8  
  
871 9.4 41820.9 -1154.5  
872 9.1 41856.8 -1123.4  
873 9.0 41910.0 -1130.0  
874 9.5 41913.5 -1131.2  
875 10. 41922.3 -1119.1  
876 9.7 41946.0 -1124.2  
877 8.7 42011.0 -1139.2  
878 10. 42019.8 -1121.7  
879 9.7 42042.4 -1124.2  
880 7.5 42057.5 -1126.6  
  
881 8.7 42109.5 -1129.8  
882 9.2 42134.7 -1116.2  
883 9.8 42148.9 -1153.1  
884 9.6 42156.5 -1124.1  
885 9.7 42156.5 -1104.3  
886 8.2 42204.1 -1122.6  
887 9.8 42226.7 -1102.9  
888 9.6 42237.8 -1141.7  
889 9.3 42249.2 -1138.0  
890 9.1 42251.2 -1101.8  
  
891 8.1 42325.9 -1152.6  
892 10. 42336.3 -1154.6  
893 9.5 42351.2 -1156.0  
894 8.9 42355.6 -1115.5  
895 9.6 42404.8 -1159.4  
896 9.7 42410.1 -1131.8  
897 9.8 42452.6 -1108.6  
898 9.4 42522.0 -1124.2  
899 8.7 42627.2 -1108.5  
900 6.5 42630.9 -1105.6  
  
901 9.3 42641.0 -1124.6  
902 9.0 42653.2 -1159.4  
903 9.2 42706.0 -1144.0  
904 8.5 42751.6 -1156.4  
905 9.2 42753.3 -1146.0  
906 10. 42809.9 -1115.3  
907 8.9 42838.0 -1152.6  
908 9.4 42846.0 -1123.2  
909 9.6 42926.9 -1103.1  
910 9.1 42931.5 -1154.6  
  
911 8.5 42935.2 -1133.5  
912 9.4 42938.4 -1131.7  
913 10. 42958.0 -1154.6  
914 9.5 43000.9 -1122.7  
915 9.3 43047.1 -1131.4  
916 9.8 43055.4 -1119.6  
917 9.5 43102.3 -1116.4  
918 9.4 43104.0 -1126.5  
919 10. 43116.7 -1157.5  
920 8.3 43117.8 -1127.4  
  
921 9.1 43121.8 -1140.9  
922 9.3 43138.3 -1141.2  
923 10. 43151.4 -1105.5  
924 9.5 43203.2 -1107.6  
925 9.3 43203.3 -1105.3  
926 10. 43231.1 -1116.9  
927 10. 43237.5 -1151.8  
928 9.1 43241.2 -1159.2  
929 8.9 43243.7 -1121.9  
930 9.2 43253.7 -1144.2  
  
931 9.3 43303.4 -1114.0  
932 9.7 43335.8 -1146.3  
933 10. 43353.4 -1147.9  
934 9.3 43411.1 -1127.5  
935 9.0 43433.0 -1120.6  
936 9.0 43501.7 -1159.5  
937 9.5 43502.9 -1127.7  
938 8.3 43510.0 -1152.2  
939 9.1 43521.1 -1155.3  
940 9.5 43524.8 -1135.7  
  
941 9.8 43547.5 -1121.3  
942 9.4 43606.8 -1137.5  
943 9.9 43615.7 -1144.1  
944 9.9 43656.8 -1134.9  
945 9.0 43703.7 -1127.7  
946 9.9 43710.2 -1135.4  
947 9.3 43713.3 -1100.0  
948 10. 43802.3 -1159.6  
949 9.3 43816.7 -1102.6  
950 9.8 43821.8 -1107.6

951 9.5 43826.5 -1149.8  
952 9.4 43835.6 -1125.8  
953 9.1 43839.9 -1106.0  
954 10. 43913.8 -1159.2  
955 7.3 43921.7 -1149.7  
956 9.8 43950.7 -1154.5  
957 9.3 43953.5 -1103.6  
958 9.1 44001.0 -1114.4  
959 9.8 44001.9 -1112.6  
960 9.4 44040.4 -1121.3  
  
961 9.1 44041.6 -1120.6  
962 10. 44048.9 -1112.4  
963 9.8 44053.7 -1146.7  
964 9.1 44103.1 -1150.4  
965 9.2 44110.9 -1111.2  
966 9.0 44121.6 -1126.0  
967 9.3 44127.5 -1119.6  
968 10. 44131.5 -1146.2  
969 9.1 44137.8 -1107.8  
970 9.6 44145.1 -1150.9  
  
971 9.6 44218.3 -1151.4  
972 8.9 44220.2 -1143.2  
973 9.8 44228.1 -1121.7  
974 9.5 44247.8 -1130.1  
975 9.5 44247.8 -1147.0  
976 9.5 44259.8 -1107.4  
977 9.6 44309.9 -1158.9  
978 9.2 44347.3 -1157.2  
979 9.8 44354.3 -1133.4  
980 9.8 44355.6 -1158.5  
  
981 8.0 44423.8 -1106.9  
982 8.5 44424.7 -1113.0  
983 9.5 44521.2 -1105.6  
984 9.6 44529.8 -1140.5  
985 10. 44531.1 -1122.5  
986 9.4 44532.1 -1112.9  
987 9.2 44544.0 -1153.4  
988 9.8 44553.4 -1133.0  
989 9.5 44600.8 -1156.7  
990 9.6 44605.4 -1159.4  
  
991 9.5 44629.3 -1131.6  
992 9.8 44708.9 -1120.6  
993 8.3 44715.7 -1121.1  
994 9.5 44727.9 -1134.7  
995 8.9 44748.2 -1150.6  
996 9.6 44757.4 -1137.3  
997 9.5 44758.1 -1103.9  
998 9.0 44806.0 -1136.7  
999 9.6 44808.9 -1108.8  
1000 8.4 44819.4 -1159.1  
  
1001 9.0 44841.3 -1157.3  
1002 8.7 44845.3 -1106.8  
1003 8.7 44845.5 -1137.0  
1004 10. 44908.5 -1139.1  
1005 10. 44911.9 -1105.6  
1006 9.5 44919.9 -1109.0  
1007 9.5 44931.7 -1148.7  
1008 8.5 44933.0 -1117.0  
1009 10. 44950.6 -1147.2  
1010 9.5 44951.9 -1136.4  
  
1011 8.5 44956.4 -1110.5  
1012 8.6 45023.0 -1114.5  
1013 8.4 45036.2 -1121.6  
1014 9.3 45051.9 -1141.9  
1015 10. 45101.9 -1102.9  
1016 8.7 45106.3 -1151.9  
1017 10. 45126.8 -1156.1  
1018 9.8 45137.7 -1153.1  
1019 9.3 45139.5 -1140.0  
1020 9.0 45216.0 -1137.2  
  
1021 9.5 45218.2 -1128.5  
1022 9.9 45224.3 -1129.8  
1023 9.5 45235.9 -1153.0  
1024 9.7 45236.4 -1110.0  
1025 9.8 45246.1 -1112.5  
1026 10. 45303.6 -1144.9  
1027 9.5 45325.6 -1145.8  
1028 9.0 45326.7 -1130.9  
1029 9.1 45344.4 -1106.1  
1030 10. 45348.3 -1131.1  
  
1031 9.1 45357.9 -1101.5  
1032 10. 45411.7 -1144.9  
1033 10. 45412.9 -1155.1  
1034 9.5 45414.2 -1118.2  
1035 9.5 45415.3 -1137.6  
1036 7.0 45415.9 -1125.1  
1037 8.5 45417.5 -1110.1  
1038 9.3 45439.3 -1140.2  
1039 9.7 45442.5 -1116.4  
1040 7.0 45458.5 -1109.1

1041 9.5 45503.5 -1136.1  
1042 9.5 45504.9 -1100.0  
1043 9.5 45513.0 -1110.6  
1044 9.0 45518.7 -1118.4  
1045 9.6 45540.4 -1157.0  
1046 9.3 45547.0 -1149.5  
1047 9.2 45556.3 -1150.1  
1048 9.5 45647.5 -1109.4  
1049 8.7 45704.6 -1151.9  
1050 8.7 45708.2 -1144.4  
  
1051 10. 45708.6 -1150.3  
1052 9.5 45744.0 -1109.6  
1053 9.1 45750.3 -1122.8  
1054 7.8 45800.9 -1153.7  
1055 9.3 45802.4 -1155.7  
1056 9.7 45808.2 -1117.6  
1057 9.0 45813.1 -1110.8  
1058 9.5 45851.2 -1117.8  
1059 10. 45900.3 -1125.8  
1060 8.8 45913.0 -1141.9  
  
1061 9.5 45920.3 -1124.9  
1062 9.5 45931.3 -1123.6  
1063 8.8 45938.7 -1150.9  
1064 9.0 45939.1 -1113.8  
1065 9.5 45951.6 -1143.3  
1066 9.3 45954.2 -1118.3  
1067 9.0 50011.8 -1155.3  
1068 9.5 50014.1 -1141.9  
1069 9.5 50029.0 -1105.6  
1070 8.5 50035.6 -1145.0  
  
1071 9.5 50038.0 -1108.0  
1072 9.5 50053.8 -1158.5  
1073 9.5 50101.2 -1119.2  
1074 9.3 50105.6 -1113.9  
1075 9.5 50106.3 -1127.2  
1076 10. 50127.2 -1116.4  
1077 9.5 50139.7 -1153.0  
1078 9.3 50152.3 -1126.6  
1079 10. 50209.7 -1151.6  
1080 9.2 50213.1 -1110.5  
  
1081 10. 50223.8 -1154.7  
1082 8.0 50234.2 -1118.5  
1083 9.0 50242.0 -1108.7  
1084 9.0 50302.8 -1158.3  
1085 9.5 50307.1 -1101.9  
1086 9.5 50315.6 -1147.6  
1087 9.4 50320.7 -1151.6  
1088 8.5 50328.5 -1140.0  
1089 7.5 50347.7 -1149.9  
1090 8.8 50350.3 -1105.8  
  
1091 10. 50409.2 -1119.5  
1092 10. 50418.7 -1153.4  
1093 9.5 50431.3 -1125.2  
1094 9.0 50442.4 -1120.1  
1095 9.5 50443.0 -1103.7  
1096 9.5 50458.0 -1126.5  
1097 9.5 50508.2 -1115.8  
1098 7.8 50509.0 -1108.2  
1099 9.0 50514.3 -1126.1  
1100 8.0 50529.8 -1158.7  
  
1101 9.2 50602.2 -1118.5  
1102 10. 50627.8 -1152.9  
1103 10. 50629.1 -1110.0  
1104 10. 50637.6 -1113.2  
1105 8.5 50640.3 -1129.3  
1106 9.3 50653.2 -1121.2  
1107 10. 50657.6 -1101.5  
1108 9.2 50711.7 -1148.9  
1109 9.2 50753.4 -1129.6  
1110 10. 50801.3 -1123.3  
  
1111 9.5 50817.3 -1125.7  
1112 9.5 50826.7 -1147.0  
1113 9.0 50840.9 -1152.8  
1114 9.5 50855.1 -1107.3  
1115 9.5 50900.9 -1100.0  
1116 10. 50912.8 -1150.6  
1117 7.0 50923.5 -1131.0  
1118 9.0 50933.9 -1158.7  
1119 8.0 50944.4 -1125.1  
1120 10. 50959.3 -1121.1  
  
1121 10. 51006.9 -1132.5  
1122 10. 51016.6 -1140.7  
1123 10. 51021.8 -1151.4  
1124 10. 51028.8 -1151.8  
1125 9.7 51046.9 -1156.7  
1126 9.0 51056.1 -1108.0  
1127 9.5 51057.6 -1126.9  
1128 10. 51128.4 -1138.3  
1129 10. 51155.3 -1122.3  
1130 9.0 51213.3 -1117.4

1131 9.5 51228.7 -1142.9  
1132 10. 51236.7 -1110.6  
1133 9.3 51247.3 -1121.5  
1134 8.2 51253.1 -1110.7  
1135 10. 51258.3 -1120.1  
1136 9.5 51202.9 -1154.5  
1137 9.4 51303.1 -1139.8  
1138 8.5 51326.1 -1113.0  
1139 9.5 51329.8 -1150.5  
1140 9.0 51338.7 -1143.8  
  
1141 9.5 51340.6 -1108.9  
1142 9.5 51347.7 -1142.8  
1143 9.5 51350.3 -1122.3  
1144 9.5 51356.1 -1112.0  
1145 9.5 51407.1 -1138.8  
1146 8.5 51411.7 -1145.1  
1147 9.0 51446.6 -1137.5  
1148 9.4 51459.9 -1154.0  
1149 10. 51504.6 -1134.8  
1150 9.5 51531.4 -1127.6  
  
1151 9.5 51535.5 -1134.3  
1152 9.6 51600.7 -1143.7  
1153 9.5 51601.5 -1146.7  
1154 9.7 51606.9 -1156.1  
1155 10. 51608.8 -1151.4  
1156 9.3 51613.3 -1129.3  
1157 9.7 51621.7 -1102.8  
1158 8.3 51646.3 -1120.1  
1159 9.8 51647.9 -1129.4  
1160 9.0 51654.2 -1156.3  
  
1161 9.8 51726.3 -1102.7  
1162 9.7 51748.3 -1118.1  
1163 9.3 51752.4 -1127.9  
1164 8.6 51752.7 -1107.4  
1165 10. 51801.3 -1121.7  
1166 9.1 51803.5 -1138.2  
1167 8.1 51825.4 -1126.7  
1168 9.0 51826.4 -1126.7  
1169 9.8 51845.9 -1158.3  
1170 8.8 51917.2 -1102.7  
  
1171 9.0 51942.0 -1139.6  
1172 9.6 51943.8 -1145.3  
1173 9.5 51945.3 -1119.8  
1174 9.5 52003.9 -1157.7  
1175 9.7 52042.7 -1142.1  
1176 9.7 52046.9 -1159.1  
1177 9.5 52048.4 -1125.2  
1178 9.5 52057.7 -1142.2  
1179 10. 52114.0 -1132.8  
1180 9.7 52121.8 -1101.7  
  
1181 9.7 52123.3 -1125.1  
1182 9.0 52135.6 -1137.2  
1183 9.5 52138.3 -1119.8  
1184 9.0 52142.2 -1111.8  
1185 9.2 52143.1 -1139.5  
1186 9.5 52158.1 -1106.9  
1187 9.4 52159.7 -1100.8  
1188 9.0 52210.5 -1122.0  
1189 9.3 52214.6 -1152.7  
1190 9.2 52217.6 -1130.5  
  
1191 9.5 52230.9 -1147.9  
1192 9.5 52239.8 -1145.2  
1193 9.7 52252.7 -1126.3  
1194 9.5 52317.9 -1148.7  
1195 8.3 52320.6 -1133.1  
1196 9.5 52323.4 -1121.5  
1197 9.0 52331.9 -1152.6  
1198 10. 52355.2 -1159.7  
1199 9.2 52411.2 -1110.0  
1200 9.2 52439.4 -1118.9  
  
1201 9.6 52440.6 -1156.2  
1202 10. 52444.3 -1134.1  
1203 9.4 52457.4 -1118.4  
1204 9.5 52503.1 -1103.2  
1205 9.5 52603.8 -1140.7  
1206 9.5 52605.2 -1106.3  
1207 9.5 52621.2 -1107.5  
1208 8.8 52677.9 -1132.3  
1209 9.2 52633.2 -1109.2  
1210 9.5 52653.9 -1147.7  
  
1211 9.5 52708.2 -1115.2  
1212 9.0 52713.2 -1106.2  
1213 9.5 52718.8 -1143.3  
1214 8.0 52719.3 -1127.8  
1215 10. 52728.7 -1138.4  
1216 9.5 52731.1 -1159.8  
1217 8.5 52736.9 -1151.7  
1218 9.2 52754.6 -1132.9  
1219 8.0 52800.0 -1153.9  
1220 9.5 52801.8 -1145.9

-11 1220 5h28m



-11 1221 5h28m

1221 9.5 52805.0 -1154.8  
1222 9.4 52807.8 -1141.0  
1223 9.1 52823.4 -1119.6  
1224 9.2 52833.9 -1148.6  
1225 9.5 52841.9 -1151.7  
1226 10. 52847.8 -1132.9  
1227 8.8 52908.0 -1156.6  
1228 9.3 52925.8 -1140.9  
1229 9.4 52939.8 -1146.3  
1230 9.5 52942.3 -1110.6  
  
1231 8.5 52951.0 -1153.9  
1232 9.7 52955.6 -1124.4  
1233 9.0 53006.9 -1149.4  
1234 9.0 53017.6 -1132.0  
1235 9.5 53018.3 -1110.1  
1236 9.2 53020.9 -1148.5  
1237 9.5 53021.8 -1141.8  
1238 6.5 53023.0 -1152.1  
1239 9.0 53025.3 -1110.1  
1240 9.0 53027.6 -1129.7  
  
1241 9.0 53042.1 -1159.2  
1242 9.8 53043.6 -1131.6  
1243 9.3 53052.0 -1154.4  
1244 9.0 53125.7 -1137.4  
1245 10. 53125.9 -1151.8  
1246 9.2 53133.4 -1120.8  
1247 9.9 53146.2 -1143.3  
1248 10. 53156.4 -1119.5  
1249 9.0 53215.2 -1107.0  
1250 9.5 53225.3 -1146.3  
  
1251 8.0 53237.4 -1117.1  
1252 9.0 53257.6 -1131.8  
1253 9.3 53319.0 -1153.6  
1254 9.0 53330.4 -1119.7  
1255 9.0 53340.1 -1159.5  
1256 9.5 53354.4 -1120.1  
1257 9.0 53406.1 -1157.2  
1258 7.0 53406.4 -1116.7  
1259 9.5 53418.1 -1159.1  
1260 8.8 53422.4 -1103.9  
  
1261 9.7 53427.0 -1114.8  
1262 9.5 53438.6 -1131.8  
1263 9.5 53441.7 -1138.5  
1264 9.0 53446.8 -1146.1  
1265 10. 53534.6 -1152.3  
1266 9.9 53536.6 -1134.6  
1267 7.5 53546.8 -1142.0  
1268 9.5 53547.1 -1129.9  
1269 8.5 53616.0 -1153.6  
1270 8.0 53651.6 -1121.9  
  
1271 9.2 53655.0 -1149.1  
1272 9.2 53654.1 -1157.1  
1273 9.3 53701.3 -1108.0  
1274 10. 53751.0 -1151.4  
1275 9.0 53805.2 -1106.6  
1276 9.3 53816.0 -1148.8  
1277 9.4 53816.6 -1159.5  
1278 9.0 53822.0 -1147.8  
1279 10. 53845.4 -1114.8  
1280 10. 53913.8 -1137.1  
  
1281 9.5 53934.7 -1129.4  
1282 8.0 53942.9 -1104.9  
1283 9.2 53946.9 -1142.9  
1284 9.5 54006.0 -1151.4  
1285 9.5 54015.8 -1138.8  
1286 9.0 54037.7 -1133.0  
1287 9.0 54038.1 -1127.2  
1288 9.0 54042.8 -1134.3  
1289 9.5 54119.8 -1135.2  
1290 9.5 54123.1 -1155.3  
  
1291 8.5 54146.6 -1124.4  
1292 9.5 54151.9 -1145.1  
1293 9.0 54159.4 -1114.6  
1294 9.7 54213.8 -1134.3  
1295 10. 54214.3 -1137.9  
1296 9.0 54216.4 -1109.8  
1297 9.0 54219.3 -1107.6  
1298 9.8 54243.1 -1153.5  
1299 8.8 54316.1 -1152.5  
1300 9.5 54328.7 -1128.9  
  
1301 9.7 54348.6 -1146.6  
1302 10. 54357.5 -1119.1  
1303 9.5 54403.7 -1131.2  
1304 7.0 54435.9 -1140.9  
1305 8.5 54511.6 -1123.4  
1306 9.6 54519.9 -1142.5  
1307 9.5 54520.6 -1123.5  
1308 9.0 54529.1 -1157.9  
1309 9.5 54547.8 -1133.7  
1310 9.5 54603.3 -1106.1

1311 9.7 54606.0 -1152.0  
1312 9.1 54610.2 -1158.4  
1313 10. 54617.0 -1147.6  
1314 9.8 54619.6 -1154.7  
1315 8.6 54625.3 -1138.7  
1316 9.3 54631.5 -1151.7  
1317 9.5 54705.0 -1150.3  
1318 10. 54730.6 -1126.2  
1319 9.5 54740.8 -1138.3  
1320 8.5 54754.0 -1151.1  
  
1321 6.0 54758.3 -1148.0  
1322 9.7 54802.4 -1100.3  
1323 8.9 54809.7 -1120.8  
1324 10. 54815.5 -1101.6  
1325 9.3 54848.8 -1115.5  
1326 8.5 54904.4 -1141.0  
1327 9.3 54908.8 -1157.1  
1328 9.0 54922.4 -1141.9  
1329 9.4 54924.8 -1158.4  
1330 8.0 54941.9 -1117.7  
  
1331 9.5 54950.8 -1158.8  
1332 9.5 55000.6 -1103.8  
1333 9.0 55003.5 -1147.2  
1334 10. 55010.6 -1150.8  
1335 10. 55011.4 -1140.1  
1336 9.1 55027.9 -1150.8  
1337 9.5 55031.9 -1119.5  
1338 10. 55040.2 -1105.7  
1339 10. 55048.1 -1126.5  
1340 9.4 55117.5 -1146.1  
  
1341 10. 55121.1 -1128.2  
1342 9.2 55129.1 -1126.1  
1343 9.5 55135.0 -1122.1  
1344 9.5 55142.6 -1148.9  
1345 8.5 55149.1 -1103.6  
1346 9.0 55158.8 -1116.3  
1347 9.3 55222.8 -1157.4  
1348 9.5 55227.5 -1145.8  
1349 9.0 55250.4 -1142.7  
1350 10. 55254.5 -1144.9  
  
1351 9.0 55257.4 -1140.0  
1352 9.0 55307.4 -1139.1  
1353 9.7 55326.7 -1153.3  
1354 10. 55328.9 -1120.3  
1355 9.5 55331.8 -1159.1  
1356 9.5 55422.6 -1147.8  
1357 9.0 55428.4 -1142.4  
1358 9.5 55433.3 -1101.6  
1359 8.8 55450.1 -1102.5  
1360 9.7 55537.0 -1122.3  
  
1361 9.5 55552.0 -1108.1  
1362 9.5 55601.8 -1114.7  
1363 8.0 55607.0 -1120.4  
1364 9.0 55610.7 -1109.1  
1365 9.5 55612.2 -1130.1  
1366 8.5 55620.7 -1153.2  
1367 9.2 55646.7 -1106.7  
1368 9.4 55649.7 -1109.4  
1369 9.5 55656.3 -1136.6  
1370 10. 55713.8 -1110.3  
  
1371 9.6 55717.1 -1103.2  
1372 9.2 55726.7 -1109.4  
1373 9.5 55737.8 -1159.4  
1374 9.5 55738.7 -1109.4  
1375 9.0 55755.1 -1128.2  
1376 9.5 55806.4 -1138.9  
1377 9.7 55809.0 -1124.6  
1378 9.7 55836.9 -1117.9  
1379 10. 55842.2 -1131.3  
1380 10. 55842.9 -1118.4  
  
1381 9.8 55845.3 -1134.5  
1382 9.0 55923.2 -1131.3  
1383 9.0 55957.7 -1156.6  
1384 10. 60001.6 -1148.6  
1385 10. 60003.6 -1102.9  
1386 7.0 60004.7 -1109.3  
1387 9.0 60014.3 -1137.8  
1388 9.5 60019.2 -1132.9  
1389 9.2 60022.6 -1103.0  
1390 9.8 60100.5 -1145.9  
  
1391 9.5 60118.6 -1104.9  
1392 9.0 60138.1 -1127.5  
1393 7.2 60138.7 -1107.5  
1394 9.8 60140.2 -1112.5  
1395 8.5 60221.2 -1131.6  
1396 9.0 60233.4 -1139.6  
1397 9.0 60237.8 -1156.2  
1398 9.7 60247.3 -1137.3  
1399 9.5 60258.9 -1116.3  
1400 9.5 60300.1 -1125.7

1401 10. 60303.5 -1142.7  
1402 10. 60328.5 -1145.4  
1403 9.1 60334.1 -1194.8  
1404 8.5 60342.6 -1150.1  
1405 9.5 60419.5 -1144.9  
1406 9.5 60426.7 -1106.5  
1407 9.4 60438.3 -1130.2  
1408 9.4 60452.8 -1149.8  
1409 8.7 60511.5 -1154.5  
1410 9.1 60530.2 -1128.6  
  
1411 9.5 60532.8 -1142.2  
1412 9.3 60547.0 -1103.3  
1413 8.5 60556.8 -1109.3  
1414 10. 60615.4 -1159.0  
1415 9.8 60649.5 -1109.6  
1416 9.8 60655.5 -1170.0  
1417 9.6 60657.6 -1149.2  
1418 9.4 60711.3 -1132.4  
1419 9.1 60712.3 -1110.1  
1420 8.7 60713.2 -1108.7  
  
1421 10. 60725.6 -1100.1  
1422 9.5 60727.3 -1159.9  
1423 9.9 60728.4 -1133.0  
1424 9.3 60803.4 -1114.4  
1425 8.5 60804.4 -1106.3  
1426 8.8 60809.1 -1145.5  
1427 8.7 60827.9 -1152.3  
1428 8.8 60833.0 -1135.6  
1429 6.8 60838.3 -1151.3  
1430 9.2 60841.0 -1137.6  
  
1431 9.8 60849.1 -1131.2  
1432 9.2 60859.4 -1132.4  
1433 9.5 60906.5 -1135.8  
1434 8.8 60940.7 -1106.0  
1435 10. 60948.8 -1127.3  
1436 7.0 60958.0 -1159.7  
1437 9.2 61011.1 -1122.3  
1438 8.5 61036.0 -1119.9  
1439 9.8 61054.8 -1132.4  
1440 9.4 61057.0 -1135.8  
  
1441 9.5 61102.1 -1139.3  
1442 9.5 61110.7 -1108.3  
1443 9.7 61123.0 -1151.7  
1444 9.0 61156.9 -1132.3  
1445 9.5 61215.3 -1109.2  
1446 9.1 61224.8 -1151.7  
1447 9.3 61226.6 -1148.4  
1448 9.8 61230.7 -1107.6  
1449 8.9 61249.7 -1100.3  
1450 9.6 61253.9 -1148.1  
  
1451 9.1 61258.0 -1155.5  
1452 10. 61317.6 -1100.5  
1453 10. 61333.4 -1142.6  
1454 9.3 61342.9 -1113.2  
1455 10. 61403.7 -1124.8  
1456 9.6 61411.9 -1137.4  
1457 8.9 61412.7 -1147.0  
1458 8.8 61415.5 -1137.1  
1459 6.8 61420.1 -1145.3  
1460 5.9 61439.0 -1142.3  
  
1461 8.7 61448.9 -1100.6  
1462 9.7 61504.5 -1146.0  
1463 9.8 61537.2 -1100.4  
1464 9.3 61541.0 -1117.7  
1465 9.5 61541.4 -1136.2  
1466 9.4 61541.9 -1144.9  
1467 10. 61551.2 -1117.7  
1468 10. 61551.8 -1127.0  
1469 9.2 61616.4 -1145.8  
1470 9.8 61627.0 -1117.0  
  
1471 9.8 61630.6 -1151.0  
1472 9.3 61653.4 -1136.4  
1473 9.6 61654.3 -1131.4  
1474 9.4 61702.1 -1139.9  
1475 9.4 61707.0 -1136.3  
1476 10. 61707.9 -1127.0  
1477 10. 61717.1 -1141.0  
1478 6.0 61724.1 -1127.0  
1479 9.7 61759.5 -1129.3  
1480 9.8 61826.5 -1110.7  
  
1481 9.0 61832.6 -1130.2  
1482 9.4 61837.2 -1134.6  
1483 9.8 61848.4 -1112.7  
1484 9.0 61857.4 -1115.1  
1485 9.2 61857.9 -1156.7  
1486 9.0 61902.1 -1110.2  
1487 9.4 61914.1 -1123.5  
1488 8.5 61921.3 -1151.6  
1489 9.4 61937.3 -1112.1  
1490 9.1 61953.2 -1148.1

1491 9.5 61954.0 -1136.5  
1492 8.8 62004.7 -1107.7  
1493 8.8 62029.8 -1145.2  
1494 9.8 62110.5 -1104.0  
1495 9.0 62124.2 -1116.1  
1496 9.4 62124.6 -1122.2  
1497 10. 62145.5 -1147.2  
1498 8.9 62149.3 -1151.2  
1499 8.6 62200.8 -1132.8  
1500 7.8 62208.7 -1110.7  
  
1501 9.8 62222.9 -1153.3  
1502 9.4 62224.4 -1135.1  
1503 9.4 62226.8 -1108.8  
1504 10. 62229.4 -1125.5  
1505 9.0 62233.4 -1142.3  
1506 8.0 62241.1 -1122.4  
1507 9.8 62251.5 -1148.5  
1508 9.8 62309.8 -1131.6  
1509 9.8 62309.9 -1153.9  
1510 9.0 62317.0 -1137.6  
  
1511 9.4 62320.7 -1102.4  
1512 9.0 62322.9 -1143.8  
1513 10. 62323.7 -1126.4  
1514 7.5 62348.5 -1158.9  
1515 9.3 62410.3 -1112.1  
1516 10. 62411.5 -1152.5  
1517 10. 62443.6 -1159.6  
1518 9.5 62451.4 -1145.5  
1519 9.6 62452.9 -1144.9  
1520 7.0 62559.3 -1103.8  
  
1521 9.1 62600.2 -1125.9  
1522 10. 62603.0 -1138.1  
1523 9.6 62605.3 -1151.5  
1524 8.5 62606.5 -1157.8  
1525 9.4 62606.8 -1120.9  
1526 9.3 62623.7 -1148.8  
1527 10. 62635.7 -1106.8  
1528 10. 62642.7 -1141.3  
1529 8.8 62655.4 -1145.3  
1530 9.4 62657.5 -1158.9  
  
1531 9.1 62659.5 -1137.6  
1532 9.4 62710.2 -1126.2  
1533 8.3 62716.6 -1121.7  
1534 10. 62722.3 -1140.6  
1535 9.6 62734.2 -1107.6  
1536 8.1 62744.7 -1106.7  
1537 10. 62756.0 -1119.7  
1538 10. 62807.4 -1134.4  
1539 9.1 62812.7 -1125.0  
1540 9.8 62814.3 -1140.3  
  
1541 10. 62820.7 -1106.0  
1542 10. 62822.5 -1110.0  
1543 9.2 62830.9 -1106.7  
1544 10. 62832.4 -1151.9  
1545 9.5 62833.5 -1156.1  
1546 8.8 62836.4 -1134.0  
1547 9.0 62841.4 -1153.0  
1548 9.1 62852.0 -1142.4  
1549 10. 62857.1 -1130.5  
1550 7.5 62906.9 -1115.8  
  
1551 9.2 62919.4 -1142.0  
1552 9.5 62932.7 -1126.6  
1553 8.9 62958.4 -1127.8  
1554 8.2 63004.0 -1118.2  
1555 9.8 63017.6 -1112.6  
1556 10. 63019.2 -1112.4  
1557 9.5 63021.1 -1131.7  
1558 9.1 63024.3 -1114.0  
1559 9.7 63040.8 -1152.8  
1560 10. 63043.0 -1102.5  
  
1561 8.7 63045.0 -1120.2  
1562 9.2 63047.3 -1114.0  
1563 9.8 63047.7 -1153.1  
1564 8.5 63051.3 -1133.5  
1565 9.8 63102.9 -1133.5  
1566 10. 63118.5 -1107.1  
1567 10. 63120.0 -1144.7  
1568 9.0 63132.2 -1125.2  
1569 9.4 63141.0 -1139.3  
1570 8.5 63215.2 -1108.2  
  
1571 9.9 63217.0 -1134.9  
1572 9.8 63225.3 -1101.9  
1573 9.4 63225.7 -1112.1  
1574 10. 63229.8 -1135.1  
1575 9.1 63230.5 -1156.7  
1576 8.0 63242.6 -1154.7  
1577 8.2 63246.5 -1134.5  
1578 9.0 63307.4 -1112.0  
1579 9.9 63315.4 -1153.6  
1580 9.4 63316.3 -1148.5

-11 1580 6h33m



-11 1581 6h33m

1581 9.3 63319.2 -1127.0  
1582 10. 63327.0 -1116.9  
1583 9.0 63335.0 -1158.6  
1584 10. 63401.0 -1138.5  
1585 9.5 63412.5 -1143.0  
1586 9.2 63415.8 -1112.1  
1587 9.8 63428.5 -1149.3  
1588 9.0 63431.2 -1128.0  
1589 10. 63435.6 -1147.8  
1590 8.3 63438.3 -1110.5  
  
1591 9.8 63454.2 -1108.1  
1592 10. 63510.1 -1122.6  
1593 9.8 63512.7 -1112.0  
1594 9.0 63516.7 -1125.7  
1595 9.4 63522.3 -1113.8  
1596 9.5 63528.9 -1147.0  
1597 9.8 63542.2 -1108.0  
1598 9.4 63545.6 -1140.4  
1599 9.9 63554.5 -1158.8  
1600 9.7 63607.8 -1111.4  
  
1601 9.3 63610.3 -1117.9  
1602 8.0 63611.9 -1137.3  
1603 9.8 63622.3 -1126.4  
1604 9.1 63624.2 -1154.3  
1605 9.5 63626.6 -1118.0  
1606 9.5 63626.7 -1116.1  
1607 9.4 63651.4 -1122.2  
1608 9.4 63657.3 -1154.0  
1609 10. 63702.6 -1150.0  
1610 9.4 63705.9 -1116.3  
  
1611 9.5 63712.4 -1141.8  
1612 9.3 63718.8 -1111.0  
1613 9.3 63723.7 -1144.3  
1614 10. 63755.4 -1152.4  
1615 9.7 63758.2 -1147.4  
1616 9.7 63803.0 -1138.3  
1617 9.1 63806.1 -1139.6  
1618 8.8 63819.0 -1116.0  
1619 9.5 63821.9 -1122.9  
1620 9.6 63824.5 -1138.5  
  
1621 9.2 63827.3 -1100.0  
1622 9.7 63859.1 -1104.0  
1623 9.4 63901.6 -1151.3  
1624 9.4 63910.0 -1116.5  
1625 10. 63918.6 -1144.7  
1626 10. 63920.0 -1159.0  
1627 9.7 63937.0 -1139.5  
1628 9.5 63938.8 -1143.9  
1629 9.4 63945.3 -1131.6  
1630 9.3 63948.3 -1139.9  
  
1631 9.5 64010.4 -1155.3  
1632 9.5 64014.9 -1152.7  
1633 9.4 64019.1 -1141.5  
1634 9.8 64031.0 -1146.3  
1635 9.8 64046.9 -1119.4  
1636 8.5 64102.0 -1124.1  
1637 9.0 64104.2 -1134.3  
1638 9.9 64117.5 -1142.7  
1639 8.8 64119.8 -1115.5  
1640 9.5 64124.1 -1128.4  
  
1641 8.9 64127.4 -1151.7  
1642 8.8 64132.8 -1106.9  
1643 9.7 64134.6 -1116.5  
1644 8.6 64147.0 -1141.3  
1645 9.8 64153.6 -1122.3  
1646 9.6 64158.9 -1103.3  
1647 9.6 64207.6 -1141.5  
1648 9.7 64221.4 -1111.5  
1649 9.8 64232.5 -1111.5  
1650 8.9 64237.6 -1101.9  
  
1651 9.6 64238.6 -1107.1  
1652 9.6 64248.3 -1149.1  
1653 9.5 64254.5 -1115.5  
1654 9.2 64202.7 -1120.5  
1655 9.0 64307.0 -1132.5  
1656 9.0 64318.0 -1112.4  
1657 9.3 64323.8 -1124.0  
1658 9.8 64355.7 -1126.6  
1659 9.5 64357.2 -1146.1  
1660 9.1 64406.3 -1137.6  
  
1661 9.0 64426.0 -1115.9  
1662 9.0 64439.0 -1114.3  
1663 9.6 64443.1 -1132.7  
1664 9.4 64449.7 -1102.3  
1665 10. 64506.5 -1114.4  
1666 10. 64507.1 -1109.7  
1667 8.0 64514.7 -1102.0  
1668 9.3 64520.0 -1128.8  
1669 10. 64525.9 -1100.2  
1670 9.0 64531.2 -1122.2

1671 9.4 64534.7 -1136.6  
1672 9.4 64607.0 -1129.4  
1673 7.5 64609.4 -1158.6  
1674 9.0 64615.6 -1133.0  
1675 8.3 64629.4 -1102.9  
1676 9.4 64646.3 -1143.2  
1677 9.0 64657.5 -1130.1  
1678 7.8 64659.7 -1105.1  
1679 9.3 64716.0 -1157.3  
1680 9.8 64728.5 -1140.3  
  
1681 4.0 64728.8 -1151.1  
1682 9.5 64730.0 -1135.0  
1683 9.9 64730.2 -1131.2  
1684 8.7 64746.4 -1112.3  
1685 9.3 64812.1 -1124.7  
1686 9.0 64813.0 -1132.1  
1687 8.9 64816.2 -1135.0  
1688 9.0 64819.0 -1144.6  
1689 9.0 64822.1 -1114.9  
1690 10. 64822.6 -1148.3  
  
1691 9.6 64826.2 -1135.2  
1692 9.6 64830.8 -1145.5  
1693 9.4 64838.1 -1117.8  
1694 10. 64840.9 -1126.3  
1695 9.2 64857.2 -1140.7  
1696 9.6 64858.0 -1137.9  
1697 9.2 64859.5 -1140.5  
1698 9.8 64907.4 -1155.2  
1699 9.2 64911.7 -1121.1  
1700 9.7 64922.6 -1144.6  
  
1701 10. 64929.4 -1143.2  
1702 9.6 64935.6 -1133.9  
1703 9.8 64941.5 -1121.1  
1704 9.5 65005.9 -1157.4  
1705 9.0 65006.0 -1111.5  
1706 9.5 65008.8 -1153.8  
1707 9.6 65021.1 -1133.6  
1708 10. 65029.5 -1130.4  
1709 10. 65038.2 -1143.5  
1710 9.5 65053.4 -1156.5  
  
1711 9.8 65106.0 -1116.2  
1712 9.3 65118.3 -1137.1  
1713 9.4 65129.2 -1120.0  
1714 8.5 65140.5 -1114.2  
1715 9.2 65155.5 -1129.9  
1716 9.3 65156.0 -1137.8  
1717 9.2 65157.4 -1146.6  
1718 9.8 65209.4 -1111.8  
1719 8.8 65223.9 -1128.4  
1720 8.7 65233.6 -1118.1  
  
1721 9.8 65240.8 -1148.0  
1722 9.4 65247.5 -1152.8  
1723 9.5 65250.8 -1143.1  
1724 9.4 65251.5 -1135.9  
1725 8.5 65253.2 -1146.1  
1726 9.5 65302.0 -1111.8  
1727 9.8 65311.4 -1124.7  
1728 9.7 65318.1 -1148.7  
1729 9.3 65325.4 -1136.1  
1730 9.2 65330.6 -1131.7  
  
1731 10. 65331.5 -1113.1  
1732 9.8 65334.5 -1150.2  
1733 9.4 65338.5 -1159.3  
1734 9.8 65345.6 -1115.8  
1735 9.2 65350.8 -1102.6  
1736 9.9 65354.2 -1119.9  
1737 9.5 65357.8 -1104.7  
1738 9.1 65415.6 -1131.2  
1739 10. 65423.3 -1136.3  
1740 9.9 65423.8 -1116.7  
  
1741 10. 65431.0 -1129.4  
1742 9.1 65433.0 -1101.5  
1743 9.8 65438.4 -1107.5  
1744 9.8 65449.0 -1129.0  
1745 9.3 65456.6 -1101.0  
1746 9.7 65458.8 -1142.1  
1747 7.2 65501.3 -1105.7  
1748 9.3 65506.9 -1144.2  
1749 9.5 65507.2 -1149.3  
1750 9.3 65512.0 -1158.4  
  
1751 9.8 65513.7 -1137.2  
1752 9.8 65526.4 -1100.1  
1753 9.8 65529.3 -1121.8  
1754 9.8 65535.8 -1129.4  
1755 8.7 65554.6 -1114.9  
1756 9.2 65603.6 -1141.7  
1757 9.4 65604.4 -1134.0  
1758 9.5 65610.4 -1146.1  
1759 9.8 65624.5 -1112.4  
1760 9.0 65655.7 -1120.0

1761 9.3 65705.5 -1122.0  
1762 9.4 65706.6 -1116.0  
1763 9.2 65707.9 -1121.7  
1764 9.7 65716.4 -1112.4  
1765 10. 65716.9 -1116.2  
1766 9.0 65727.6 -1111.3  
1767 9.7 65734.3 -1107.0  
1768 9.8 65741.8 -1147.0  
1769 9.5 65742.2 -1136.3  
1770 7.9 65751.9 -1118.6  
  
1771 9.0 65752.7 -1146.0  
1772 8.4 65753.2 -1154.6  
1773 8.8 65756.2 -1102.5  
1774 9.2 65805.2 -1142.2  
1775 9.3 65805.3 -1126.1  
1776 9.8 65812.9 -1128.8  
1777 9.4 65820.1 -1145.1  
1778 9.4 65830.1 -1103.8  
1779 10. 65831.7 -1123.9  
1780 9.8 65851.3 -1145.7  
  
1781 9.5 65851.6 -1121.2  
1782 9.8 65858.8 -1141.8  
1783 9.5 65917.0 -1117.6  
1784 9.0 65923.0 -1102.6  
1785 10. 65928.9 -1130.6  
1786 9.5 65935.6 -1137.7  
1787 9.1 65937.6 -1102.2  
1788 8.9 65943.2 -1119.1  
1789 9.7 65946.0 -1114.0  
1790 5.8 65951.8 -1104.0  
  
1791 9.1 65959.8 -1124.0  
1792 9.8 70002.9 -1139.3  
1793 8.4 70007.7 -1106.3  
1794 9.8 70015.9 -1129.0  
1795 8.3 70029.4 -1157.9  
1796 9.8 70029.4 -1113.3  
1797 8.9 70030.1 -1144.8  
1798 9.8 70039.4 -1156.5  
1799 9.4 70050.7 -1108.5  
1800 9.3 70058.7 -1134.9  
  
1801 9.1 70107.2 -1141.5  
1802 10. 70111.3 -1119.9  
1803 8.5 70112.0 -1122.1  
1804 9.4 70115.2 -1148.1  
1805 7.6 70117.1 -1141.8  
1806 9.9 70117.5 -1157.8  
1807 10. 70118.5 -1157.4  
1808 9.3 70128.4 -1103.6  
1809 9.5 70132.7 -1130.8  
1810 10. 70133.3 -1140.1  
  
1811 9.4 70133.5 -1144.1  
1812 8.5 70136.6 -1137.8  
1813 9.7 70142.6 -1155.7  
1814 9.8 70142.9 -1147.0  
1815 9.5 70201.6 -1107.7  
1816 9.1 70206.2 -1116.4  
1817 9.5 70206.5 -1100.3  
1818 10. 70248.2 -1154.5  
1819 5.3 70253.1 -1150.6  
1820 9.8 70255.9 -1150.6  
  
1821 9.8 70321.4 -1129.8  
1822 8.0 70321.6 -1134.7  
1823 9.8 70323.4 -1151.8  
1824 9.2 70334.4 -1100.9  
1825 9.4 70353.6 -1115.5  
1826 8.2 70358.7 -1120.6  
1827 9.0 70359.9 -1131.1  
1828 10. 70417.5 -1118.0  
1829 9.7 70427.7 -1116.3  
1830 7.5 70430.6 -1148.3  
  
1831 9.8 70432.4 -1108.0  
1832 9.5 70436.0 -1114.5  
1833 9.8 70501.1 -1105.8  
1834 9.7 70501.5 -1126.9  
1835 10. 70514.6 -1146.6  
1836 9.3 70524.4 -1109.2  
1837 9.1 70527.0 -1148.7  
1838 10. 70529.3 -1125.3  
1839 10. 70533.2 -1122.7  
1840 9.3 70540.5 -1132.4  
  
1841 9.0 70543.1 -1150.9  
1842 9.2 70543.9 -1156.5  
1843 10. 70547.3 -1103.1  
1844 9.7 70554.8 -1105.5  
1845 8.7 70600.2 -1150.0  
1846 9.4 70600.6 -1103.2  
1847 8.3 70602.2 -1121.5  
1848 9.4 70617.2 -1122.8  
1849 6.3 70619.4 -1100.6  
1850 9.5 70635.7 -1121.5

1851 9.5 70644.3 -1116.5  
1852 10. 70741.2 -1150.5  
1853 8.6 70743.1 -1159.0  
1854 10. 70747.9 -1129.0  
1855 9.4 70754.8 -1142.1  
1856 9.4 70801.4 -1107.6  
1857 9.5 70803.1 -1151.5  
1858 8.3 70812.6 -1137.5  
1859 10. 70823.9 -1131.3  
1860 9.7 70826.7 -1144.6  
  
1861 10. 70845.1 -1136.1  
1862 9.4 70846.7 -1137.9  
1863 8.4 70906.0 -1100.6  
1864 9.1 70919.9 -1130.1  
1865 9.5 70929.2 -1157.6  
1866 9.1 70935.1 -1150.2  
1867 8.5 70949.6 -1114.1  
1868 10. 70955.0 -1112.1  
1869 10. 70958.3 -1144.7  
1870 9.7 71006.4 -1154.8  
  
1871 9.5 71007.5 -1156.6  
1872 9.1 71014.2 -1128.0  
1873 9.7 71020.5 -1120.5  
1874 7.1 71021.0 -1146.3  
1875 9.8 71042.0 -1131.3  
1876 9.8 71045.4 -1154.5  
1877 9.5 71050.6 -1152.2  
1878 9.6 71054.1 -1122.0  
1879 8.9 71102.6 -1142.1  
1880 9.5 71107.6 -1122.9  
  
1881 8.5 71121.3 -1108.3  
1882 9.4 71124.7 -1156.5  
1883 9.5 71126.9 -1142.3  
1884 9.7 71217.1 -1153.0  
1885 9.0 71226.4 -1111.8  
1886 10. 71243.6 -1119.2  
1887 9.5 71245.4 -1121.7  
1888 9.8 71253.3 -1146.1  
1889 9.0 71254.9 -1157.0  
1890 9.8 71257.9 -1112.9  
  
1891 9.0 71308.4 -1138.6  
1892 9.8 71312.4 -1130.9  
1893 9.4 71316.3 -1128.6  
1894 10. 71345.4 -1141.2  
1895 9.5 71346.4 -1143.0  
1896 9.9 71356.1 -1113.7  
1897 9.8 71407.1 -1138.8  
1898 9.4 71411.8 -1108.4  
1899 9.2 71411.9 -1124.7  
1900 9.6 71413.6 -1122.9  
  
1901 9.2 71414.9 -1119.0  
1902 9.4 71425.1 -1152.6  
1903 10. 71424.5 -1117.4  
1904 10. 71429.3 -1105.7  
1905 9.5 71433.9 -1130.7  
1906 9.3 71436.4 -1111.8  
1907 8.7 71452.0 -1133.7  
1908 9.5 71457.6 -1137.7  
1909 9.1 71517.9 -1111.8  
1910 9.5 71530.7 -1123.2  
  
1911 8.6 71534.3 -1143.6  
1912 9.5 71540.6 -1157.6  
1913 9.3 71605.3 -1149.8  
1914 9.8 71605.9 -1110.0  
1915 9.5 71610.7 -1134.9  
1916 9.8 71613.4 -1135.4  
1917 9.4 71622.5 -1124.7  
1918 9.3 71651.1 -1137.7  
1919 9.8 71710.1 -1151.7  
1920 10. 71715.7 -1105.0  
  
1921 9.0 71725.4 -1111.1  
1922 8.7 71726.8 -1108.0  
1923 9.2 71732.2 -1101.2  
1924 8.2 71742.6 -1155.5  
1925 9.0 71750.6 -1106.8  
1926 9.9 71754.0 -1159.5  
1927 9.7 71758.1 -1125.3  
1928 9.5 71825.9 -1110.0  
1929 9.8 71831.7 -1124.6  
1930 8.7 71834.0 -1101.1  
  
1931 9.5 71843.1 -1112.5  
1932 9.5 71847.4 -1110.5  
1933 9.5 71856.7 -1124.6  
1934 8.4 71910.1 -1143.1  
1935 9.7 71911.9 -1139.3  
1936 9.8 71919.4 -1146.9  
1937 8.5 71923.4 -1147.2  
1938 9.2 71951.4 -1117.9  
1939 9.9 71959.3 -1153.8  
1940 8.3 72011.2 -1104.7

-11 1940 7h20m



-11 1941 7h20m

1941 8.9 72015.8 -1125.9  
1942 8.3 72017.6 -1155.7  
1943 9.8 72029.5 -1129.5  
1944 9.8 72030.3 -1131.6  
1945 8.3 72031.6 -1112.4  
1946 9.2 72034.8 -1145.5  
1947 9.3 72049.4 -1104.0  
1948 9.5 72055.0 -1130.7  
1949 9.8 72057.2 -1122.4  
1950 8.7 72103.1 -1126.2

1951 6.3 72103.5 -1115.9  
1952 9.1 72103.9 -1143.6  
1953 9.3 72115.0 -1138.1  
1954 9.6 72137.3 -1118.5  
1955 9.9 72139.9 -1101.8  
1956 9.8 72145.7 -1159.0  
1957 10. 72150.6 -1124.3  
1958 10. 72154.9 -1122.5  
1959 10. 72155.0 -1134.6  
1960 9.1 72157.1 -1152.3

1961 9.6 72157.9 -1144.5  
1962 9.0 72213.7 -1148.0  
1963 9.7 72218.1 -1156.3  
1964 9.0 72228.7 -1146.0  
1965 9.4 72235.0 -1121.9  
1966 9.3 72246.4 -1132.2  
1967 8.9 72249.0 -1103.6  
1968 8.9 72258.8 -1105.4  
1969 9.5 72303.1 -1148.0  
1970 9.6 72304.4 -1159.8

1971 9.5 72316.9 -1130.6  
1972 9.4 72317.4 -1144.8  
1973 9.4 72337.1 -1159.8  
1974 9.9 72343.6 -1144.8  
1975 10. 72343.8 -1143.5  
1976 9.4 72347.2 -1115.5  
1977 10. 72351.9 -1159.3  
1978 9.5 72403.6 -1148.7  
1979 9.8 72413.0 -1122.4  
1980 8.7 72438.7 -1156.0

1981 9.8 72445.2 -1117.0  
1982 9.4 72448.1 -1119.1  
1983 10. 72504.5 -1151.9  
1984 9.3 72507.6 -1118.1  
1985 9.0 72519.8 -1114.0  
1986 9.0 72524.8 -1110.3  
1987 8.6 72534.7 -1114.8  
1988 9.1 72535.3 -1134.7  
1989 10. 72547.3 -1103.8  
1990 9.0 72547.9 -1108.1

1991 10. 72605.2 -1157.4  
1992 9.0 72605.4 -1144.3  
1993 10. 72613.8 -1110.7  
1994 8.8 72622.1 -1118.3  
1995 10. 72635.7 -1145.6  
1996 9.4 72643.8 -1102.9  
1997 8.9 72646.0 -1158.3  
1998 9.4 72655.5 -1153.4  
1999 9.8 72703.6 -1104.9  
2000 9.3 72721.3 -1143.9

2001 9.0 72735.8 -1114.5  
2002 9.8 72740.9 -1145.4  
2003 8.9 72744.9 -1156.7  
2004 9.4 72755.0 -1149.6  
2005 9.5 72758.7 -1123.1  
2006 10. 72802.7 -1137.9  
2007 9.5 72812.2 -1113.5  
2008 9.3 72820.0 -1153.8  
2009 9.7 72820.5 -1150.1  
2010 9.5 72839.0 -1157.4

2011 9.5 72850.1 -1143.0  
2012 9.0 72858.6 -1108.3  
2013 9.4 72858.7 -1153.0  
2014 10. 72921.4 -1104.8  
2015 9.4 72924.6 -1145.8  
2016 8.9 72927.8 -1151.4  
2017 9.0 72932.4 -1127.8  
2018 10. 72939.7 -1112.5  
2019 10. 72940.1 -1158.4  
2020 9.0 73004.6 -1113.7

2021 9.4 73006.7 -1110.6  
2022 9.0 73012.0 -1104.3  
2023 9.5 73012.7 -1137.4  
2024 9.3 73023.5 -1124.9  
2025 9.0 73023.8 -1108.8  
2026 9.6 73030.3 -1146.2  
2027 9.5 73031.1 -1150.0  
2028 9.5 73035.3 -1146.7  
2029 9.7 73110.8 -1110.5  
2030 9.9 73122.1 -1150.8

2031 9.2 73123.2 -1151.7  
2032 9.5 73128.7 -1113.0  
2033 9.1 73147.7 -1155.5  
2034 8.3 73149.7 -1155.9  
2035 9.7 73158.9 -1104.0  
2036 9.9 73211.0 -1102.8  
2037 8.5 73217.3 -1130.4  
2038 9.7 73218.3 -1114.9  
2039 7.5 73237.7 -1113.8  
2040 9.8 73244.8 -1146.8

2041 8.7 73246.9 -1106.0  
2042 9.8 73249.5 -1121.9  
2043 9.6 73255.3 -1156.2  
2044 9.8 73255.4 -1128.3  
2045 9.2 73307.0 -1135.7  
2046 9.5 73308.4 -1105.6  
2047 9.1 73309.2 -1151.9  
2048 10. 73315.1 -1101.4  
2049 9.1 73317.3 -1135.7  
2050 9.0 73321.3 -1131.2

2051 9.4 73322.0 -1131.7  
2052 8.2 73325.0 -1145.0  
2053 10. 73332.4 -1150.5  
2054 6.9 73332.5 -1125.4  
2055 10. 73334.2 -1143.5  
2056 9.0 73337.8 -1132.6  
2057 9.8 73355.0 -1105.3  
2058 9.0 73416.2 -1111.6  
2059 9.5 73417.5 -1121.6  
2060 9.5 73422.4 -1154.7

2061 10. 73423.8 -1158.6  
2062 9.1 73432.5 -1155.8  
2063 8.9 73448.4 -1101.5  
2064 9.8 73451.7 -1135.3  
2065 9.4 73456.3 -1146.3  
2066 8.0 73513.7 -1130.9  
2067 8.8 73522.8 -1100.7  
2068 9.8 73529.5 -1157.0  
2069 9.6 73540.4 -1101.9  
2070 9.7 73541.1 -1118.4

2071 9.0 73546.5 -1151.4  
2072 9.5 73557.9 -1127.8  
2073 9.1 73604.9 -1143.9  
2074 9.9 73614.3 -1105.0  
2075 9.2 73637.4 -1155.8  
2076 9.7 73639.3 -1142.6  
2077 9.8 73646.7 -1112.5  
2078 9.5 73651.2 -1114.1  
2079 9.5 73659.5 -1136.3  
2080 9.5 73706.9 -1100.7

2081 9.5 73708.6 -1131.8  
2082 9.8 73714.7 -1121.3  
2083 9.8 73731.6 -1110.5  
2084 9.3 73735.6 -1112.7  
2085 9.8 73742.6 -1115.2  
2086 8.7 73745.5 -1158.2  
2087 9.8 73803.0 -1156.4  
2088 8.2 73814.2 -1125.0  
2089 9.0 73820.1 -1155.5  
2090 9.8 73837.3 -1147.2

2091 9.1 73841.2 -1136.4  
2092 8.9 73857.7 -1103.6  
2093 9.8 73911.0 -1159.3  
2094 9.5 73917.9 -1144.4  
2095 9.6 73937.8 -1103.5  
2096 9.6 73940.9 -1156.8  
2097 7.5 73945.5 -1119.4  
2098 9.5 73951.9 -1142.2  
2099 9.1 73952.5 -1123.8  
2100 8.7 74029.9 -1150.8

2101 9.4 74036.4 -1123.4  
2102 9.3 74044.5 -1104.0  
2103 9.8 74058.7 -1110.6  
2104 9.0 74101.1 -1148.7  
2105 9.2 74108.3 -1137.2  
2106 6.0 74109.2 -1150.2  
2107 9.1 74110.5 -1158.2  
2108 9.5 74119.5 -1133.9  
2109 10. 74137.8 -1113.1  
2110 9.8 74138.9 -1100.2

2111 8.3 74142.4 -1151.4  
2112 9.6 74213.6 -1114.2  
2113 9.6 74227.8 -1120.5  
2114 8.0 74229.1 -1104.1  
2115 10. 74246.2 -1157.1  
2116 9.4 74246.7 -1146.2  
2117 9.0 74258.7 -1133.8  
2118 9.8 74314.2 -1145.2  
2119 9.0 74322.9 -1159.7  
2120 10. 74324.8 -1159.6

2121 9.0 74325.6 -1112.8  
2122 9.8 74338.7 -1128.0  
2123 10. 74348.2 -1105.0  
2124 9.0 74410.9 -1105.0  
2125 10. 74442.8 -1154.0  
2126 9.5 74500.7 -1132.0  
2127 9.0 74504.6 -1138.2  
2128 9.6 74505.8 -1127.0  
2129 9.0 74517.2 -1128.6  
2130 9.5 74519.7 -1137.7

2131 9.4 74526.7 -1108.6  
2132 9.3 74527.9 -1159.8  
2133 8.5 74530.5 -1117.3  
2134 9.5 74532.7 -1125.3  
2135 9.8 74535.1 -1121.2  
2136 8.9 74544.7 -1133.1  
2137 9.4 74554.4 -1153.2  
2138 9.8 74601.5 -1117.3  
2139 9.8 74606.4 -1102.4  
2140 9.8 74610.2 -1108.4

2141 8.2 74614.6 -1115.0  
2142 10. 74619.0 -1141.0  
2143 9.0 74622.5 -1143.5  
2144 9.8 74632.2 -1108.2  
2145 9.4 74634.4 -1154.8  
2146 9.5 74635.5 -1131.2  
2147 9.5 74636.6 -1124.7  
2148 9.4 74640.7 -1109.3  
2149 9.8 74648.5 -1150.5  
2150 8.3 74652.3 -1153.4

2151 9.5 74656.9 -1121.6  
2152 8.9 74657.8 -1155.0  
2153 9.5 74704.8 -1154.9  
2154 9.2 74721.0 -1116.4  
2155 9.3 74722.4 -1132.9  
2156 9.4 74735.5 -1141.5  
2157 9.1 74754.4 -1129.1  
2158 9.2 74808.8 -1153.3  
2159 9.2 74810.0 -1154.4  
2160 9.7 74812.3 -1125.6

2161 9.7 74815.3 -1136.7  
2162 9.2 74828.8 -1148.4  
2163 8.5 74830.1 -1123.7  
2164 9.5 74831.1 -1109.7  
2165 9.3 74834.1 -1142.4  
2166 9.8 74845.7 -1151.0  
2167 9.7 74855.0 -1103.2  
2168 9.9 74902.3 -1151.1  
2169 9.0 74907.1 -1103.3  
2170 8.9 74915.2 -1133.6

2171 9.1 74933.9 -1119.1  
2172 9.8 74946.1 -1145.0  
2173 9.7 74951.5 -1147.6  
2174 9.5 74958.6 -1101.0  
2175 9.5 75010.1 -1150.0  
2176 9.2 75017.6 -1103.4  
2177 9.0 75024.0 -1135.8  
2178 9.4 75034.0 -1115.0  
2179 9.0 75042.2 -1141.5  
2180 9.4 75059.2 -1124.7

2181 9.2 75101.1 -1130.2  
2182 8.5 75106.7 -1128.0  
2183 9.8 75107.5 -1142.9  
2184 10. 75123.4 -1157.6  
2185 10. 75141.0 -1152.2  
2186 9.4 75150.9 -1140.4  
2187 8.5 75207.8 -1107.6  
2188 8.8 75217.2 -1124.8  
2189 9.0 75223.2 -1142.4  
2190 9.7 75228.3 -1148.3

2191 8.9 75229.3 -1156.5  
2192 9.4 75253.4 -1110.4  
2193 9.3 75300.9 -1102.0  
2194 10. 75317.8 -1143.3  
2195 9.2 75326.0 -1102.4  
2196 9.0 75329.2 -1111.0  
2197 9.3 75337.5 -1153.7  
2198 9.3 75359.8 -1103.2  
2199 9.5 75414.3 -1105.8  
2200 9.8 75429.9 -1150.2

2201 9.7 75431.6 -1144.2  
2202 9.3 75443.3 -1133.3  
2203 9.0 75445.0 -1120.0  
2204 9.4 75447.5 -1149.3  
2205 9.5 75452.1 -1123.9  
2206 9.6 75514.9 -1100.6  
2207 8.5 75525.0 -1153.5  
2208 8.7 75541.2 -1134.6  
2209 8.5 75546.0 -1157.6  
2210 9.5 75546.8 -1146.9

-11 2300 8h09m

2211 9.4 75624.3 -1127.4  
2212 9.1 75631.6 -1113.5  
2213 9.6 75634.6 -1115.0  
2214 10. 75639.7 -1135.5  
2215 9.5 75642.1 -1146.3  
2216 9.3 75646.6 -1114.8  
2217 9.0 75648.4 -1140.0  
2218 9.3 75652.0 -1153.8  
2219 9.5 75713.5 -1149.4  
2220 9.7 75722.4 -1102.7

2221 9.4 75722.5 -1118.9  
2222 9.0 75722.6 -1126.9  
2223 9.3 75725.5 -1119.3  
2224 9.1 75734.2 -1107.5  
2225 9.4 75745.6 -1142.4  
2226 8.5 75753.7 -1137.1  
2227 10. 75836.9 -1140.1  
2228 9.8 75837.6 -1113.7  
2229 9.2 75841.0 -1104.7  
2230 9.6 75845.8 -1148.4

2231 10. 75849.7 -1153.1  
2232 10. 75851.5 -1157.5  
2233 9.3 75856.3 -1147.7  
2234 8.9 75908.1 -1144.7  
2235 10. 75925.0 -1149.9  
2236 8.5 75926.4 -1125.2  
2237 8.8 75937.7 -1109.9  
2238 9.5 75949.3 -1147.4  
2239 9.0 75959.9 -1153.5  
2240 9.5 80026.3 -1129.2

2241 9.2 80027.9 -1101.8  
2242 9.5 80031.0 -1120.8  
2243 8.8 80034.9 -1125.5  
2244 9.1 80042.4 -1147.7  
2245 8.3 80046.7 -1114.7  
2246 9.3 80051.3 -1156.9  
2247 9.6 80108.6 -1148.8  
2248 9.4 80112.0 -1157.7  
2249 9.8 80112.6 -1135.4  
2250 9.0 80129.5 -1112.3

2251 9.5 80133.5 -1116.0  
2252 10. 80137.0 -1141.2  
2253 9.4 80201.9 -1113.2  
2254 9.5 80218.4 -1106.8  
2255 8.5 80220.6 -1109.5  
2256 9.1 80229.4 -1146.8  
2257 9.0 80230.1 -1120.7  
2258 9.3 80233.9 -1139.3  
2259 9.5 80238.8 -1158.9  
2260 9.5 80242.7 -1111.4

2261 9.3 80243.1 -1134.2  
2262 8.5 80243.8 -1100.5  
2263 9.2 80254.5 -1105.3  
2264 8.9 80309.8 -1148.9  
2265 9.4 80337.3 -1102.5  
2266 9.0 80341.1 -1107.4  
2267 9.0 80410.2 -1129.8  
2268 8.3 80416.4 -1120.4  
2269 9.5 80421.3 -1121.3  
2270 9.3 80430.4 -1144.7

2271 10. 80432.5 -1115.0  
2272 9.3 80439.0 -1146.6  
2273 8.5 80446.7 -1155.3  
2274 9.1 80456.4 -1118.6  
2275 8.4 80501.8 -1102.5  
2276 9.0 80514.7 -1126.4  
2277 9.8 80535.6 -1129.7  
2278 9.2 80558.4 -1153.5  
2279 9.4 80559.1 -1150.6  
2280 9.4 80634.5 -1150.3

2281 9.5 80645.7 -1107.5  
2282 9.1 80710.3 -1128.1  
2283 8.6 80712.9 -1119.6  
2284 8.4 80740.8 -1105.6  
2285 9.5 80750.6 -1133.0  
2286 9.6 80758.0 -1103.5  
2287 9.5 80804.2 -1109.4  
2288 9.4 80805.7 -1113.7  
2289 9.0 80818.7 -1130.0  
2290 9.8 80827.0 -1100.1

2291 9.3 80837.8 -1102.4  
2292 8.8 80845.7 -1158.6  
2293 8.9 80850.8 -1148.2  
2294 9.8 80857.8 -1103.7  
2295 9.8 80918.3 -1130.8  
2296 9.3 80924.2 -1119.4  
2297 8.5 80928.2 -1107.3  
2298 9.8 80930.4 -1122.2  
2299 9.1 80932.9 -1122.8  
2300 9.1 80936.2 -1119.0



-11 2301 8h09m

2301 9.4 80938.9 -1124.1  
2302 9.8 80959.8 -1139.3  
2303 9.8 81003.2 -1151.3  
2304 9.3 81008.5 -1112.2  
2305 8.5 81030.9 -1119.2  
2306 9.8 81041.3 -1139.9  
2307 9.1 81051.9 -1155.0  
2308 9.5 81119.8 -1124.4  
2309 9.0 81130.1 -1137.1  
2310 9.3 81148.6 -1134.8

2311 9.4 81156.2 -1142.0  
2312 8.8 81216.5 -1105.8  
2313 8.5 81220.0 -1104.2  
2314 8.8 81224.0 -1111.7  
2315 8.0 81237.3 -1126.2  
2316 9.0 81239.8 -1141.1  
2317 8.5 81248.6 -1109.2  
2318 9.1 81266.5 -1140.6  
2319 9.5 81336.7 -1127.5  
2320 9.8 81346.0 -1110.0

2321 9.2 81352.7 -1158.7  
2322 9.4 81400.7 -1157.3  
2323 9.5 81402.4 -1111.6  
2324 9.5 81412.6 -1157.0  
2325 9.8 81415.8 -1148.5  
2326 9.5 81438.8 -1119.9  
2327 9.4 81454.3 -1123.0  
2328 9.2 81457.9 -1147.8  
2329 9.3 81511.4 -1102.6  
2330 9.1 81540.0 -1147.6

2331 9.1 81551.0 -1137.0  
2332 8.4 81600.3 -1155.7  
2333 8.7 81606.7 -1102.4  
2334 10.1 81611.0 -1144.9  
2335 8.7 81612.5 -1135.7  
2336 9.5 81615.2 -1126.1  
2337 9.3 81621.7 -1157.2  
2338 9.1 81626.8 -1112.5  
2339 9.0 81641.1 -1154.6  
2340 9.8 81654.2 -1116.6

2341 9.6 81705.3 -1155.3  
2342 9.6 81709.4 -1100.5  
2343 9.7 81731.6 -1102.2  
2344 8.9 81740.0 -1102.7  
2345 7.5 81746.2 -1103.1  
2346 9.5 81754.9 -1136.5  
2347 9.1 81802.7 -1151.7  
2348 9.5 81826.3 -1150.6  
2349 9.8 81826.6 -1125.3  
2350 10.1 81826.9 -1102.5

2351 9.5 81838.7 -1125.3  
2352 8.3 81848.6 -1157.5  
2353 9.5 81858.0 -1157.4  
2354 9.8 81904.4 -1102.6  
2355 8.3 81912.1 -1130.6  
2356 9.8 81916.9 -1103.7  
2357 9.7 81918.5 -1140.5  
2358 8.0 81946.8 -1117.9  
2359 9.3 81954.7 -1157.8  
2360 9.3 81955.7 -1156.9

2361 8.3 81958.3 -1146.7  
2362 9.2 82011.8 -1122.5  
2363 9.8 82052.1 -1126.4  
2364 9.2 82104.3 -1159.0  
2365 9.7 82128.9 -1148.9  
2366 9.5 82137.6 -1123.7  
2367 9.3 82227.3 -1133.0  
2368 9.0 82228.5 -1136.5  
2369 9.2 82307.3 -1148.8  
2370 9.0 82336.2 -1121.6

2371 9.2 82345.7 -1140.3  
2372 7.7 82352.8 -1119.0  
2373 9.3 82406.8 -1157.7  
2374 9.9 82421.5 -1149.8  
2375 9.5 82428.5 -1141.7  
2376 9.2 82435.3 -1159.6  
2377 9.6 82441.4 -1141.0  
2378 9.5 82505.4 -1155.6  
2379 9.5 82525.5 -1101.4  
2380 9.1 82528.3 -1144.9

2381 9.4 82548.8 -1140.7  
2382 9.0 82604.5 -1102.6  
2383 9.8 82626.2 -1107.4  
2384 9.3 82631.5 -1115.4  
2385 9.2 82651.1 -1154.2  
2386 9.8 82655.7 -1127.9  
2387 10.1 82656.4 -1131.0  
2388 8.5 82701.7 -1143.0  
2389 9.5 82712.5 -1115.5  
2390 8.2 82722.6 -1151.2

2391 9.4 82731.4 -1139.0  
2392 9.8 82743.2 -1105.1  
2393 9.4 82745.5 -1137.2  
2394 9.8 82756.0 -1110.0  
2395 9.5 82756.6 -1129.5  
2396 9.1 82756.6 -1121.6  
2397 10.1 82757.5 -1100.9  
2398 8.8 82811.0 -1113.0  
2399 8.7 82815.6 -1133.6  
2400 9.4 82841.7 -1158.5

2401 9.8 82858.2 -1125.2  
2402 9.2 82906.1 -1152.4  
2403 8.5 82907.3 -1106.5  
2404 9.8 82914.2 -1153.4  
2405 9.6 82922.5 -1140.1  
2406 9.7 82924.7 -1153.8  
2407 8.8 82925.4 -1155.8  
2408 9.8 82957.3 -1123.7  
2409 9.3 83038.5 -1113.7  
2410 9.3 83045.7 -1158.9

2411 7.0 83106.5 -1114.6  
2412 9.4 83143.4 -1111.4  
2413 8.8 83152.6 -1107.1  
2414 9.6 83159.6 -1129.4  
2415 8.2 83207.4 -1136.5  
2416 9.1 83208.7 -1159.8  
2417 9.5 83212.6 -1145.5  
2418 9.5 83234.9 -1133.8  
2419 9.2 83301.9 -1120.9  
2420 5.7 83309.4 -1157.9

2421 9.8 83314.0 -1119.0  
2422 9.5 83320.2 -1102.6  
2423 9.5 83331.3 -1153.0  
2424 9.5 83347.6 -1124.4  
2425 7.8 83347.9 -1139.7  
2426 7.8 83349.2 -1124.4  
2427 9.2 83341.1 -1151.3  
2428 9.6 83454.2 -1102.8  
2429 9.1 83503.8 -1159.1  
2430 9.6 83504.3 -1159.8

2431 9.5 83509.6 -1137.1  
2432 6.8 83515.4 -1127.1  
2433 9.8 83525.2 -1135.8  
2434 9.8 83547.0 -1122.4  
2435 9.9 83547.8 -1144.9  
2436 9.6 83559.5 -1146.5  
2437 7.8 83614.7 -1154.0  
2438 9.4 83631.6 -1152.2  
2439 9.4 83642.6 -1150.8  
2440 9.5 83702.3 -1102.0

2441 9.2 83704.2 -1137.0  
2442 9.3 83704.5 -1139.4  
2443 9.5 83721.8 -1130.0  
2444 8.8 83723.2 -1155.2  
2445 9.9 83757.2 -1107.0  
2446 9.8 83804.2 -1156.8  
2447 9.5 83804.6 -1151.9  
2448 10.1 83809.5 -1116.5  
2449 9.5 83818.1 -1112.7  
2450 9.8 83851.6 -1103.7

2451 9.5 83905.6 -1153.3  
2452 8.8 83906.2 -1100.0  
2453 9.5 83933.7 -1152.8  
2454 9.5 83940.2 -1100.5  
2455 9.6 83953.5 -1149.2  
2456 10.1 84003.6 -1135.8  
2457 9.7 84011.2 -1159.5  
2458 9.1 84017.2 -1101.2  
2459 8.7 84026.3 -1143.0  
2460 9.5 84038.6 -1157.3

2461 10.1 84040.4 -1144.8  
2462 9.7 84049.9 -1149.6  
2463 9.5 84100.0 -1144.0  
2464 9.4 84102.1 -1114.0  
2465 9.5 84103.4 -1153.5  
2466 9.8 84204.3 -1122.9  
2467 9.3 84225.4 -1158.5  
2468 8.2 84248.1 -1155.2  
2469 9.0 84259.3 -1133.0  
2470 9.4 84303.2 -1138.5

2471 9.6 84303.9 -1139.4  
2472 10.1 84344.3 -1143.6  
2473 9.1 84346.9 -1147.8  
2474 9.8 84355.2 -1126.2  
2475 9.7 84356.1 -1160.9  
2476 9.3 84418.8 -1146.4  
2477 9.3 84420.9 -1158.4  
2478 9.8 84423.2 -1143.4  
2479 9.1 84441.8 -1141.3  
2480 9.0 84445.7 -1122.8

2481 9.1 84459.1 -1156.5  
2482 9.2 84534.3 -1124.2  
2483 8.0 84556.1 -1110.2  
2484 9.8 84607.6 -1131.9  
2485 9.8 84616.7 -1108.7  
2486 9.5 84630.0 -1153.5  
2487 9.9 84633.6 -1108.3  
2488 9.1 84797.3 -1133.0  
2489 9.8 84799.4 -1136.8  
2490 9.3 84746.1 -1159.7

2491 10.1 84759.9 -1147.3  
2492 9.7 84802.2 -1140.7  
2493 8.9 84819.9 -1104.0  
2494 9.1 84822.0 -1132.3  
2495 9.1 84838.2 -1139.1  
2496 9.8 84845.7 -1112.6  
2497 9.5 84847.3 -1153.8  
2498 9.0 84858.3 -1120.2  
2499 9.3 84921.5 -1139.4  
2500 5.1 84922.5 -1112.7

2501 10.1 84949.6 -1126.2  
2502 9.9 84954.6 -1128.7  
2503 8.9 85002.9 -1151.9  
2504 9.6 85026.4 -1118.0  
2505 9.8 85030.6 -1130.7  
2506 9.8 85047.4 -1104.5  
2507 9.8 85048.5 -1144.0  
2508 9.6 85049.5 -1147.6  
2509 9.0 85058.7 -1149.4  
2510 9.3 85141.1 -1122.9

2511 9.3 85144.1 -1107.9  
2512 9.7 85154.2 -1104.6  
2513 9.4 85209.5 -1109.7  
2514 9.5 85213.1 -1156.3  
2515 9.6 85241.0 -1109.0  
2516 10.1 85244.2 -1147.6  
2517 9.5 85244.6 -1126.0  
2518 9.9 85249.6 -1146.8  
2519 9.5 85301.8 -1114.1  
2520 8.0 85310.4 -1153.9

2521 7.8 85324.4 -1140.7  
2522 9.8 85326.1 -1106.4  
2523 7.2 85336.8 -1134.4  
2524 9.2 85342.6 -1145.0  
2525 9.6 85400.7 -1138.8  
2526 9.0 85414.8 -1154.8  
2527 9.7 85419.8 -1159.2  
2528 8.5 85434.0 -1108.4  
2529 9.2 85444.5 -1152.9  
2530 9.4 85456.3 -1156.0

2531 9.8 85502.8 -1139.4  
2532 9.5 85506.4 -1159.6  
2533 9.8 85520.3 -1113.4  
2534 9.3 85527.1 -1132.6  
2535 9.1 85535.1 -1156.9  
2536 9.4 85632.0 -1106.4  
2537 8.3 85639.2 -1159.0  
2538 9.5 85640.8 -1141.0  
2539 9.0 85641.1 -1120.9  
2540 9.4 85705.4 -1146.1

2541 9.9 85708.4 -1131.8  
2542 9.8 85751.2 -1142.7  
2543 8.2 85830.9 -1107.2  
2544 9.2 85811.8 -1105.8  
2545 9.2 85832.1 -1110.2  
2546 9.5 85845.9 -1127.3  
2547 8.9 85902.8 -1107.7  
2548 9.1 85940.2 -1116.0  
2549 9.8 85953.9 -1140.2  
2550 10.1 90013.7 -1155.4

2551 9.9 90021.3 -1103.7  
2552 9.1 90039.9 -1147.3  
2553 9.4 90040.5 -1138.4  
2554 9.5 90047.0 -1126.4  
2555 7.4 90047.1 -1156.7  
2556 9.4 90047.9 -1152.2  
2557 8.6 90057.1 -1144.5  
2558 9.8 90057.2 -1126.4  
2559 8.0 90120.0 -1131.3  
2560 8.4 90122.0 -1126.0

2561 9.2 90128.9 -1149.0  
2562 9.8 90143.3 -1112.4  
2563 9.3 90148.5 -1140.0  
2564 9.6 90206.0 -1143.0  
2565 6.1 90213.8 -1146.4  
2566 9.5 90224.6 -1121.5  
2567 9.3 90302.5 -1154.4  
2568 9.5 90309.4 -1147.3  
2569 9.8 90311.6 -1150.3  
2570 6.5 90321.6 -1101.8

2571 9.6 90323.8 -1138.9  
2572 9.6 90413.9 -1124.3  
2573 9.6 90432.7 -1151.7  
2574 9.3 90442.6 -1134.4  
2575 8.6 90452.1 -1135.2  
2576 9.8 90456.9 -1141.6  
2577 8.4 90503.7 -1114.5  
2578 9.1 90533.6 -1104.8  
2579 9.9 90536.8 -1152.2  
2580 9.1 90615.3 -1157.7

2581 10.1 90625.5 -1139.7  
2582 9.6 90628.6 -1118.0  
2583 6.7 90641.1 -1147.2  
2584 9.8 90709.7 -1149.0  
2585 9.3 90712.4 -1153.0  
2586 9.5 90745.7 -1143.9  
2587 9.8 90745.9 -1105.3  
2588 9.3 90757.7 -1131.6  
2589 9.8 90816.9 -1148.8  
2590 9.1 90838.6 -1114.9

2591 8.5 90851.6 -1102.1  
2592 9.0 90858.1 -1137.8  
2593 9.7 90862.9 -1142.1  
2594 8.6 90868.3 -1119.5  
2595 9.4 90843.2 -1149.0  
2596 9.7 90843.9 -1101.2  
2597 9.8 91009.1 -1111.9  
2598 9.1 91015.3 -1155.8  
2599 9.8 91016.7 -1111.9  
2600 9.1 91018.1 -1124.2

2601 7.7 91030.9 -1121.4  
2602 9.0 91051.2 -1110.0  
2603 10.1 91103.6 -1130.0  
2604 8.7 91107.6 -1142.9  
2605 10.1 91126.4 -1146.4  
2606 9.5 91141.9 -1137.5  
2607 9.5 91153.1 -1156.0  
2608 10.1 91244.7 -1108.3  
2609 5.5 91247.8 -1121.9  
2610 9.3 91320.3 -1124.2

2611 9.0 91354.4 -1157.5  
2612 9.5 91357.8 -1142.3  
2613 9.8 91406.2 -1139.3  
2614 9.0 91431.8 -1113.5  
2615 9.8 91452.5 -1143.7  
2616 9.5 91507.6 -1129.5  
2617 9.8 91508.4 -1112.1  
2618 9.5 91511.1 -1150.8  
2619 9.6 91514.0 -1112.5  
2620 10.1 91520.5 -1150.7

2621 8.5 91554.5 -1105.6  
2622 9.8 91605.9 -1139.5  
2623 8.9 91632.8 -1104.4  
2624 9.1 91655.1 -1110.9  
2625 9.0 91709.5 -1138.8  
2626 9.7 91720.8 -1119.2  
2627 8.3 91732.1 -1129.0  
2628 9.1 91801.6 -1127.5  
2629 9.3 91812.2 -1151.4  
2630 9.6 91841.0 -1150.8

2631 9.3 91844.1 -1108.7  
2632 9.3 91847.9 -1126.5  
2633 9.4 91906.4 -1102.5  
2634 9.8 91911.7 -1123.7  
2635 6.5 91919.9 -1154.8  
2636 9.0 91921.2 -1151.8  
2637 9.5 91927.3 -1117.0  
2638 9.5 91927.9 -1122.9  
2639 9.8 91943.1 -1126.5  
2640 9.8 91955.4 -1152.0

2641 9.8 92007.9 -1104.0  
2642 9.8 92031.7 -1151.4  
2643 8.6 92045.0 -1131.1  
2644 9.3 92052.0 -1145.0  
2645 9.4 92126.5 -1129.6  
2646 9.2 92209.5 -1106.2  
2647 9.1 92229.3 -1151.3  
2648 8.8 92233.9 -1146.3  
2649 9.8 92336.5 -1153.1  
2650 9.3 92423.0 -1149.4

2651 9.5 92476.8 -1135.0  
2652 7.0 92488.5 -1125.9  
2653 9.6 92493.3 -1159.6  
2654 9.4 92490.5 -1127.5  
2655 9.5 92455.4 -1153.0  
2656 8.7 92509.7 -1159.4  
2657 9.8 92515.0 -1144.7  
2658 9.0 92557.2 -1159.6  
2659 8.5 92557.7 -1156.9  
2660 9.5 92559.4 -1131.2

-11 2660 9h25m



-11 2661 9h26m

2661 10. 92610.2 -1149.2  
2662 9.5 92702.2 -1115.7  
2663 9.4 92707.6 -1144.1  
2664 9.0 92707.7 -1102.3  
2665 9.3 92714.6 -1109.8  
2666 9.6 92719.3 -1120.9  
2667 9.0 92719.5 -1135.1  
2668 8.5 92745.1 -1157.7  
2669 9.5 92746.1 -1157.8  
2670 6.3 92750.4 -1128.9  
  
2671 9.8 92757.7 -1109.3  
2672 9.5 92759.5 -1126.9  
2673 9.4 92809.8 -1133.9  
2674 7.8 92842.7 -1118.1  
2675 9.2 92852.9 -1102.0  
2676 10. 92852.9 -1144.2  
2677 9.5 92848.9 -1149.0  
2678 9.5 92949.4 -1105.0  
2679 10. 92953.1 -1157.1  
2680 9.6 93013.0 -1145.3  
  
2681 3.6 93013.4 -1134.2  
2682 1.5 93053.7 -1122.2  
2683 4.5 93057.7 -1147.5  
2684 6.5 93101.3 -1130.2  
2685 5.3 93106.8 -1151.9  
2686 8.6 93136.1 -1159.4  
2687 7.8 93138.6 -1108.5  
2688 9.5 93218.0 -1107.6  
2689 9.5 93219.8 -1118.8  
2690 10. 93219.9 -1101.0  
  
2691 9.8 93224.3 -1135.5  
2692 9.4 93227.8 -1146.6  
2693 9.3 93228.9 -1148.9  
2694 9.5 93246.0 -1103.4  
2695 9.4 93332.0 -1107.9  
2696 9.4 93345.1 -1150.0  
2697 9.5 93345.1 -1141.3  
2698 8.6 93345.3 -1116.8  
2699 9.0 93347.4 -1139.1  
2700 9.5 93409.3 -1148.5  
  
2701 9.2 93420.3 -1139.1  
2702 7.7 93443.5 -1157.5  
2703 9.8 93453.1 -1150.3  
2704 9.5 93514.2 -1157.2  
2705 9.4 93525.0 -1157.0  
2706 9.6 93531.1 -1141.0  
2707 10. 93633.1 -1152.5  
2708 9.8 93636.7 -1132.5  
2709 9.8 93643.6 -1143.2  
2710 9.7 93657.1 -1152.5  
  
2711 9.5 93706.6 -1120.2  
2712 8.3 93712.0 -1112.9  
2713 8.0 93741.2 -1100.2  
2714 9.3 93817.0 -1143.7  
2715 8.8 93826.3 -1148.5  
2716 9.8 93902.9 -1133.8  
2717 8.5 93943.0 -1114.2  
2718 7.8 93944.2 -1116.2  
2719 9.1 93948.6 -1142.9  
2720 9.8 93958.2 -1143.2  
  
2721 8.5 94035.5 -1123.8  
2722 8.3 94046.4 -1154.7  
2723 9.5 94050.9 -1114.7  
2724 8.7 94058.5 -1153.3  
2725 9.0 94115.4 -1119.1  
2726 9.8 94153.9 -1108.6  
2727 9.4 94202.8 -1100.2  
2728 9.5 94210.3 -1157.6  
2729 9.8 94216.4 -1154.1  
2730 9.3 94226.0 -1103.0  
  
2731 6.3 94229.5 -1106.6  
2732 8.5 94239.3 -1136.4  
2733 9.4 94243.4 -1122.0  
2734 9.7 94246.5 -1138.8  
2735 9.5 94255.4 -1132.1  
2736 8.3 94315.3 -1136.1  
2737 10. 94335.6 -1137.0  
2738 9.0 94337.1 -1137.7  
2739 9.5 94342.5 -1126.5  
2740 8.0 94349.7 -1103.4  
  
2741 9.3 94356.1 -1136.6  
2742 9.2 94411.0 -1132.9  
2743 9.8 94415.4 -1129.0  
2744 9.3 94417.8 -1116.8  
2745 10. 94441.4 -1145.7  
2746 9.1 94443.9 -1128.5  
2747 9.8 94449.6 -1103.5  
2748 9.5 94454.4 -1159.2  
2749 10. 94513.2 -1116.9  
2750 10. 94545.9 -1148.9

2751 9.1 94557.9 -1131.7  
2752 8.5 94609.3 -1155.0  
2753 9.5 94627.6 -1130.0  
2754 9.2 94627.6 -1124.5  
2755 9.0 94649.2 -1157.5  
2756 9.1 94732.8 -1122.5  
2757 9.0 94740.3 -1121.4  
2758 7.5 94758.4 -1147.0  
2759 9.8 94821.1 -1110.7  
2760 9.5 94838.2 -1122.9  
  
2761 9.1 94911.7 -1146.1  
2762 9.3 94932.6 -1107.3  
2763 9.1 94942.5 -1135.0  
2764 9.4 94946.4 -1141.0  
2765 8.4 94950.2 -1159.6  
2766 9.4 95021.8 -1141.4  
2767 9.1 95029.0 -1152.4  
2768 10. 95107.2 -1150.3  
2769 9.4 95112.8 -1133.8  
2770 9.4 95127.5 -1107.5  
  
2771 10. 95214.5 -1101.0  
2772 9.8 95216.6 -1134.4  
2773 9.5 95308.4 -1127.1  
2774 9.5 95331.7 -1100.3  
2775 9.0 95333.2 -1127.3  
2776 9.4 95430.5 -1159.2  
2777 5.5 95446.2 -1148.2  
2778 9.5 95508.4 -1107.8  
2779 9.5 95524.6 -1114.3  
2780 9.6 95531.5 -1104.8  
  
2781 9.0 95534.4 -1136.7  
2782 9.5 95609.8 -1102.8  
2783 9.4 95610.9 -1144.5  
2784 9.8 95636.6 -1151.8  
2785 9.7 95639.1 -1102.4  
2786 9.7 95729.5 -1143.8  
2787 7.8 95733.1 -1101.5  
2788 8.5 95759.0 -1116.1  
2789 8.3 95803.1 -1128.4  
2790 9.3 95807.4 -1105.4  
  
2791 9.1 95816.1 -1100.4  
2792 9.5 95818.6 -1123.4  
2793 9.7 95830.7 -1153.5  
2794 8.5 95832.8 -1148.7  
2795 9.1 95841.5 -1158.8  
2796 8.7 95845.0 -1119.0  
2797 9.4 95848.1 -1147.8  
2798 10. 95904.2 -1151.6  
2799 9.8 95905.4 -1128.3  
2800 9.4 95907.6 -1125.7  
  
2801 9.6 95908.5 -1143.0  
2802 9.8 95914.0 -1123.2  
2803 8.1 95935.2 -1146.2  
2804 9.1 95945.5 -1124.8  
2805 9.4 95949.0 -1118.4  
2806 9.5 100014.0 -1149.0  
2807 9.7 100101.5 -1143.5  
2808 9.8 100103.0 -1141.9  
2809 9.5 100117.6 -1144.8  
2810 9.5 100117.9 -1135.7  
  
2811 8.2 100130.6 -1148.7  
2812 8.8 100144.4 -1154.6  
2813 9.5 100149.7 -1136.3  
2814 9.3 100214.5 -1123.6  
2815 9.6 100227.5 -1125.8  
2816 7.5 100231.8 -1110.9  
2817 10. 100240.3 -1131.0  
2818 6.8 100249.9 -1123.0  
2819 9.5 100313.4 -1123.4  
2820 3.5 100330.7 -1138.3  
  
2821 9.9 100336.4 -1156.0  
2822 9.5 100430.9 -1155.7  
2823 9.1 100440.8 -1135.4  
2824 9.8 100500.3 -1120.4  
2825 8.3 100538.9 -1118.9  
2826 9.5 100628.1 -1140.0  
2827 9.3 100643.4 -1104.7  
2828 9.0 100657.4 -1104.2  
2829 8.0 100714.3 -1152.4  
2830 9.8 100724.8 -1130.4  
  
2831 9.2 100729.3 -1101.2  
2832 8.8 100744.9 -1123.2  
2833 7.3 100749.3 -1118.1  
2834 9.0 100758.0 -1156.3  
2835 7.5 100805.0 -1104.4  
2836 9.4 100842.6 -1143.2  
2837 9.8 100854.4 -1129.5  
2838 8.3 100940.6 -1100.4  
2839 9.6 100950.1 -1107.8  
2840 9.4 101001.2 -1111.9

2841 8.5 101005.8 -1124.2  
2842 9.8 101015.7 -1114.3  
2843 7.8 101036.8 -1121.1  
2844 9.3 101054.2 -1156.9  
2845 10. 101103.5 -1131.5  
2846 9.4 101104.4 -1153.6  
2847 9.7 101108.0 -1151.1  
2848 9.5 101125.3 -1120.3  
2849 8.5 101159.9 -1133.0  
2850 9.7 101204.5 -1146.9  
  
2851 6.5 101209.8 -1148.1  
2852 10. 101229.9 -1130.5  
2853 9.4 101238.3 -1129.0  
2854 9.8 101251.5 -1101.3  
2855 9.5 101259.4 -1158.7  
2856 9.6 101302.2 -1104.8  
2857 9.0 101304.7 -1128.3  
2858 8.9 101316.3 -1125.0  
2859 9.5 101317.0 -1140.7  
2860 8.9 101320.5 -1127.8  
  
2861 9.8 101329.2 -1149.0  
2862 9.8 101337.8 -1139.8  
2863 9.2 101356.2 -1155.5  
2864 9.7 101421.7 -1100.1  
2865 9.7 101443.1 -1144.1  
2866 9.4 101513.8 -1122.3  
2867 9.0 101517.2 -1142.2  
2868 9.5 101521.9 -1100.2  
2869 9.8 101538.0 -1109.5  
2870 9.3 101617.8 -1108.8  
  
2871 7.6 101628.6 -1145.5  
2872 9.5 101629.5 -1126.9  
2873 9.8 101648.6 -1113.5  
2874 9.1 101758.3 -1135.6  
2875 9.5 101818.8 -1126.2  
2876 9.2 101833.0 -1156.8  
2877 9.0 101841.0 -1116.7  
2878 9.1 101851.7 -1133.6  
2879 9.5 101910.0 -1153.8  
2880 8.3 101914.6 -1120.2  
  
2881 8.4 101956.8 -1136.3  
2882 10. 102005.2 -1144.0  
2883 9.5 102009.1 -1106.4  
2884 9.1 102153.0 -1159.6  
2885 8.5 102154.2 -1131.9  
2886 7.8 102159.3 -1141.6  
2887 9.3 102206.7 -1134.9  
2888 9.5 102302.4 -1155.3  
2889 8.3 102310.1 -1123.9  
2890 9.5 102320.0 -1118.9  
  
2891 9.4 102345.0 -1149.6  
2892 9.8 102350.6 -1125.4  
2893 8.0 102355.0 -1100.8  
2894 9.1 102404.4 -1110.0  
2895 9.1 102416.9 -1156.9  
2896 9.7 102419.7 -1104.6  
2897 9.2 102429.4 -1115.8  
2898 8.3 102452.2 -1127.3  
2899 10. 102514.8 -1107.2  
2900 10. 102515.7 -1101.0  
  
2901 9.7 102517.2 -1118.4  
2902 9.1 102519.9 -1156.9  
2903 9.5 102541.4 -1147.0  
2904 8.7 102601.8 -1102.7  
2905 9.4 102605.7 -1105.1  
2906 8.5 102612.3 -1143.3  
2907 9.8 102630.1 -1136.5  
2908 9.8 102636.4 -1157.0  
2909 9.8 102644.5 -1146.2  
2910 9.7 102654.3 -1103.8  
  
2911 8.6 102708.7 -1106.8  
2912 9.0 102738.9 -1128.3  
2913 9.0 102746.6 -1102.1  
2914 9.0 102811.3 -1159.7  
2915 9.5 102829.1 -1148.7  
2916 7.8 102850.2 -1109.6  
2917 9.4 102912.0 -1137.9  
2918 5.7 102919.4 -1127.4  
2919 9.1 102955.4 -1133.3  
2920 9.4 103000.6 -1152.4  
  
2921 7.2 103016.5 -1138.7  
2922 9.1 103041.4 -1116.2  
2923 10. 103042.8 -1147.8  
2924 9.8 103046.9 -1151.0  
2925 6.5 103140.2 -1141.2  
2926 9.4 103152.6 -1108.4  
2927 9.8 103158.2 -1116.2  
2928 9.3 103307.8 -1100.4  
2929 8.5 103345.8 -1126.7  
2930 9.8 103347.1 -1113.0

2931 9.5 103432.8 -1128.6  
2932 9.9 103518.0 -1109.1  
2933 9.8 103623.0 -1130.2  
2934 9.8 103635.7 -1159.7  
2935 9.2 103645.6 -1113.1  
2936 9.5 103747.6 -1124.8  
2937 9.0 103817.1 -1105.5  
2938 9.4 103843.9 -1144.7  
2939 9.8 103936.5 -1153.9  
2940 9.4 103937.3 -1100.8  
  
2941 8.5 103954.0 -1114.9  
2942 9.5 104003.6 -1148.7  
2943 9.9 104005.1 -1107.2  
2944 9.0 104014.9 -1108.2  
2945 9.5 104038.4 -1105.6  
2946 9.3 104039.2 -1115.1  
2947 9.7 104044.8 -1147.5  
2948 8.9 104045.1 -1152.7  
2949 8.1 104056.5 -1124.0  
2950 8.6 104058.8 -1121.9  
  
2951 9.8 104113.6 -1150.5  
2952 9.6 104126.8 -1100.4  
2953 9.8 104145.3 -1120.8  
2954 9.0 104149.2 -1114.4  
2955 10. 104155.0 -1150.9  
2956 10. 104218.1 -1108.0  
2957 8.2 104219.2 -1111.6  
2958 9.6 104222.2 -1141.1  
2959 9.0 104314.9 -1136.8  
2960 9.6 104319.0 -1148.0  
  
2961 9.3 104323.5 -1106.3  
2962 8.7 104324.3 -1110.0  
2963 10. 104353.2 -1123.2  
2964 9.5 104403.3 -1138.8  
2965 9.4 104406.1 -1120.2  
2966 9.6 104428.2 -1137.9  
2967 9.9 104524.0 -1108.2  
2968 9.1 104618.2 -1151.1  
2969 9.1 104644.0 -1104.2  
2970 6.8 104644.8 -1139.8  
  
2971 9.5 104706.4 -1121.2  
2972 9.8 104714.8 -1148.7  
2973 9.0 104752.7 -1126.2  
2974 7.5 104801.1 -1121.1  
2975 9.5 104808.0 -1108.2  
2976 9.8 104827.2 -1119.3  
2977 9.9 104901.4 -1152.6  
2978 9.5 104910.1 -1116.8  
2979 9.6 104915.0 -1103.1  
2980 9.4 104939.3 -1136.3  
  
2981 8.5 105022.6 -1123.0  
2982 9.1 105026.1 -1142.4  
2983 8.5 105057.3 -1137.2  
2984 9.4 105057.8 -1117.0  
2985 9.1 105207.6 -1142.1  
2986 9.2 105212.4 -1158.6  
2987 9.2 105217.0 -1153.1  
2988 9.4 105232.8 -1137.1  
2989 9.7 105233.3 -1145.9  
2990 9.5 105254.2 -1101.9  
  
2991 8.3 105301.5 -1122.0  
2992 9.5 105302.4 -1154.1  
2993 8.0 105303.2 -1100.3  
2994 7.7 105327.8 -1151.6  
2995 8.0 105336.0 -1118.0  
2996 7.5 105337.6 -1146.5  
2997 9.8 105345.8 -1157.5  
2998 9.8 105354.3 -1149.7  
2999 8.5 105407.8 -1107.4  
3000 9.4 105408.2 -1112.8  
  
3001 8.0 105408.8 -1117.1  
3002 8.0 105412.5 -1158.4  
3003 9.3 105450.3 -1137.3  
3004 8.4 105454.5 -1104.0  
3005 9.5 105501.5 -1118.7  
3006 8.8 105519.2 -1136.2  
3007 9.6 105552.7 -1118.5  
3008 9.8 105555.4 -1124.9  
3009 9.8 105611.7 -1147.1  
3010 9.7 105622.9 -1117.1  
  
3011 9.2 105627.5 -1148.6  
3012 9.0 105627.7 -1148.3  
3013 9.6 105653.4 -1128.8  
3014 8.9 105653.8 -1104.0  
3015 9.0 105701.7 -1155.0  
3016 10. 105801.5 -1126.4  
3017 9.8 105810.7 -1144.3  
3018 9.0 105817.3 -1122.9  
3019 9.8 105820.5 -1136.7  
3020 9.1 105821.6 -1150.2

-11 3020 10h58m



3021 10. 105823.1 -1123.4  
 3022 8.6 105843.8 -1122.8  
 3023 10. 105906.0 -1101.6  
 3024 9.4 105924.0 -1117.3  
 3025 9.5 105932.6 -1150.9  
 3026 9.2 105935.3 -1104.0  
 3027 8.6 105946.9 -1109.7  
 3028 10. 110004.5 -1103.8  
 3029 9.2 110015.3 -1102.7  
 3030 8.2 110024.3 -1148.0

3031 9.4 110025.7 -1152.4  
 3032 10. 110045.8 -1119.5  
 3033 10. 110057.4 -1115.2  
 3034 9.7 110058.9 -1152.6  
 3035 9.0 110108.6 -1139.9  
 3036 9.6 110115.6 -1101.3  
 3037 8.7 110116.2 -1112.9  
 3038 10. 110157.0 -1132.2  
 3039 9.6 110203.5 -1136.0  
 3040 9.4 110209.1 -1116.4

3041 9.8 110234.7 -1109.7  
 3042 9.6 110239.1 -1141.9  
 3043 9.6 110254.0 -1131.7  
 3044 9.5 110301.2 -1146.0  
 3045 9.8 110310.5 -1132.1  
 3046 9.0 110450.4 -1137.2  
 3047 9.5 110520.8 -1102.2  
 3048 9.6 110529.4 -1117.5  
 3049 9.8 110535.2 -1112.9  
 3050 9.5 110537.3 -1108.9

3051 7.2 110540.7 -1159.7  
 3052 10. 110547.6 -1145.9  
 3053 9.5 110555.0 -1131.4  
 3054 10. 110624.8 -1144.9  
 3055 9.8 110651.1 -1148.3  
 3056 9.6 110702.2 -1110.8  
 3057 10. 110736.1 -1158.9  
 3058 9.4 110742.9 -1132.3  
 3059 10. 110745.1 -1148.9  
 3060 8.7 110747.0 -1130.2

3061 9.3 110757.1 -1109.5  
 3062 8.3 110817.3 -1128.7  
 3063 6.5 110822.8 -1147.0  
 3064 9.7 110830.4 -1127.8  
 3065 10. 110839.1 -1155.1  
 3066 9.1 110850.0 -1145.7  
 3067 9.6 110914.0 -1123.9  
 3068 8.5 110929.7 -1152.7  
 3069 9.8 111015.3 -1128.5  
 3070 9.6 111020.0 -1110.2

3071 9.5 111047.0 -1118.6  
 3072 8.8 111123.5 -1139.6  
 3073 9.7 111159.5 -1137.9  
 3074 9.3 111206.6 -1121.7  
 3075 9.9 111212.9 -1159.8  
 3076 9.1 111235.2 -1135.8  
 3077 9.4 111259.3 -1129.4  
 3078 8.5 111315.1 -1152.9  
 3079 8.7 111336.8 -1122.7  
 3080 9.8 111356.7 -1132.9

3081 7.7 111414.5 -1154.3  
 3082 9.7 111500.4 -1118.1  
 3083 8.9 111513.5 -1151.4  
 3084 9.3 111538.4 -1159.3  
 3085 7.9 111605.2 -1118.3  
 3086 9.8 111611.6 -1103.1  
 3087 9.4 111640.0 -1113.8  
 3088 9.8 111703.2 -1135.8  
 3089 9.8 111734.0 -1146.2  
 3090 8.3 111744.5 -1145.3

3091 8.4 111759.4 -1110.1  
 3092 8.2 111806.7 -1122.4  
 3093 9.8 111823.3 -1157.9  
 3094 9.1 111827.5 -1144.5  
 3095 9.8 111855.1 -1145.0  
 3096 9.4 111857.2 -1152.1  
 3097 9.1 111943.8 -1117.2  
 3098 6.0 111951.6 -1133.4  
 3099 9.0 112003.2 -1140.3  
 3100 7.7 112012.5 -1138.3

3101 9.7 112014.0 -1133.5  
 3102 9.3 112040.4 -1147.8  
 3103 9.8 112044.1 -1128.3  
 3104 9.5 112107.8 -1158.7  
 3105 8.7 112121.7 -1130.6  
 3106 9.5 112128.8 -1158.7  
 3107 9.5 112136.2 -1116.4  
 3108 9.4 112145.7 -1119.8  
 3109 9.8 112257.0 -1131.6  
 3110 9.1 112304.7 -1115.8

3111 9.1 112316.8 -1156.2  
 3112 9.8 112403.3 -1141.2  
 3113 9.5 112415.1 -1125.6  
 3114 9.2 112422.2 -1135.0  
 3115 9.4 112435.7 -1118.9  
 3116 7.4 112456.5 -1135.4  
 3117 9.5 112459.5 -1113.3  
 3118 9.6 112501.2 -1135.0  
 3119 9.4 112507.9 -1151.2  
 3120 9.4 112512.6 -1137.8

3121 8.8 112529.0 -1146.0  
 3122 9.5 112530.5 -1132.6  
 3123 8.2 112531.5 -1113.7  
 3124 9.7 112641.7 -1101.6  
 3125 10. 112655.4 -1137.1  
 3126 9.5 112715.5 -1123.3  
 3127 9.7 112716.8 -1116.4  
 3128 8.9 112723.6 -1111.9  
 3129 7.3 112735.1 -1117.2  
 3130 9.7 112757.1 -1143.2

3131 9.9 112802.0 -1158.1  
 3132 7.5 112813.4 -1126.0  
 3133 9.6 112855.3 -1132.7  
 3134 9.4 112915.1 -1103.4  
 3135 9.0 112920.8 -1134.1  
 3136 9.0 112928.3 -1132.7  
 3137 9.5 112953.5 -1155.7  
 3138 7.5 112959.3 -1132.2  
 3139 9.4 113007.5 -1113.7  
 3140 9.6 113005.7 -1115.9

3141 9.8 113039.2 -1110.8  
 3142 9.2 113059.4 -1126.2  
 3143 9.5 113123.6 -1149.0  
 3144 9.0 113134.0 -1120.1  
 3145 9.2 113208.9 -1122.4  
 3146 9.8 113222.7 -1131.3  
 3147 9.0 113232.8 -1121.9  
 3148 9.8 113238.3 -1127.5  
 3149 9.8 113300.5 -1107.0  
 3150 9.1 113305.5 -1149.6

3151 9.9 113305.5 -1117.0  
 3152 9.7 113309.6 -1142.9  
 3153 9.5 113319.7 -1128.9  
 3154 9.1 113322.8 -1126.2  
 3155 9.1 113335.7 -1123.8  
 3156 9.6 113450.1 -1158.3  
 3157 9.0 113508.7 -1122.7  
 3158 9.4 113512.0 -1125.6  
 3159 9.2 113529.8 -1146.1  
 3160 9.8 113531.9 -1100.0

3161 9.8 113541.7 -1128.5  
 3162 9.8 113544.2 -1104.4  
 3163 9.0 113552.6 -1159.7  
 3164 9.1 113607.5 -1145.5  
 3165 9.6 113621.0 -1124.1  
 3166 9.1 113623.0 -1123.6  
 3167 9.7 113628.6 -1137.0  
 3168 9.4 113635.3 -1117.2  
 3169 9.8 113702.9 -1113.3  
 3170 9.9 113705.1 -1155.6

3171 9.3 113715.5 -1101.7  
 3172 9.5 113744.2 -1103.2  
 3173 9.4 113758.4 -1149.6  
 3174 9.8 113826.1 -1129.9  
 3175 9.4 113832.0 -1157.2  
 3176 8.0 113852.8 -1113.1  
 3177 9.7 113940.4 -1143.9  
 3178 8.8 113942.6 -1101.1  
 3179 9.8 113945.8 -1115.7  
 3180 8.9 113947.5 -1138.0

3181 9.8 114016.5 -1135.4  
 3182 9.8 114042.7 -1119.3  
 3183 8.7 114108.6 -1139.1  
 3184 8.2 114142.7 -1148.6  
 3185 9.8 114206.0 -1156.9  
 3186 8.8 114313.9 -1153.9  
 3187 9.8 114316.6 -1147.8  
 3188 9.6 114334.0 -1108.7  
 3189 9.8 114358.0 -1142.6  
 3190 6.3 114400.0 -1123.1

3191 9.8 114406.9 -1129.4  
 3192 9.5 114443.3 -1136.7  
 3193 9.5 114517.6 -1152.3  
 3194 9.8 114518.5 -1147.9  
 3195 9.3 114535.4 -1120.0  
 3196 9.2 114553.7 -1139.6  
 3197 9.4 114556.5 -1148.4  
 3198 9.3 114605.1 -1116.4  
 3199 9.5 114606.9 -1123.6  
 3200 8.4 114621.4 -1145.1

3201 9.9 114714.8 -1156.0  
 3202 8.2 114725.6 -1156.5  
 3203 9.3 114734.8 -1136.1  
 3204 9.3 114751.2 -1157.8  
 3205 8.9 114752.3 -1131.2  
 3206 9.3 114834.1 -1146.0  
 3207 8.6 114854.8 -1127.7  
 3208 9.6 114914.5 -1138.6  
 3209 9.0 114915.7 -1134.3  
 3210 9.2 114924.0 -1116.2

3211 7.2 114927.4 -1118.0  
 3212 9.8 115024.2 -1131.9  
 3213 9.8 115050.6 -1112.4  
 3214 4.2 115102.8 -1119.1  
 3215 9.1 115119.0 -1114.2  
 3216 9.8 115141.6 -1149.9  
 3217 9.8 115214.3 -1129.5  
 3218 9.3 115219.7 -1157.7  
 3219 9.8 115308.0 -1105.4  
 3220 8.0 115322.3 -1121.0

3221 9.4 115323.6 -1155.5  
 3222 9.8 115404.3 -1121.0  
 3223 9.2 115430.4 -1104.7  
 3224 8.8 115454.2 -1126.6  
 3225 8.0 115501.4 -1107.1  
 3226 8.3 115504.9 -1109.9  
 3227 9.3 115506.6 -1129.2  
 3228 8.6 115531.1 -1100.1  
 3229 10. 115580.2 -1123.3  
 3230 9.9 115587.9 -1109.0

3231 9.9 115635.3 -1112.1  
 3232 9.1 115654.0 -1149.3  
 3233 9.8 115712.7 -1118.0  
 3234 9.8 115742.5 -1127.5  
 3235 9.1 115744.0 -1116.4  
 3236 9.5 115836.4 -1131.5  
 3237 9.8 115804.9 -1101.2  
 3238 6.3 115922.6 -1126.0  
 3239 9.3 115926.5 -1142.0  
 3240 9.4 115956.5 -1137.1

3241 9.8 115958.9 -1159.2  
 3242 9.4 115958.9 -1152.6  
 3243 9.6 120042.2 -1120.1  
 3244 9.6 120045.9 -1120.1  
 3245 9.9 120128.0 -1148.8  
 3246 7.0 120200.0 -1102.2  
 3247 8.8 120200.5 -1125.7  
 3248 9.0 120202.6 -1102.3  
 3249 9.8 120214.4 -1156.6  
 3250 9.1 120251.8 -1141.6

3251 7.9 120348.3 -1117.1  
 3252 9.7 120353.1 -1111.8  
 3253 9.5 120413.2 -1104.6  
 3254 8.8 120431.8 -1101.4  
 3255 10. 120437.1 -1104.6  
 3256 7.8 120529.7 -1158.6  
 3257 9.0 120553.9 -1141.3  
 3258 10. 120555.1 -1136.4  
 3259 9.9 120614.6 -1115.0  
 3260 9.6 120642.8 -1153.5

3261 9.6 120648.8 -1133.8  
 3262 8.5 120716.6 -1149.9  
 3263 9.0 120727.8 -1149.0  
 3264 9.1 120802.7 -1157.3  
 3265 8.8 120808.6 -1139.3  
 3266 9.8 120813.9 -1124.6  
 3267 10. 120821.9 -1117.9  
 3268 8.5 120846.0 -1113.2  
 3269 9.0 120911.2 -1132.6  
 3270 9.6 120927.7 -1100.6

3271 9.5 120934.2 -1139.0  
 3272 8.7 120952.3 -1128.2  
 3273 9.6 120957.9 -1116.6  
 3274 9.4 121007.7 -1137.6  
 3275 9.4 121014.8 -1128.0  
 3276 9.0 121035.2 -1152.1  
 3277 9.8 121150.6 -1135.3  
 3278 9.0 121201.6 -1133.4  
 3279 9.3 121218.4 -1145.5  
 3280 10. 121239.7 -1126.6

3281 9.0 121244.3 -1112.3  
 3282 9.5 121303.1 -1132.0  
 3283 9.2 121310.3 -1115.5  
 3284 9.8 121311.6 -1132.9  
 3285 9.4 121314.8 -1118.8  
 3286 8.5 121354.5 -1158.8  
 3287 9.8 121401.5 -1141.3  
 3288 9.8 121410.7 -1150.3  
 3289 9.6 121534.5 -1138.5  
 3290 9.5 121544.0 -1138.1

3291 6.8 121550.5 -1100.5  
 3292 9.8 121626.7 -1115.9  
 3293 9.3 121644.1 -1123.5  
 3294 8.8 121703.6 -1128.6  
 3295 9.1 121707.9 -1122.7  
 3296 9.8 121738.0 -1158.6  
 3297 9.8 121754.1 -1121.7  
 3298 10. 121827.8 -1101.5  
 3299 8.8 121829.1 -1105.3  
 3300 9.6 121838.0 -1143.4

3301 9.3 121841.6 -1130.8  
 3302 9.8 121850.7 -1122.0  
 3303 9.3 121856.4 -1150.8  
 3304 9.8 121914.0 -1126.9  
 3305 9.4 121931.7 -1120.0  
 3306 9.8 122013.7 -1103.7  
 3307 8.9 122041.6 -1145.8  
 3308 8.4 122108.2 -1114.0  
 3309 9.5 122115.5 -1147.5  
 3310 9.3 122134.4 -1152.2

3311 8.3 122229.0 -1115.7  
 3312 9.6 122238.2 -1139.7  
 3313 9.4 122333.5 -1139.0  
 3314 8.2 122353.8 -1140.9  
 3315 9.3 122417.8 -1144.8  
 3316 9.8 122420.7 -1140.1  
 3317 8.1 122422.3 -1152.5  
 3318 9.4 122441.3 -1133.5  
 3319 9.5 122507.6 -1123.7  
 3320 8.8 122513.5 -1158.9

3321 9.1 122522.3 -1118.0  
 3322 9.0 122535.8 -1113.1  
 3323 9.8 122541.4 -1145.7  
 3324 8.9 122549.4 -1150.6  
 3325 8.7 122602.0 -1151.8  
 3326 9.4 122658.4 -1102.4  
 3327 9.3 122740.5 -1128.4  
 3328 6.3 122802.5 -1113.0  
 3329 9.8 122813.7 -1125.5  
 3330 8.7 122814.3 -1113.5

3331 8.8 122814.6 -1113.1  
 3332 9.3 122819.3 -1110.7  
 3333 6.5 122822.5 -1116.1  
 3334 8.7 122831.5 -1127.7  
 3335 8.5 122854.0 -1144.8  
 3336 9.1 122916.8 -1155.0  
 3337 8.3 122919.1 -1134.8  
 3338 8.0 122946.4 -1135.1  
 3339 9.8 123109.9 -1108.6  
 3340 9.8 123150.5 -1157.0

3341 8.9 123240.7 -1151.6  
 3342 9.0 123241.6 -1102.6  
 3343 9.0 123249.0 -1138.0  
 3344 9.7 123252.2 -1101.2  
 3345 9.5 123300.3 -1129.1  
 3346 9.3 123306.6 -1152.5  
 3347 9.4 123402.4 -1131.0  
 3348 9.5 123451.5 -1154.9  
 3349 9.5 123503.1 -1156.5  
 3350 9.2 123538.0 -1113.2

3351 8.5 123604.6 -1147.5  
 3352 9.5 123611.9 -1117.0  
 3353 6.5 123614.8 -1113.3  
 3354 8.9 123620.1 -1115.3  
 3355 9.3 123620.5 -1119.0  
 3356 9.5 123637.0 -1133.1  
 3357 9.2 123637.2 -1108.8  
 3358 9.3 123651.1 -1151.5  
 3359 8.5 123814.3 -1125.6  
 3360 9.3 123831.7 -1104.3

3361 7.0 123900.5 -1101.2  
 3362 9.8 123915.2 -1116.9  
 3363 9.6 123918.2 -1119.1  
 3364 9.6 123919.4 -1157.1  
 3365 7.8 123944.2 -1129.2  
 3366 7.5 124010.7 -1146.9  
 3367 9.0 124026.6 -1141.5  
 3368 9.0 124032.5 -1156.6  
 3369 8.3 124053.2 -1144.5  
 3370 9.3 124114.8 -1148.8

3371 9.1 124127.1 -1102.6  
 3372 9.4 124129.2 -1114.4  
 3373 8.9 124134.7 -1122.3  
 3374 8.9 124149.1 -1108.9  
 3375 8.7 124239.0 -1147.8  
 3376 9.5 124239.8 -1104.4  
 3377 9.4 124238.1 -1133.3  
 3378 8.3 124346.9 -1103.2  
 3379 9.0 124420.0 -1113.1  
 3380 9.1 124452.2 -1138.9



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 3381 | 9.6 | 124453.9 | -1148.0 | 3471 | 9.4 | 130853.6 | -1144.7 | 3561 | 9.5 | 133128.0 | -1125.0 | 3651 | 8.3 | 135435.0 | -1120.0 |
| 3382 | 9.9 | 124501.8 | -1149.7 | 3472 | 9.2 | 130905.2 | -1140.3 | 3562 | 7.3 | 133135.8 | -1120.8 | 3652 | 9.3 | 135441.5 | -1100.6 |
| 3383 | 9.5 | 124505.0 | -1109.4 | 3473 | 8.7 | 130913.3 | -1100.1 | 3563 | 9.5 | 133220.3 | -1146.3 | 3653 | 9.5 | 135501.6 | -1135.7 |
| 3384 | 8.5 | 124537.5 | -1108.3 | 3474 | 9.8 | 130918.6 | -1153.3 | 3564 | 8.9 | 133234.5 | -1158.1 | 3654 | 9.8 | 135505.7 | -1156.6 |
| 3385 | 9.6 | 124537.6 | -1154.5 | 3475 | 9.5 | 130933.4 | -1134.7 | 3565 | 9.7 | 133248.1 | -1133.6 | 3655 | 9.1 | 135524.1 | -1155.1 |
| 3386 | 9.4 | 124645.3 | -1154.6 | 3476 | 8.0 | 130934.4 | -1145.5 | 3566 | 9.5 | 133252.4 | -1136.0 | 3656 | 9.9 | 135528.0 | -1125.2 |
| 3387 | 9.4 | 124703.3 | -1106.2 | 3477 | 10. | 130937.4 | -1121.7 | 3567 | 9.1 | 133299.8 | -1143.4 | 3657 | 8.9 | 135530.6 | -1105.7 |
| 3388 | 9.6 | 124708.8 | -1157.9 | 3478 | 9.5 | 130951.5 | -1128.8 | 3568 | 9.3 | 133343.2 | -1141.3 | 3658 | 9.9 | 135611.6 | -1145.3 |
| 3389 | 9.5 | 124724.3 | -1154.5 | 3479 | 9.8 | 131002.9 | -1102.5 | 3569 | 9.7 | 133436.5 | -1104.0 | 3659 | 7.5 | 135627.8 | -1125.8 |
| 3390 | 9.1 | 124808.2 | -1115.6 | 3480 | 10. | 131003.8 | -1121.8 | 3570 | 9.8 | 133446.7 | -1147.9 | 3660 | 9.5 | 135628.1 | -1156.0 |
| 3391 | 9.4 | 124817.5 | -1116.1 | 3481 | 9.7 | 131019.7 | -1105.1 | 3571 | 9.8 | 133451.3 | -1135.1 | 3661 | 9.5 | 135703.0 | -1148.4 |
| 3392 | 9.8 | 124821.9 | -1109.6 | 3482 | 8.9 | 131031.3 | -1120.4 | 3572 | 7.0 | 133453.7 | -1120.9 | 3662 | 9.0 | 135728.1 | -1156.4 |
| 3393 | 9.6 | 124833.5 | -1108.3 | 3483 | 9.9 | 131042.8 | -1143.6 | 3573 | 9.8 | 133506.3 | -1135.2 | 3663 | 9.5 | 135819.4 | -1119.5 |
| 3394 | 9.3 | 124834.0 | -1112.0 | 3484 | 9.8 | 131107.1 | -1137.2 | 3574 | 9.0 | 133516.5 | -1145.1 | 3664 | 8.3 | 135827.5 | -1108.5 |
| 3395 | 7.3 | 124908.8 | -1109.3 | 3485 | 9.8 | 131108.4 | -1127.2 | 3575 | 9.4 | 133517.3 | -1122.4 | 3665 | 9.8 | 135836.5 | -1133.9 |
| 3396 | 10. | 124917.3 | -1154.1 | 3486 | 7.5 | 131112.3 | -1114.4 | 3576 | 9.4 | 133519.0 | -1117.3 | 3666 | 9.4 | 135853.2 | -1110.8 |
| 3397 | 9.8 | 124917.5 | -1158.8 | 3487 | 7.3 | 131120.6 | -1152.9 | 3577 | 9.7 | 133541.6 | -1155.7 | 3667 | 9.5 | 135951.9 | -1106.3 |
| 3398 | 6.7 | 124938.7 | -1116.6 | 3488 | 9.1 | 131125.7 | -1112.8 | 3578 | 9.4 | 133541.6 | -1152.1 | 3668 | 8.6 | 140001.0 | -1128.0 |
| 3399 | 9.1 | 125008.1 | -1106.1 | 3489 | 8.9 | 131131.7 | -1140.4 | 3579 | 8.5 | 133603.7 | -1110.4 | 3669 | 9.5 | 140002.9 | -1121.8 |
| 3400 | 10. | 125026.1 | -1159.0 | 3490 | 8.0 | 131158.1 | -1143.1 | 3580 | 9.4 | 133639.7 | -1108.6 | 3670 | 8.2 | 140038.0 | -1152.2 |
| 3401 | 9.3 | 125047.5 | -1154.7 | 3491 | 10. | 131220.3 | -1159.3 | 3581 | 9.5 | 133711.8 | -1126.9 | 3671 | 6.5 | 140043.4 | -1107.8 |
| 3402 | 9.0 | 125051.9 | -1147.4 | 3492 | 9.0 | 131221.7 | -1142.3 | 3582 | 9.5 | 133715.5 | -1141.6 | 3672 | 9.4 | 140044.0 | -1144.8 |
| 3403 | 7.9 | 125056.3 | -1143.4 | 3493 | 9.2 | 131246.3 | -1136.2 | 3583 | 9.3 | 133721.8 | -1156.4 | 3673 | 9.4 | 140057.0 | -1121.5 |
| 3404 | 10. | 125109.4 | -1132.9 | 3494 | 9.9 | 131329.5 | -1141.9 | 3584 | 8.8 | 133728.1 | -1106.1 | 3674 | 9.5 | 140057.7 | -1141.0 |
| 3405 | 9.7 | 125125.6 | -1146.7 | 3495 | 9.6 | 131343.0 | -1146.1 | 3585 | 9.5 | 133735.8 | -1129.1 | 3675 | 9.7 | 140117.9 | -1113.9 |
| 3406 | 9.5 | 125141.0 | -1137.2 | 3496 | 9.5 | 131346.7 | -1141.5 | 3586 | 9.7 | 133742.0 | -1143.4 | 3676 | 9.2 | 140137.0 | -1142.2 |
| 3407 | 9.0 | 125205.7 | -1121.0 | 3497 | 9.2 | 131428.3 | -1125.7 | 3587 | 8.0 | 133753.3 | -1139.0 | 3677 | 9.0 | 140204.3 | -1142.5 |
| 3408 | 9.2 | 125206.5 | -1137.5 | 3498 | 6.7 | 131429.0 | -1149.0 | 3588 | 9.4 | 133756.5 | -1106.9 | 3678 | 9.0 | 140209.6 | -1128.2 |
| 3409 | 9.8 | 125239.2 | -1117.2 | 3499 | 9.4 | 131449.4 | -1142.5 | 3589 | 9.5 | 133800.8 | -1126.5 | 3679 | 9.8 | 140223.9 | -1158.3 |
| 3410 | 9.5 | 125248.6 | -1149.0 | 3500 | 9.2 | 131454.0 | -1140.2 | 3590 | 9.5 | 133801.4 | -1136.3 | 3680 | 7.3 | 140224.4 | -1115.6 |
| 3411 | 9.4 | 125314.8 | -1125.8 | 3501 | 9.7 | 131546.0 | -1144.0 | 3591 | 5.6 | 133813.0 | -1141.7 | 3681 | 8.8 | 140322.2 | -1145.5 |
| 3412 | 9.3 | 125319.2 | -1116.4 | 3502 | 9.3 | 131558.2 | -1108.2 | 3592 | 9.6 | 133821.7 | -1101.5 | 3682 | 9.5 | 140346.8 | -1122.6 |
| 3413 | 8.0 | 125340.3 | -1150.2 | 3503 | 9.5 | 131601.4 | -1123.1 | 3593 | 9.7 | 133824.3 | -1101.8 | 3683 | 9.0 | 140348.8 | -1112.4 |
| 3414 | 8.8 | 125403.2 | -1135.0 | 3504 | 9.8 | 131722.3 | -1157.3 | 3594 | 9.7 | 133833.3 | -1152.4 | 3684 | 7.8 | 140359.9 | -1155.4 |
| 3415 | 9.4 | 125423.9 | -1148.2 | 3505 | 9.5 | 131749.4 | -1139.2 | 3595 | 9.7 | 133842.8 | -1124.6 | 3685 | 9.3 | 140412.8 | -1150.2 |
| 3416 | 9.8 | 125429.4 | -1149.3 | 3506 | 9.6 | 131751.5 | -1125.7 | 3596 | 10. | 133924.9 | -1132.7 | 3686 | 8.7 | 140431.9 | -1138.3 |
| 3417 | 9.8 | 125438.6 | -1108.2 | 3507 | 8.7 | 131759.9 | -1143.7 | 3597 | 9.4 | 133939.7 | -1123.6 | 3687 | 9.2 | 140448.8 | -1116.8 |
| 3418 | 7.3 | 125439.1 | -1119.3 | 3508 | 9.4 | 131807.8 | -1157.1 | 3598 | 9.7 | 134037.7 | -1122.0 | 3688 | 9.6 | 140500.9 | -1146.7 |
| 3419 | 9.4 | 125451.2 | -1117.8 | 3509 | 9.3 | 131810.3 | -1156.0 | 3599 | 9.9 | 134040.0 | -1145.6 | 3689 | 9.1 | 140519.8 | -1149.8 |
| 3420 | 9.5 | 125527.7 | -1114.5 | 3510 | 10. | 131817.3 | -1130.3 | 3600 | 9.8 | 134046.8 | -1140.8 | 3690 | 9.0 | 140523.8 | -1151.0 |
| 3421 | 9.1 | 125528.5 | -1122.5 | 3511 | 9.7 | 131825.4 | -1138.7 | 3601 | 10. | 134052.9 | -1136.3 | 3691 | 9.0 | 140534.9 | -1128.0 |
| 3422 | 9.3 | 125528.8 | -1154.3 | 3512 | 9.5 | 131830.5 | -1104.2 | 3602 | 9.5 | 134119.9 | -1136.7 | 3692 | 9.4 | 140541.8 | -1133.6 |
| 3423 | 9.5 | 125558.2 | -1154.8 | 3513 | 9.4 | 131841.6 | -1113.7 | 3603 | 9.8 | 134125.3 | -1101.8 | 3693 | 7.2 | 140556.1 | -1109.3 |
| 3424 | 9.2 | 125603.1 | -1100.4 | 3514 | 9.8 | 131843.3 | -1149.3 | 3604 | 7.7 | 134201.3 | -1149.8 | 3694 | 9.4 | 140623.2 | -1106.5 |
| 3425 | 9.1 | 125607.1 | -1147.9 | 3515 | 9.2 | 131900.3 | -1117.3 | 3605 | 9.3 | 134222.6 | -1157.8 | 3695 | 9.5 | 140653.3 | -1157.4 |
| 3426 | 9.5 | 125613.3 | -1107.4 | 3516 | 5.2 | 131904.2 | -1157.1 | 3606 | 9.1 | 134222.9 | -1117.4 | 3696 | 7.8 | 140735.5 | -1133.7 |
| 3427 | 9.6 | 125614.0 | -1135.8 | 3517 | 9.5 | 131956.2 | -1134.3 | 3607 | 9.7 | 134310.7 | -1131.4 | 3697 | 8.2 | 140806.5 | -1130.6 |
| 3428 | 9.5 | 125635.4 | -1157.7 | 3518 | 9.1 | 132001.2 | -1127.0 | 3608 | 9.5 | 134313.9 | -1150.0 | 3698 | 10. | 140814.6 | -1150.4 |
| 3429 | 9.3 | 125649.9 | -1109.6 | 3519 | 9.4 | 132025.7 | -1104.7 | 3609 | 9.5 | 134322.1 | -1137.9 | 3699 | 9.8 | 140850.0 | -1132.9 |
| 3430 | 9.8 | 125650.7 | -1133.0 | 3520 | 9.3 | 132029.7 | -1107.6 | 3610 | 8.8 | 134336.3 | -1103.5 | 3700 | 9.3 | 140854.2 | -1106.1 |
| 3431 | 9.7 | 125702.8 | -1126.9 | 3521 | 9.5 | 132041.1 | -1127.2 | 3611 | 8.5 | 134350.2 | -1140.0 | 3701 | 9.7 | 140858.0 | -1115.2 |
| 3432 | 9.7 | 125705.1 | -1126.9 | 3522 | 9.5 | 132045.1 | -1156.8 | 3612 | 9.3 | 134357.0 | -1108.5 | 3702 | 9.7 | 140910.6 | -1112.5 |
| 3433 | 10. | 125742.9 | -1138.1 | 3523 | 8.9 | 132045.4 | -1152.6 | 3613 | 10. | 134411.0 | -1158.2 | 3703 | 9.0 | 140920.5 | -1108.1 |
| 3434 | 9.5 | 125751.6 | -1109.5 | 3524 | 9.7 | 132102.1 | -1140.4 | 3614 | 9.3 | 134443.1 | -1155.0 | 3704 | 9.6 | 140956.2 | -1143.0 |
| 3435 | 9.2 | 125753.8 | -1134.9 | 3525 | 8.9 | 132102.8 | -1137.8 | 3615 | 9.5 | 134458.2 | -1128.9 | 3705 | 9.6 | 141011.2 | -1159.7 |
| 3436 | 8.9 | 125753.9 | -1105.7 | 3526 | 9.4 | 132129.6 | -1138.4 | 3616 | 9.1 | 134458.7 | -1154.3 | 3706 | 9.5 | 141021.7 | -1128.2 |
| 3437 | 9.0 | 125806.4 | -1135.0 | 3527 | 9.0 | 132243.0 | -1119.4 | 3617 | 9.5 | 134501.7 | -1130.1 | 3707 | 9.8 | 141055.7 | -1157.0 |
| 3438 | 9.8 | 125808.9 | -1149.6 | 3528 | 10. | 132331.9 | -1134.4 | 3618 | 9.5 | 134507.5 | -1108.0 | 3708 | 8.8 | 141058.9 | -1107.9 |
| 3439 | 9.8 | 125918.9 | -1155.7 | 3529 | 9.8 | 132349.9 | -1153.6 | 3619 | 9.3 | 134516.6 | -1159.5 | 3709 | 9.0 | 141059.4 | -1155.1 |
| 3440 | 9.7 | 125926.2 | -1123.4 | 3530 | 9.5 | 132358.2 | -1128.6 | 3620 | 9.5 | 134527.5 | -1114.1 | 3710 | 8.7 | 141059.8 | -1142.8 |
| 3441 | 9.7 | 125929.0 | -1113.4 | 3531 | 9.5 | 132413.2 | -1153.3 | 3621 | 9.4 | 134531.6 | -1104.9 | 3711 | 7.8 | 141101.4 | -1123.3 |
| 3442 | 8.5 | 125946.8 | -1153.5 | 3532 | 8.9 | 132417.3 | -1137.7 | 3622 | 9.8 | 134546.0 | -1173.2 | 3712 | 9.8 | 141115.0 | -1121.5 |
| 3443 | 9.3 | 130027.0 | -1113.0 | 3533 | 9.4 | 132426.8 | -1176.2 | 3623 | 8.4 | 134600.1 | -1135.6 | 3713 | 9.8 | 141138.8 | -1148.3 |
| 3444 | 9.6 | 130032.8 | -1149.3 | 3534 | 9.5 | 132435.0 | -1116.2 | 3624 | 9.5 | 134632.7 | -1133.7 | 3714 | 9.3 | 141159.9 | -1124.0 |
| 3445 | 9.5 | 130051.6 | -1149.0 | 3535 | 7.8 | 132443.2 | -1144.9 | 3625 | 9.4 | 134718.6 | -1142.7 | 3715 | 9.8 | 141229.0 | -1125.1 |
| 3446 | 9.3 | 130056.8 | -1144.1 | 3536 | 9.5 | 132445.0 | -1116.1 | 3626 | 8.2 | 134726.8 | -1144.1 | 3716 | 8.3 | 141257.6 | -1141.9 |
| 3447 | 9.1 | 130125.2 | -1109.6 | 3537 | 9.0 | 132447.2 | -1114.9 | 3627 | 9.8 | 134745.6 | -1159.0 | 3717 | 9.5 | 141302.7 | -1154.0 |
| 3448 | 9.0 | 130125.5 | -1147.3 | 3538 | 9.4 | 132453.1 | -1141.6 | 3628 | 7.8 | 134747.6 | -1130.4 | 3718 | 9.9 | 141305.3 | -1103.0 |
| 3449 | 9.5 | 130202.5 | -1109.2 | 3539 | 10. | 132454.9 | -1151.8 | 3629 | 10. | 134758.2 | -1150.3 | 3719 | 10. | 141309.5 | -1102.7 |
| 3450 | 9.7 | 130231.8 | -1136.0 | 3540 | 9.4 | 132457.0 | -1115.4 | 3630 | 9.2 | 134801.6 | -1112.4 | 3720 | 9.4 | 141318.7 | -1156.7 |
| 3451 | 9.5 | 130241.6 | -1119.4 | 3541 | 9.5 | 13250.2  | -1111.8 | 3631 | 9.5 | 134813.7 | -1114.7 | 3721 | 9.1 | 141323.3 | -1110.2 |
| 3452 | 9.0 | 130320.7 | -1158.2 | 3542 | 9.9 | 132622.5 | -1140.8 | 3632 | 9.6 | 134814.4 | -1115.0 | 3722 | 9.8 | 141325.4 | -1103.5 |
| 3453 | 8.3 | 130341.4 | -1109.2 | 3543 | 9.5 | 132629.1 | -1130.8 | 3633 | 9.4 | 134832   |         |      |     |          |         |



-11 3741 14h18m

3741 10. 141844.5 -1146.5  
3742 9.8 141905.1 -1130.3  
3743 9.8 141946.8 -1114.6  
3744 9.4 142014.3 -1115.0  
3745 9.3 142044.3 -1145.0  
3746 9.6 142136.2 -1105.6  
3747 9.8 142150.9 -1159.4  
3748 10. 142154.3 -1119.2  
3749 9.8 142227.7 -1121.6  
3750 9.9 142233.2 -1115.2

3751 10. 142304.0 -1127.7  
3752 10. 142309.2 -1101.0  
3753 8.3 142329.2 -1113.6  
3754 9.5 142432.2 -1117.6  
3755 9.5 142438.3 -1108.5  
3756 9.4 142446.7 -1139.0  
3757 9.5 142448.2 -1112.3  
3758 9.9 142551.3 -1143.2  
3759 10. 142629.4 -1154.0  
3760 9.8 142706.1 -1146.7

3761 9.1 142713.1 -1135.9  
3762 9.4 142714.6 -1124.2  
3763 9.1 142734.1 -1106.8  
3764 9.5 142748.8 -1157.4  
3765 9.1 142811.6 -1137.7  
3766 8.5 142845.7 -1151.2  
3767 8.5 142853.2 -1100.5  
3768 9.5 142858.6 -1104.2  
3769 9.0 142906.8 -1157.4  
3770 6.0 142916.3 -1141.2

3771 9.8 142921.1 -1154.6  
3772 9.9 142928.2 -1110.4  
3773 9.2 142938.6 -1125.1  
3774 9.5 143028.2 -1148.7  
3775 9.3 143042.0 -1105.8  
3776 9.4 143046.3 -1103.5  
3777 10. 143106.2 -1127.6  
3778 9.9 143118.1 -1112.6  
3779 9.2 143153.3 -1129.4  
3780 8.9 143154.3 -1144.6

3781 9.5 143156.1 -1136.5  
3782 9.3 143156.1 -1130.0  
3783 9.0 143207.8 -1157.2  
3784 10. 143222.5 -1113.6  
3785 9.1 143301.6 -1111.6  
3786 9.6 143316.6 -1132.6  
3787 9.5 143316.9 -1141.5  
3788 9.1 143402.5 -1139.5  
3789 7.0 143410.5 -1136.8  
3790 9.7 143411.5 -1105.4

3791 8.4 143429.4 -1131.5  
3792 9.8 143443.9 -1113.0  
3793 8.9 143450.2 -1158.5  
3794 9.5 143527.2 -1145.1  
3795 8.6 143543.5 -1100.0  
3796 9.8 143556.0 -1106.4  
3797 8.3 143626.8 -1100.2  
3798 9.8 143631.9 -1134.7  
3799 9.8 143744.9 -1140.0  
3800 8.4 143752.3 -1144.5

3801 9.8 143817.8 -1140.8  
3802 9.4 143854.6 -1158.4  
3803 9.5 143942.2 -1145.0  
3804 9.4 143942.4 -1141.1  
3805 8.5 143951.3 -1145.6  
3806 9.1 143959.1 -1156.9  
3807 9.7 144004.4 -1115.3  
3808 9.9 144043.9 -1113.5  
3809 9.4 144048.6 -1157.1  
3810 9.5 144049.8 -1120.9

3811 9.9 144208.3 -1148.9  
3812 10. 144209.3 -1127.0  
3813 9.7 144231.1 -1112.8  
3814 7.0 144244.4 -1124.8  
3815 9.8 144250.9 -1139.5  
3816 9.8 144258.9 -1123.0  
3817 9.3 144329.3 -1125.7  
3818 9.8 144348.3 -1128.5  
3819 9.3 144445.8 -1116.3  
3820 9.4 144452.6 -1117.0

3821 7.3 144459.8 -1147.0  
3822 8.5 144524.7 -1138.0  
3823 10. 144543.5 -1115.4  
3824 10. 144558.1 -1150.2  
3825 8.6 144618.9 -1104.9  
3826 9.8 144628.0 -1152.8  
3827 5.8 144630.5 -1118.3  
3828 9.7 144636.5 -1108.4  
3829 10. 144637.4 -1114.0  
3830 10. 144728.3 -1105.0

3831 9.4 144744.7 -1147.2  
3832 9.7 144758.2 -1137.4  
3833 9.1 144758.9 -1144.3  
3834 8.5 144801.2 -1129.3  
3835 9.5 144811.9 -1151.6  
3836 10. 144830.9 -1150.1  
3837 9.8 144831.8 -1140.1  
3838 10. 144850.7 -1144.1  
3839 9.6 144903.2 -1131.2  
3840 9.8 144920.2 -1137.3

3841 7.0 144951.6 -1151.3  
3842 9.8 144955.3 -1110.0  
3843 9.5 145015.8 -1155.5  
3844 9.1 145037.9 -1153.1  
3845 9.9 145042.4 -1157.1  
3846 10. 145107.7 -1157.1  
3847 10. 145120.0 -1133.7  
3848 10. 145121.9 -1136.7  
3849 9.5 145130.7 -1118.6  
3850 9.4 145133.1 -1121.6

3851 9.2 145216.2 -1116.0  
3852 9.8 145227.1 -1133.0  
3853 9.4 145238.3 -1152.2  
3854 8.0 145238.7 -1117.8  
3855 9.7 145244.0 -1142.3  
3856 9.8 145306.1 -1133.5  
3857 9.0 145346.8 -1152.0  
3858 8.6 145349.9 -1144.6  
3859 9.6 145408.1 -1140.7  
3860 9.0 145412.2 -1109.6

3861 10. 145413.8 -1135.7  
3862 9.0 145426.2 -1110.3  
3863 9.6 145435.0 -1143.4  
3864 9.5 145435.5 -1104.8  
3865 9.7 145440.4 -1150.5  
3866 9.5 145502.5 -1103.9  
3867 9.2 145603.6 -1118.0  
3868 10. 145618.7 -1159.1  
3869 9.2 145625.8 -1128.5  
3870 9.3 145634.0 -1132.0

3871 9.4 145640.4 -1156.2  
3872 9.4 145641.7 -1157.2  
3873 8.3 145646.8 -1106.1  
3874 8.6 145701.8 -1149.7  
3875 9.8 145714.9 -1148.6  
3876 9.4 145736.2 -1157.8  
3877 9.8 145810.1 -1107.3  
3878 9.5 145821.6 -1106.8  
3879 9.8 145907.5 -1137.2  
3880 9.1 150004.0 -1105.9

3881 7.5 150012.4 -1129.5  
3882 9.5 150023.8 -1105.2  
3883 9.9 150028.1 -1155.6  
3884 10. 150039.5 -1151.0  
3885 8.8 150046.0 -1110.2  
3886 7.8 150101.4 -1114.3  
3887 10. 150111.8 -1149.5  
3888 9.5 150127.4 -1137.8  
3889 9.7 150130.1 -1145.9  
3890 9.9 150130.9 -1141.3

3891 8.8 150145.0 -1101.2  
3892 8.8 150206.9 -1135.8  
3893 9.7 150208.1 -1122.3  
3894 9.8 150212.4 -1142.3  
3895 9.4 150212.6 -1131.7  
3896 9.4 150216.7 -1100.2  
3897 9.6 150217.3 -1153.4  
3898 8.7 150240.4 -1140.6  
3899 9.0 150258.2 -1142.2  
3900 9.3 150343.9 -1131.8

3901 9.8 150346.1 -1156.6  
3902 9.8 150400.0 -1119.7  
3903 9.8 150403.4 -1132.4  
3904 8.7 150445.2 -1150.1  
3905 9.8 150502.9 -1111.2  
3906 9.5 150514.0 -1156.8  
3907 9.2 150522.4 -1127.0  
3908 9.7 150543.8 -1140.2  
3909 8.3 150550.5 -1150.3  
3910 9.3 150637.9 -1144.6

3911 9.1 150713.8 -1130.7  
3912 9.9 150832.5 -1113.5  
3913 9.5 150833.2 -1155.5  
3914 9.5 150852.4 -1104.5  
3915 9.0 150859.6 -1100.9  
3916 9.8 150917.7 -1101.4  
3917 9.7 151011.5 -1100.2  
3918 9.5 151022.4 -1154.6  
3919 9.8 151055.9 -1145.9  
3920 9.6 151100.8 -1151.7

3921 9.0 151129.0 -1105.8  
3922 9.5 151131.9 -1144.7  
3923 9.0 151145.3 -1127.8  
3924 9.3 151201.9 -1140.1  
3925 9.7 151214.7 -1138.8  
3926 8.9 151225.9 -1139.7  
3927 9.2 151227.4 -1114.0  
3928 9.5 151229.8 -1158.5  
3929 9.8 151234.2 -1131.7  
3930 9.8 151258.1 -1100.1

3931 8.3 151334.7 -1133.7  
3932 8.2 151343.5 -1102.3  
3933 9.6 151410.6 -1151.4  
3934 9.8 151427.5 -1141.6  
3935 9.8 151506.6 -1132.3  
3936 9.7 151517.4 -1105.3  
3937 9.0 151536.8 -1146.7  
3938 9.5 151539.4 -1118.0  
3939 9.7 151555.1 -1116.0  
3940 6.0 151555.4 -1150.8

3941 9.8 151559.5 -1121.2  
3942 9.0 151709.5 -1108.0  
3943 9.8 151740.4 -1149.9  
3944 8.2 151810.1 -1111.3  
3945 9.5 151821.5 -1148.4  
3946 9.2 151828.4 -1139.9  
3947 9.0 151848.3 -1149.3  
3948 9.0 151859.0 -1128.1  
3949 8.9 151937.9 -1147.3  
3950 9.3 151949.7 -1118.4

3951 9.7 152005.0 -1142.5  
3952 8.4 152128.6 -1113.7  
3953 9.5 152140.1 -1128.2  
3954 9.6 152211.7 -1143.4  
3955 8.9 152221.3 -1140.9  
3956 10. 152238.6 -1154.0  
3957 9.1 152239.4 -1147.1  
3958 9.6 152251.3 -1140.2  
3959 9.2 152307.4 -1121.7  
3960 9.2 152333.0 -1126.7

3961 9.5 152338.5 -1131.1  
3962 9.5 152417.6 -1104.7  
3963 9.3 152438.6 -1152.6  
3964 9.0 152531.2 -1113.7  
3965 10. 152536.7 -1154.5  
3966 9.5 152552.6 -1152.8  
3967 9.2 152624.3 -1141.7  
3968 9.9 152629.7 -1134.1  
3969 8.6 152639.5 -1121.8  
3970 9.8 152716.8 -1111.7

3971 9.4 152718.7 -1122.5  
3972 9.1 152723.8 -1131.8  
3973 9.0 152725.3 -1111.7  
3974 9.3 152738.5 -1100.8  
3975 9.0 152740.0 -1153.4  
3976 10. 152801.9 -1126.2  
3977 9.0 152830.4 -1131.2  
3978 9.6 153014.5 -1119.7  
3979 9.3 153020.4 -1122.2  
3980 9.2 153023.9 -1122.0

3981 10. 153047.4 -1142.0  
3982 9.4 153108.1 -1100.8  
3983 9.3 153108.3 -1146.4  
3984 9.4 153123.7 -1141.1  
3985 9.5 153138.3 -1142.6  
3986 8.6 153159.8 -1143.4  
3987 9.3 153228.2 -1133.5  
3988 8.9 153246.8 -1147.3  
3989 8.5 153312.4 -1124.0  
3990 9.4 153337.0 -1132.2

3991 9.2 153343.3 -1144.0  
3992 9.4 153432.4 -1104.6  
3993 9.8 153525.1 -1134.4  
3994 9.8 153528.6 -1133.1  
3995 9.5 153539.6 -1120.8  
3996 10. 153547.6 -1143.8  
3997 8.9 153608.4 -1136.0  
3998 9.0 153617.7 -1130.1  
3999 10. 153620.3 -1137.0  
4000 9.5 153634.5 -1139.4

4001 9.3 153801.2 -1134.3  
4002 9.9 153802.7 -1118.0  
4003 9.3 153822.7 -1114.2  
4004 9.2 153824.6 -1147.9  
4005 9.5 153835.5 -1140.9  
4006 9.0 153847.1 -1105.8  
4007 9.3 153849.2 -1127.8  
4008 9.6 153907.1 -1152.0  
4009 9.1 153913.1 -1146.2  
4010 8.0 153920.1 -1146.1

-11 4100 16h06m

4011 10. 153954.2 -1102.3  
4012 9.5 154035.7 -1130.1  
4013 9.7 154129.7 -1141.4  
4014 8.2 154215.6 -1107.6  
4015 9.8 154223.2 -1100.7  
4016 9.5 154241.0 -1122.5  
4017 9.0 154256.2 -1135.1  
4018 9.4 154318.4 -1158.8  
4019 9.7 154415.4 -1138.0  
4020 8.9 154415.7 -1135.9

4021 9.7 154418.8 -1143.2  
4022 9.8 154424.4 -1154.0  
4023 10. 154432.9 -1145.5  
4024 9.5 154457.0 -1143.5  
4025 8.8 154502.7 -1123.7  
4026 9.0 154506.8 -1158.0  
4027 9.5 154550.6 -1112.1  
4028 9.0 154557.3 -1141.0  
4029 9.5 154607.1 -1131.3  
4030 9.5 154631.2 -1136.3

4031 9.3 154637.9 -1104.4  
4032 9.4 154638.6 -1150.5  
4033 9.5 154659.1 -1133.4  
4034 9.6 154731.0 -1152.7  
4035 10. 154734.3 -1151.8  
4036 9.6 154833.1 -1135.7  
4037 9.4 154904.0 -1103.1  
4038 9.7 154954.5 -1143.3  
4039 9.8 155012.4 -1151.1  
4040 9.3 155028.9 -1111.5

4041 10. 155112.3 -1151.6  
4042 9.8 155113.4 -1156.7  
4043 9.8 155121.5 -1157.7  
4044 7.7 155257.2 -1155.5  
4045 9.5 155310.5 -1111.7  
4046 9.8 155317.6 -1123.3  
4047 9.0 155318.8 -1144.3  
4048 9.0 155339.3 -1131.7  
4049 8.4 155401.5 -1110.0  
4050 10. 155413.2 -1147.1

4051 9.0 155423.1 -1121.0  
4052 9.2 155425.6 -1113.6  
4053 10. 155504.7 -1152.9  
4054 9.8 155547.3 -1142.1  
4055 9.3 155559.6 -1119.0  
4056 7.3 155625.7 -1127.3  
4057 7.6 155627.4 -1102.9  
4058 8.2 155628.1 -1103.0  
4059 9.8 155646.2 -1149.9  
4060 8.5 155705.3 -1114.2

4061 9.9 155708.7 -1148.6  
4062 9.5 155755.5 -1112.9  
4063 9.3 155800.9 -1123.3  
4064 8.0 155805.6 -1154.9  
4065 9.6 155806.0 -1115.2  
4066 8.8 155819.1 -1154.6  
4067 8.3 155822.4 -1144.3  
4068 7.5 155835.2 -1130.6  
4069 9.7 155851.1 -1155.3  
4070 8.7 155855.3 -1108.2

4071 9.1 155859.6 -1154.2  
4072 9.4 155903.8 -1143.0  
4073 8.4 155933.9 -1110.4  
4074 8.0 155943.5 -1131.6  
4075 9.5 155954.6 -1150.3  
4076 9.6 160012.1 -1152.1  
4077 9.3 160024.8 -1159.0  
4078 9.5 160034.9 -1140.5  
4079 8.9 160101.6 -1157.2  
4080 9.0 160119.8 -1110.1

4081 7.8 160120.4 -1158.7  
4082 9.0 160149.6 -1155.9  
4083 9.1 160209.7 -1114.5  
4084 9.5 160239.8 -1152.3  
4085 9.5 160240.6 -1143.5  
4086 8.7 160253.2 -1141.4  
4087 8.7 160321.5 -1123.4  
4088 9.5 160331.9 -1156.5  
4089 9.5 160405.7 -1139.4  
4090 9.5 160424.5 -1144.7

4091 9.4 160430.3 -1127.0  
4092 8.7 160444.4 -1158.6  
4093 10. 160513.5 -1119.1  
4094 9.3 160520.9 -1126.9  
4095 10. 160546.3 -1140.8  
4096 5.8 160549.7 -1121.4  
4097 8.5 160603.8 -1121.4  
4098 9.4 160603.8 -1129.5  
4099 9.4 160606.2 -1151.9  
4100 9.3 160655.0 -1100.5



4101 8.5 160658.5 -1120.5  
4102 9.2 160648.0 -1128.5  
4103 9.5 160927.4 -1139.4  
4104 8.8 161003.0 -1141.8  
4105 9.3 161014.9 -1128.9  
4106 9.4 161021.1 -1108.0  
4107 8.9 161029.5 -1133.4  
4108 8.3 161044.7 -1108.6  
4109 9.5 161115.6 -1113.9  
4110 8.6 161137.0 -1146.5

4111 9.0 161149.9 -1135.5  
4112 9.0 161214.4 -1136.0  
4113 9.5 161215.0 -1153.4  
4114 9.3 161227.0 -1151.7  
4115 9.4 161227.8 -1110.7  
4116 9.5 161303.5 -1137.0  
4117 9.3 161306.4 -1140.0  
4118 9.8 161308.2 -1154.4  
4119 9.8 161338.9 -1105.9  
4120 9.5 161402.2 -1100.6

4121 9.1 161407.4 -1105.9  
4122 9.1 161419.4 -1135.8  
4123 9.3 161446.3 -1154.4  
4124 10. 161507.5 -1145.4  
4125 9.3 161525.8 -1140.5  
4126 9.5 161527.4 -1115.1  
4127 9.5 161600.9 -1120.0  
4128 9.3 161604.5 -1113.5  
4129 7.3 161610.7 -1133.7  
4130 9.4 161646.4 -1109.3

4131 9.4 161656.9 -1103.3  
4132 8.6 161701.2 -1132.7  
4133 9.8 161713.3 -1102.9  
4134 9.0 161756.5 -1151.8  
4135 8.2 161818.4 -1109.0  
4136 9.2 161835.1 -1120.6  
4137 10. 161853.8 -1143.2  
4138 9.1 161858.2 -1156.6  
4139 9.6 161901.9 -1150.8  
4140 8.5 161904.3 -1145.7

4141 9.4 161917.4 -1105.6  
4142 9.6 161917.7 -1140.4  
4143 9.3 161922.3 -1140.6  
4144 9.1 161929.4 -1124.6  
4145 9.2 161940.4 -1106.9  
4146 9.5 161944.9 -1108.9  
4147 9.0 162022.4 -1120.6  
4148 9.2 162029.3 -1121.6  
4149 9.0 162046.4 -1156.4  
4150 10. 162047.2 -1148.4

4151 8.6 162107.2 -1142.1  
4152 9.8 162132.8 -1127.2  
4153 9.4 162150.1 -1116.2  
4154 8.3 162150.9 -1142.4  
4155 9.0 162215.3 -1121.8  
4156 9.0 162219.2 -1109.2  
4157 9.4 162226.6 -1158.0  
4158 9.7 162249.4 -1111.5  
4159 8.7 162400.9 -1143.1  
4160 9.8 162402.0 -1100.7

4161 9.2 162425.1 -1103.2  
4162 8.5 162429.9 -1138.4  
4163 9.8 162434.5 -1102.1  
4164 10. 162444.1 -1145.5  
4165 9.5 162505.7 -1157.9  
4166 9.6 162548.5 -1163.9  
4167 9.8 162626.0 -1107.4  
4168 9.8 162637.9 -1130.6  
4169 9.4 162642.6 -1139.4  
4170 9.7 162725.8 -1108.5

4171 9.1 162737.9 -1115.5  
4172 9.1 162812.7 -1125.2  
4173 9.2 162813.2 -1130.1  
4174 9.8 162820.2 -1124.9  
4175 6.7 162914.3 -1102.9  
4176 9.4 162927.0 -1118.9  
4177 7.7 162927.3 -1134.7  
4178 9.9 163003.7 -1121.6  
4179 8.4 163022.7 -1114.7  
4180 9.8 163059.5 -1108.8

4181 8.3 163128.5 -1122.5  
4182 9.5 163132.0 -1140.7  
4183 9.5 163136.1 -1128.4  
4184 10. 163137.9 -1110.5  
4185 9.7 163147.9 -1108.4  
4186 9.2 163205.5 -1123.3  
4187 10. 163228.1 -1124.6  
4188 9.8 163250.4 -1145.7  
4189 9.2 163253.1 -1157.4  
4190 6.5 163305.3 -1133.0

4191 8.7 163328.8 -1129.8  
4192 9.2 163331.4 -1127.4  
4193 9.6 163336.9 -1122.7  
4194 9.5 163424.3 -1143.5  
4195 9.8 163504.3 -1112.5  
4196 9.6 163514.8 -1115.1  
4197 9.4 163525.7 -1127.9  
4198 9.0 163545.3 -1130.5  
4199 9.9 163600.5 -1121.7  
4200 8.8 163608.2 -1143.1

4201 10. 163612.3 -1157.0  
4202 9.5 163612.9 -1121.0  
4203 9.7 163614.1 -1157.2  
4204 8.9 163627.6 -1157.0  
4205 9.4 163631.8 -1104.4  
4206 9.2 163718.3 -1141.5  
4207 9.8 163825.7 -1141.8  
4208 9.8 163831.9 -1156.0  
4209 8.7 163856.3 -1120.9  
4210 9.2 163900.5 -1135.8

4211 9.5 163914.0 -1115.0  
4212 9.5 163923.3 -1111.6  
4213 9.8 164000.1 -1115.2  
4214 9.8 164029.0 -1147.1  
4215 9.1 164056.1 -1108.9  
4216 9.5 164157.7 -1151.2  
4217 8.9 164219.6 -1136.4  
4218 8.5 164226.4 -1103.6  
4219 9.5 164248.9 -1107.2  
4220 9.5 164344.2 -1125.8

4221 9.8 164419.2 -1151.1  
4222 10. 164422.8 -1126.0  
4223 9.5 164442.8 -1159.3  
4224 9.0 164445.9 -1126.9  
4225 9.0 164452.3 -1112.0  
4226 7.4 164507.2 -1125.8  
4227 8.4 164520.0 -1130.9  
4228 9.7 164548.9 -1118.4  
4229 9.2 164612.2 -1149.9  
4230 9.1 164625.7 -1148.9

4231 6.5 164635.8 -1133.0  
4232 9.8 164645.3 -1156.6  
4233 8.8 164645.6 -1118.7  
4234 7.6 164711.0 -1103.7  
4235 8.5 164725.3 -1139.2  
4236 9.7 164725.7 -1133.1  
4237 8.7 164731.7 -1106.4  
4238 8. 164739.8 -1111.4  
4239 9.7 164742.2 -1142.6  
4240 9.7 164747.0 -1147.3

4241 9.7 164749.9 -1113.2  
4242 9.7 164831.6 -1108.3  
4243 10. 164847.4 -1126.2  
4244 10. 164934.2 -1129.6  
4245 9.7 164914.3 -1158.7  
4246 9.5 164927.7 -1113.2  
4247 9.0 164947.0 -1144.2  
4248 9.4 164950.9 -1154.3  
4249 7.2 164957.2 -1150.9  
4250 9.8 165009.2 -1138.7

4251 9.6 165010.2 -1142.0  
4252 9.5 165021.3 -1119.3  
4253 9.5 165037.3 -1131.1  
4254 9.8 165038.9 -1121.1  
4255 9.3 165041.0 -1113.2  
4256 9.0 165041.3 -1150.3  
4257 9.5 165054.0 -1112.8  
4258 9.0 165112.6 -1149.6  
4259 9.7 165114.7 -1100.7  
4260 9.8 165123.1 -1156.6

4261 9.5 165124.1 -1123.5  
4262 10. 165126.7 -1100.6  
4263 9.9 165130.0 -1131.6  
4264 9.6 165153.4 -1154.0  
4265 9.7 165204.4 -1152.9  
4266 9.4 165206.4 -1140.8  
4267 9.7 165206.9 -1146.4  
4268 9.0 165208.4 -1131.6  
4269 9.6 165211.3 -1146.6  
4270 9.2 165250.8 -1151.4

4271 9.5 165254.6 -1101.8  
4272 9.5 165259.9 -1103.3  
4273 9.8 165310.1 -1122.6  
4274 9.7 165219.3 -1145.0  
4275 9.4 165345.5 -1123.6  
4276 9.4 165345.6 -1152.2  
4277 9.2 165346.4 -1138.0  
4278 9.0 165409.4 -1137.5  
4279 9.7 165421.3 -1138.2  
4280 8.4 165419.8 -1141.0

4281 9.3 165422.4 -1141.7  
4282 9.6 165423.0 -1143.3  
4283 9.2 165442.2 -1109.9  
4284 9.2 165452.5 -1126.3  
4285 9.6 165504.1 -1142.8  
4286 9.5 165605.4 -1106.6  
4287 9.5 165633.0 -1105.4  
4288 9.4 165652.1 -1159.6  
4289 10. 165657.5 -1149.2  
4290 9.4 165658.7 -1150.7

4291 9.5 165713.2 -1143.3  
4292 9.0 165745.6 -1126.3  
4293 9.0 165749.8 -1106.2  
4294 9.3 165751.6 -1153.7  
4295 9.3 165803.9 -1122.0  
4296 9.0 165833.1 -1134.9  
4297 9.8 165837.2 -1118.0  
4298 9.3 165850.7 -1106.7  
4299 8.8 165916.0 -1159.0  
4300 9.8 165921.4 -1137.8

4301 9.8 165945.4 -1154.1  
4302 9.4 170009.7 -1111.9  
4303 9.3 170015.5 -1115.7  
4304 7.1 170020.3 -1150.3  
4305 8.8 170051.2 -1117.5  
4306 9.8 170059.2 -1143.4  
4307 9.5 170150.1 -1124.9  
4308 9.5 170152.1 -1119.6  
4309 9.9 170155.7 -1145.5  
4310 9.9 170224.2 -1148.4

4311 9.8 170233.6 -1135.6  
4312 9.1 170243.8 -1133.8  
4313 9.3 170300.8 -1152.0  
4314 9.4 170311.1 -1133.8  
4315 9.0 170356.1 -1127.3  
4316 8.7 170416.6 -1125.7  
4317 10. 170429.7 -1122.4  
4318 9.5 170438.3 -1151.9  
4319 9.0 170502.0 -1144.2  
4320 9.8 170525.9 -1148.1

4321 8.7 170529.7 -1105.9  
4322 9.7 170538.4 -1147.4  
4323 9.0 170554.3 -1125.7  
4324 9.3 170554.5 -1118.9  
4325 9.4 170728.2 -1135.1  
4326 9.6 170735.3 -1143.3  
4327 9.8 170742.6 -1156.7  
4328 9.2 170754.4 -1101.9  
4329 9.8 170802.7 -1118.0  
4330 9.5 170803.3 -1136.5

4331 9.4 170835.1 -1125.7  
4332 9.8 170856.8 -1159.1  
4333 9.4 170906.3 -1102.3  
4334 9.5 170912.5 -1142.8  
4335 9.4 170935.1 -1158.0  
4336 9.7 170951.2 -1147.8  
4337 9.3 171028.1 -1120.9  
4338 9.8 171046.5 -1129.5  
4339 9.7 171048.5 -1141.0  
4340 9.8 171102.6 -1115.8

4341 7.4 171104.1 -1149.8  
4342 9.8 171127.2 -1114.0  
4343 9.4 171144.7 -1127.6  
4344 8.0 171148.1 -1111.7  
4345 8.8 171200.8 -1124.2  
4346 9.8 171213.6 -1148.1  
4347 9.8 171216.6 -1106.6  
4348 8.3 171216.7 -1128.5  
4349 7.8 171221.0 -1127.9  
4350 9.2 171231.6 -1118.0

4351 9.8 171238.2 -1140.5  
4352 8.8 171255.1 -1123.7  
4353 9.8 171300.0 -1131.7  
4354 7.3 171306.3 -1154.5  
4355 7.8 171316.2 -1147.9  
4356 10. 171316.6 -1100.6  
4357 9.5 171319.2 -1118.4  
4358 9.8 171327.9 -1144.8  
4359 9.8 171401.6 -1157.7  
4360 9.4 171405.6 -1104.5

4361 9.3 171457.0 -1122.1  
4362 9.7 171523.9 -1132.7  
4363 9.8 171525.6 -1109.0  
4364 10. 171535.8 -1129.8  
4365 9.7 171537.0 -1125.5  
4366 9.7 171555.4 -1150.3  
4367 7.9 171559.2 -1133.1  
4368 9.5 171606.7 -1113.0  
4369 9.0 171639.9 -1145.4  
4370 9.5 171642.6 -1129.8

4371 9.8 171654.0 -1154.3  
4372 9.1 171738.8 -1150.3  
4373 9.8 171816.2 -1100.3  
4374 9.8 171818.3 -1122.0  
4375 9.8 171830.0 -1123.8  
4376 9.1 171845.6 -1124.0  
4377 8.8 171846.2 -1132.8  
4378 9.6 171859.1 -1114.8  
4379 10. 171931.0 -1136.0  
4380 8.4 171945.0 -1151.2

4381 9.4 172033.2 -1122.6  
4382 9.5 172038.3 -1130.7  
4383 9.5 172041.2 -1134.5  
4384 9.1 172052.7 -1132.3  
4385 8.3 172055.0 -1155.0  
4386 9.8 172131.9 -1102.4  
4387 9.5 172144.8 -1117.3  
4388 7.9 172145.6 -1101.2  
4389 9.4 172152.3 -1129.1  
4390 8.5 172214.5 -1130.3

4391 9.1 172243.5 -1115.2  
4392 9.3 172256.0 -1139.5  
4393 9.3 172256.3 -1104.4  
4394 8.9 172304.3 -1114.0  
4395 9.7 172314.2 -1134.4  
4396 9.8 172314.7 -1125.7  
4397 8.3 172330.1 -1143.0  
4398 9.3 172335.8 -1121.1  
4399 9.2 172344.6 -1145.1  
4400 10. 172354.5 -1145.1

4401 8.4 172406.8 -1150.4  
4402 9.4 172423.7 -1100.1  
4403 8.0 172444.9 -1108.7  
4404 9.1 172446.2 -1145.0  
4405 9.4 172524.3 -1141.4  
4406 9.6 172558.2 -1121.5  
4407 10. 172610.4 -1159.1  
4408 9.4 172620.0 -1104.1  
4409 9.5 172639.8 -1155.8  
4410 9.0 172640.1 -1108.5

4411 6.0 172642.1 -1108.2  
4412 9.3 172647.8 -1142.6  
4413 8.6 172647.9 -1135.8  
4414 8.5 172718.2 -1126.2  
4415 9.6 172744.5 -1147.0  
4416 9.4 172745.5 -1145.7  
4417 8.7 172802.9 -1155.1  
4418 9.3 172805.2 -1152.7  
4419 8.5 172842.4 -1159.4  
4420 9.4 172845.6 -1144.0

4421 9.1 172907.6 -1127.6  
4422 9.8 172919.0 -1101.5  
4423 9.4 172930.7 -1127.7  
4424 9.6 173021.3 -1105.9  
4425 9.0 173032.1 -1125.8  
4426 9.2 173035.0 -1144.4  
4427 9.5 173045.4 -1132.3  
4428 9.1 173045.4 -1121.4  
4429 9.4 173118.4 -1125.2  
4430 7.8 173124.5 -1110.8

4431 8.8 173129.7 -1101.5  
4432 9.2 173141.9 -1125.5  
4433 8.9 173142.1 -1145.4  
4434 9.8 173149.4 -1141.3  
4435 8.0 173149.9 -1122.8  
4436 9.3 173225.9 -1159.9  
4437 9.3 173249.7 -1127.5  
4438 9.3 173315.4 -1156.2  
4439 9.7 173317.2 -1104.7  
4440 9.8 173407.3 -1118.1

4441 9.8 173423.0 -1147.4  
4442 9.6 173437.6 -1129.8  
4443 9.4 173440.1 -1133.4  
4444 9.1 173512.2 -1141.7  
4445 9.5 173516.2 -1113.3  
4446 9.4 173523.9 -1122.7  
4447 9.9 173526.8 -1136.7  
4448 9.9 173526.9 -1143.0  
4449 9.0 173531.0 -1142.3  
4450 9.7 173614.4 -1143.8

4451 8.9 173616.7 -1157.2  
4452 9.7 173636.1 -1121.1  
4453 9.1 173644.0 -1114.3  
4454 8.9 173648.6 -1141.7  
4455 9.1 173703.1 -1146.8  
4456 8.5 173735.0 -1131.0  
4457 9.1 173819.5 -1149.1  
4458 9.4 173828.7 -1142.3  
4459 9.3 174028.1 -1151.6  
4460 7.8 174100.6 -1117.3



-11 4461 17h41m

4461 9.4 174105.9 -1137.7  
4462 9.0 174109.0 -1138.6  
4463 8.8 174128.5 -1150.9  
4464 9.4 174149.0 -1153.1  
4465 9.5 174208.0 -1156.5  
4466 8.9 174228.5 -1144.9  
4467 9.6 174249.2 -1157.8  
4468 9.6 174253.8 -1130.0  
4469 9.6 174253.8 -1149.3  
4470 9.8 174308.9 -1154.4

4471 8.6 174353.1 -1116.9  
4472 9.5 174430.5 -1128.1  
4473 9.5 174502.4 -1141.0  
4474 9.8 174532.9 -1142.3  
4475 6.5 174603.1 -1118.0  
4476 9.8 174604.0 -1144.7  
4477 9.1 174604.4 -1138.3  
4478 6.8 174650.5 -1136.0  
4479 9.5 174700.7 -1111.2  
4480 9.5 174718.2 -1100.5

4481 9.0 174722.1 -1154.8  
4482 8.8 174752.2 -1131.4  
4483 9.1 174812.9 -1113.7  
4484 9.4 174821.6 -1101.6  
4485 9.5 174831.5 -1134.0  
4486 8.3 174833.3 -1154.1  
4487 9.1 174839.9 -1100.2  
4488 9.8 174903.2 -1113.9  
4489 9.4 174921.2 -1129.8  
4490 7.7 174931.9 -1130.6

4491 8.3 174938.3 -1139.8  
4492 9.1 174940.1 -1114.0  
4493 9.3 174944.6 -1101.2  
4494 9.4 174957.7 -1128.5  
4495 8.8 175002.7 -1155.5  
4496 9.1 175026.4 -1159.8  
4497 10. 175032.0 -1166.4  
4498 8.1 175034.0 -1150.8  
4499 9.4 175036.5 -1140.4  
4500 9.7 175040.6 -1100.6

4501 8.9 175041.2 -1144.2  
4502 9.4 175050.0 -1122.1  
4503 9.3 175103.8 -1128.1  
4504 9.4 175104.5 -1140.9  
4505 9.4 175111.7 -1157.9  
4506 9.3 175115.0 -1109.4  
4507 8.5 175121.5 -1132.0  
4508 9.1 175206.9 -1115.3  
4509 9.8 175211.6 -1103.8  
4510 8.4 175216.0 -1114.9

4511 9.6 175229.8 -1116.3  
4512 9.8 175252.2 -1141.6  
4513 9.3 175308.1 -1127.6  
4514 9.7 175325.6 -1136.7  
4515 9.1 175330.7 -1154.2  
4516 9.5 175338.6 -1125.3  
4517 9.2 175404.4 -1106.1  
4518 9.5 175421.7 -1101.6  
4519 8.5 175442.3 -1127.9  
4520 9.8 175454.5 -1121.3

4521 9.1 175522.0 -1118.2  
4522 9.8 175525.4 -1170.0  
4523 9.8 175551.8 -1103.7  
4524 9.9 175621.8 -1123.0  
4525 10. 175629.8 -1121.8  
4526 9.5 175650.5 -1116.6  
4527 8.0 175658.1 -1130.5  
4528 9.1 175717.0 -1125.7  
4529 6.8 175726.9 -1101.4  
4530 9.7 175738.4 -1145.9

4531 8.9 175750.2 -1142.9  
4532 9.0 175807.7 -1119.5  
4533 9.4 175811.1 -1136.0  
4534 8.8 175826.7 -1156.7  
4535 8.5 175841.3 -1129.3  
4536 9.3 175844.9 -1136.9  
4537 9.5 175911.6 -1155.6  
4538 9.8 175924.7 -1144.7  
4539 9.8 175942.5 -1123.0  
4540 10. 180030.2 -1136.8

4541 7.1 180052.6 -1145.3  
4542 9.2 180056.6 -1136.5  
4543 9.7 180057.7 -1149.0  
4544 9.3 180112.5 -1121.8  
4545 6.8 180139.6 -1144.6  
4546 8.9 180146.9 -1146.0  
4547 9.4 180209.7 -1148.0  
4548 7.3 180242.4 -1102.0  
4549 9.3 180255.5 -1117.4  
4550 9.2 180300.4 -1106.9

4551 9.8 180310.5 -1126.3  
4552 9.5 180323.1 -1154.4  
4553 9.8 180323.6 -1136.8  
4554 7.2 180324.0 -1119.6  
4555 9.7 180359.8 -1112.1  
4556 9.5 180402.5 -1104.1  
4557 9.0 180423.2 -1122.5  
4558 9.8 180437.9 -1150.5  
4559 9.4 180438.3 -1115.2  
4560 9.1 180509.0 -1115.5

4561 9.1 180513.7 -1126.6  
4562 9.0 180526.1 -1155.5  
4563 9.8 180526.3 -1136.0  
4564 9.3 180536.8 -1130.9  
4565 9.5 180623.2 -1106.7  
4566 8.5 180634.6 -1115.2  
4567 9.9 180651.9 -1151.1  
4568 9.8 180706.7 -1109.2  
4569 9.5 180720.3 -1147.6  
4570 9.3 180729.5 -1123.5

4571 9.5 180733.7 -1156.0  
4572 7.8 180752.1 -1103.3  
4573 7.5 180759.5 -1113.3  
4574 9.7 180803.3 -1143.1  
4575 9.6 180809.4 -1103.4  
4576 9.3 180823.2 -1136.9  
4577 9.8 180829.8 -1146.5  
4578 8.0 180844.2 -1127.1  
4579 9.4 180845.8 -1151.1  
4580 9.8 180911.7 -1132.8

4581 9.8 180917.9 -1148.0  
4582 9.3 180919.3 -1151.8  
4583 8.7 180936.1 -1117.5  
4584 9.4 180941.8 -1109.3  
4585 9.8 180946.4 -1158.3  
4586 8.9 180958.6 -1120.7  
4587 9.5 181000.4 -1157.8  
4588 9.9 181003.9 -1151.7  
4589 9.5 181048.2 -1134.1  
4590 8.6 181049.3 -1103.7

4591 9.3 181051.6 -1119.8  
4592 9.1 181057.7 -1129.0  
4593 8.7 181101.7 -1141.3  
4594 9.4 181122.7 -1100.3  
4595 9.1 181139.5 -1158.2  
4596 7.5 181147.1 -1120.6  
4597 9.6 181211.1 -1150.2  
4598 9.5 181212.2 -1130.2  
4599 9.5 181215.4 -1152.6  
4600 9.1 181215.2 -1120.2

4601 9.8 181213.4 -1142.2  
4602 9.4 18130.6 -1121.9  
4603 9.2 18134.4 -1140.4  
4604 9.3 181372.6 -1145.4  
4605 9.1 181342.0 -1142.2  
4606 7.8 181347.5 -1158.9  
4607 9.1 181349.4 -1143.7  
4608 9.1 181350.3 -1128.2  
4609 9.7 181409.0 -1130.6  
4610 9.7 181413.0 -1146.6

4611 9.5 181423.4 -1152.6  
4612 9.8 181430.6 -1133.9  
4613 8.3 181431.9 -1155.5  
4614 8.9 181446.6 -1140.6  
4615 9.2 181448.4 -1144.1  
4616 8.8 181448.7 -1120.9  
4617 9.5 181454.3 -1127.6  
4618 9.4 181509.8 -1152.0  
4619 9.3 181522.7 -1129.9  
4620 9.4 181523.7 -1159.5

4621 9.8 181557.8 -1147.9  
4622 9.5 181602.4 -1156.2  
4623 9.5 181607.7 -1117.9  
4624 9.0 181610.0 -1117.0  
4625 9.4 181622.1 -1127.6  
4626 8.7 181643.7 -1126.2  
4627 9.6 181647.3 -1133.8  
4628 9.8 181658.6 -1115.4  
4629 9.7 181719.3 -1141.3  
4630 9.1 181829.7 -1142.1

4631 8.0 181836.9 -1126.1  
4632 9.1 181853.9 -1153.9  
4633 9.5 181855.0 -1149.2  
4634 9.0 181857.6 -1129.8  
4635 9.8 181926.1 -1119.7  
4636 9.5 181931.2 -1121.8  
4637 9.8 181938.8 -1145.1  
4638 9.1 181944.9 -1148.9  
4639 10. 181945.1 -1140.2  
4640 9.2 181955.3 -1139.2

4641 9.5 182003.8 -1146.6  
4642 9.0 182008.5 -1110.0  
4643 9.4 182017.3 -1158.9  
4644 9.1 182030.9 -1153.3  
4645 9.4 182044.7 -1147.7  
4646 9.3 182158.9 -1151.8  
4647 9.8 182206.8 -1131.1  
4648 8.5 182209.1 -1132.7  
4649 9.5 182209.3 -1127.7  
4650 9.2 182228.0 -1158.7

4651 9.0 182238.9 -1153.7  
4652 9.5 182246.0 -1141.8  
4653 9.8 182258.3 -1145.3  
4654 9.5 182259.6 -1150.1  
4655 8.3 182305.0 -1159.0  
4656 9.2 182326.1 -1146.8  
4657 9.5 182330.0 -1140.5  
4658 9.6 182333.4 -1143.4  
4659 9.4 182337.0 -1119.5  
4660 9.1 182340.0 -1157.3

4661 9.1 182340.6 -1152.8  
4662 9.7 182354.0 -1120.5  
4663 8.5 182354.3 -1145.0  
4664 9.4 182405.4 -1155.6  
4665 9.1 182407.4 -1151.6  
4666 9.8 182411.8 -1129.7  
4667 9.0 182414.7 -1123.4  
4668 8.9 182433.8 -1126.1  
4669 9.5 182448.0 -1158.3  
4670 9.0 182455.5 -1142.4

4671 9.5 182522.9 -1122.1  
4672 8.8 182526.1 -1144.2  
4673 9.3 182529.1 -1130.9  
4674 9.2 182544.1 -1118.0  
4675 9.3 182553.1 -1140.6  
4676 9.6 182609.8 -1144.7  
4677 9.2 182614.9 -1135.6  
4678 10. 182651.5 -1128.2  
4679 9.5 182652.2 -1101.3  
4680 9.8 182657.2 -1134.0

4681 5.3 182658.9 -1105.1  
4682 9.5 182713.4 -1154.1  
4683 9.5 182739.5 -1147.0  
4684 9.8 182800.0 -1150.5  
4685 9.4 182800.3 -1100.8  
4686 9.3 182843.2 -1110.4  
4687 9.3 182849.0 -1156.8  
4688 9.4 182903.7 -1107.6  
4689 9.5 182904.2 -1159.3  
4690 9.2 182918.2 -1159.4

4691 9.4 182928.4 -1147.3  
4692 8.5 182945.4 -1128.3  
4693 9.5 182954.7 -1101.4  
4694 9.1 183006.3 -1122.0  
4695 9.3 183018.4 -1132.5  
4696 9.2 183024.6 -1107.0  
4697 9.4 183029.8 -1115.5  
4698 9.8 183030.8 -1118.0  
4699 9.2 183059.1 -1145.0  
4700 8.8 183117.2 -1109.1

4701 9.4 183152.6 -1105.7  
4702 7.3 183153.5 -1113.8  
4703 9.7 183210.0 -1100.8  
4704 9.0 183221.0 -1111.3  
4705 9.8 183237.9 -1100.1  
4706 9.1 183307.8 -1108.7  
4707 9.3 183310.3 -1115.0  
4708 9.4 183315.2 -1151.1  
4709 8.5 183336.4 -1130.1  
4710 9.5 183341.3 -1104.4

4711 9.4 183342.9 -1126.4  
4712 9.3 183343.7 -1130.6  
4713 9.6 183350.8 -1111.9  
4714 9.5 183402.0 -1120.6  
4715 9.8 183422.1 -1129.3  
4716 9.0 183422.2 -1133.3  
4717 8.5 183425.4 -1114.6  
4718 9.4 183427.8 -1103.1  
4719 9.5 183438.6 -1145.5  
4720 9.7 183450.7 -1117.7

4721 9.7 183507.3 -1110.7  
4722 9.8 183507.2 -1147.3  
4723 10. 183508.4 -1113.0  
4724 9.6 183518.7 -1158.8  
4725 9.8 183525.9 -1117.1  
4726 6.8 183527.5 -1128.5  
4727 9.4 183529.8 -1111.0  
4728 9.8 183532.2 -1104.4  
4729 8.7 183534.5 -1137.8  
4730 9.1 183549.1 -1153.1

-11 4820 18h48m

4731 9.5 183558.6 -1145.7  
4732 9.5 183603.0 -1142.0  
4733 9.4 183614.4 -1101.7  
4734 9.1 183635.9 -1125.0  
4735 6.8 183700.2 -1136.0  
4736 9.5 183700.8 -1121.1  
4737 9.1 183707.3 -1112.3  
4738 9.4 183722.7 -1101.7  
4739 9.6 183730.3 -1135.5  
4740 9.0 183734.5 -1111.4

4741 9.9 183749.6 -1109.4  
4742 9.0 183751.4 -1115.3  
4743 9.7 183754.7 -1132.1  
4744 9.7 183835.4 -1107.9  
4745 9.7 183840.2 -1132.1  
4746 9.8 183858.2 -1121.2  
4747 9.3 183900.5 -1150.0  
4748 8.4 183909.7 -1122.2  
4749 9.6 183941.4 -1101.7  
4750 9.3 183945.0 -1149.0

4751 9.0 183953.8 -1142.4  
4752 8.9 183955.6 -1116.4  
4753 7.2 184015.7 -1132.9  
4754 9.6 184036.1 -1110.8  
4755 9.8 184039.2 -1109.8  
4756 9.0 184041.1 -1151.8  
4757 8.0 184112.7 -1107.9  
4758 8.0 184121.6 -1156.8  
4759 9.8 184122.8 -1104.4  
4760 8.8 184124.5 -1120.0

4761 9.5 184135.4 -1141.2  
4762 9.1 184129.8 -1135.6  
4763 9.5 184141.4 -1124.2  
4764 8.8 184142.1 -1142.4  
4765 9.5 184142.7 -1114.4  
4766 9.3 184152.2 -1119.6  
4767 9.7 184201.2 -1118.8  
4768 9.4 184201.9 -1103.9  
4769 9.5 184202.4 -1156.5  
4770 9.4 184212.7 -1130.5

4771 9.5 184216.8 -1134.8  
4772 9.3 184224.1 -1116.8  
4773 8.7 184226.4 -1109.8  
4774 9.5 184234.3 -1148.8  
4775 9.1 184301.3 -1143.8  
4776 9.8 184302.4 -1110.3  
4777 9.8 184303.0 -1158.1  
4778 9.7 184303.8 -1133.4  
4779 9.1 184306.1 -1115.6  
4780 9.4 184314.9 -1108.4

4781 9.5 184316.7 -1137.5  
4782 9.4 184335.1 -1156.4  
4783 9.1 184340.5 -1119.2  
4784 9.5 184407.0 -1113.0  
4785 9.8 184409.2 -1130.1  
4786 7.8 184410.9 -1148.0  
4787 9.2 184411.3 -1142.1  
4788 9.5 184419.8 -1104.5  
4789 9.5 184430.1 -1121.0  
4790 9.4 184437.8 -1103.3

4791 9.7 184443.0 -1144.5  
4792 9.5 184451.7 -1120.1  
4793 8.2 184456.0 -1136.5  
4794 9.8 184506.6 -1109.1  
4795 7.8 184510.7 -1131.3  
4796 9.8 184517.0 -1120.4  
4797 9.5 184517.1 -1152.2  
4798 9.8 184522.9 -1133.1  
4799 9.8 184529.5 -1146.7  
4800 9.7 184536.7 -1117.9

4801 9.4 184538.0 -1117.5  
4802 9.7 184601.8 -1138.0  
4803 9.8 184611.2 -1119.9  
4804 7.8 184621.3 -1146.1  
4805 9.0 184624.2 -1149.1  
4806 9.5 184628.5 -1109.9  
4807 9.8 184646.5 -1112.1  
4808 9.8 184657.7 -1126.2  
4809 9.5 184710.1 -1158.8  
4810 9.5 184725.9 -1118.6

4811 9.4 184731.2 -1128.2  
4812 9.2 184733.5 -1102.8  
4813 9.0 184742.6 -1155.4  
4814 9.5 184746.9 -1100.2  
4815 9.1 184753.5 -1112.5  
4816 9.1 184754.8 -1113.0  
4817 9.5 184817.3 -1109.0  
4818 7.2 184820.0 -1120.1  
4819 9.8 184821.4 -1144.4  
4820 8.7 184838.3 -1137.0



-11 4821 18h48m

4821 9.5 184850.2 -1159.3  
4822 9.5 184853.6 -1155.7  
4823 9.1 184930.7 -1123.4  
4824 9.4 184937.7 -1123.6  
4825 9.0 184957.0 -1141.8  
4826 8.8 185009.7 -1100.0  
4827 9.3 185024.2 -1151.1  
4828 9.5 185035.3 -1133.3  
4829 9.0 185050.9 -1138.2  
4830 9.8 185116.8 -1109.5

4831 10. 185125.0 -1108.3  
4832 9.0 185127.0 -1125.6  
4833 9.5 185133.4 -1140.0  
4834 9.7 185139.1 -1114.2  
4835 9.0 185214.2 -1106.7  
4836 9.1 185216.7 -1137.0  
4837 9.0 185223.9 -1106.5  
4838 8.8 185244.6 -1118.1  
4839 9.7 185256.6 -1152.7  
4840 8.9 185322.2 -1117.5

4841 9.8 185332.2 -1153.6  
4842 8.8 185347.6 -1142.4  
4843 9.0 185427.7 -1121.1  
4844 9.4 185432.8 -1158.2  
4845 10. 185437.6 -1140.6  
4846 9.5 185447.7 -1120.8  
4847 9.9 185456.4 -1136.0  
4848 8.9 185502.7 -1119.7  
4849 7.8 185504.2 -1114.6  
4850 9.3 185507.8 -1148.3

4851 9.6 185508.4 -1105.7  
4852 6.7 185509.8 -1123.7  
4853 9.1 185530.2 -1151.3  
4854 9.0 185538.3 -1135.5  
4855 9.3 185545.3 -1135.3  
4856 9.4 185549.2 -1120.0  
4857 9.3 185613.0 -1141.0  
4858 9.5 185627.2 -1155.3  
4859 9.5 185637.2 -1117.0  
4860 9.8 185655.4 -1131.7

4861 9.3 185658.7 -1117.5  
4862 9.5 185701.2 -1114.0  
4863 9.9 185702.3 -1125.5  
4864 9.7 185715.3 -1105.5  
4865 9.3 185716.4 -1146.7  
4866 8.8 185730.4 -1146.2  
4867 9.8 185737.6 -1111.2  
4868 9.0 185738.8 -1129.2  
4869 8.8 185750.2 -1100.2  
4870 8.8 185812.0 -1148.7

4871 7.5 185814.2 -1151.7  
4872 9.5 185830.4 -1131.2  
4873 9.4 185858.4 -1132.5  
4874 9.5 185922.1 -1111.7  
4875 9.0 185941.4 -1132.0  
4876 9.2 185948.2 -1120.6  
4877 9.0 185956.6 -1112.6  
4878 9.5 190016.1 -1103.9  
4879 8.5 190025.8 -1124.9  
4880 9.3 190030.3 -1159.2

4881 8.9 190032.6 -1143.1  
4882 9.0 190113.4 -1134.0  
4883 9.4 190118.2 -1118.0  
4884 9.5 190130.0 -1155.0  
4885 9.0 190131.1 -1107.3  
4886 9.3 190143.9 -1113.9  
4887 9.6 190145.7 -1102.9  
4888 9.3 190156.6 -1113.4  
4889 9.3 190210.3 -1159.4  
4890 9.0 190212.8 -1110.5

4891 9.8 190217.2 -1156.8  
4892 9.1 190220.5 -1141.6  
4893 9.0 190221.1 -1127.5  
4894 9.8 190244.2 -1142.9  
4895 9.2 190247.7 -1129.7  
4896 9.2 190304.7 -1115.6  
4897 9.5 190311.6 -1101.9  
4898 9. 190321.2 -1131.5  
4899 9.6 190340.7 -1100.4  
4900 9.3 190358.8 -1156.5

4901 9.3 190406.8 -1151.8  
4902 9.5 190424.9 -1128.6  
4903 9.5 190426.3 -1127.3  
4904 7.2 190440.3 -1147.2  
4905 9.2 190444.4 -1130.9  
4906 9.4 190504.9 -1153.3  
4907 9.8 190515.8 -1124.6  
4908 9.0 190522.7 -1113.0  
4909 9.0 190524.2 -1114.3  
4910 9.1 190530.1 -1148.7

4911 9.8 190532.5 -1100.2  
4912 8.5 190533.9 -1128.0  
4913 7.3 190551.1 -1126.8  
4914 9.5 190557.2 -1108.8  
4915 9.3 190610.3 -1155.2  
4916 8.8 190633.5 -1144.9  
4917 9.5 190636.1 -1148.2  
4918 8.9 190644.2 -1107.0  
4919 9.4 190652.1 -1109.4  
4920 9.5 190710.2 -1109.0

4921 9.0 190721.6 -1157.6  
4922 10. 190731.8 -1147.8  
4923 9.6 190740.3 -1116.0  
4924 9.3 190747.1 -1154.2  
4925 9.2 190753.9 -1134.4  
4926 9.4 190758.9 -1132.0  
4927 9.0 190815.2 -1159.4  
4928 9.1 190816.0 -1136.1  
4929 7.5 190824.9 -1149.3  
4930 9.3 190830.0 -1135.7

4931 9.0 190833.8 -1132.5  
4932 7.0 190848.6 -1113.8  
4933 9.6 190916.2 -1101.0  
4934 8.9 190921.4 -1149.4  
4935 10. 190929.1 -1103.1  
4936 9.3 190935.5 -1116.6  
4937 9.0 190941.2 -1108.9  
4938 9.0 190944.2 -1114.0  
4939 9.0 190956.1 -1133.5  
4940 8.3 190956.1 -1140.4

4941 9.5 191001.2 -1152.6  
4942 9.8 191008.3 -1124.5  
4943 7.8 191008.5 -1141.8  
4944 9.7 191011.6 -1147.3  
4945 9.5 191015.1 -1105.8  
4946 9.0 191033.4 -1138.4  
4947 9.0 191045.2 -1107.5  
4948 8.3 191050.1 -1108.7  
4949 9.5 191056.3 -1155.6  
4950 8.3 191057.7 -1110.9

4951 9.8 191103.4 -1131.2  
4952 9.5 191111.7 -1140.4  
4953 9.4 191114.4 -1102.9  
4954 8.5 191143.0 -1137.6  
4955 9.3 191152.8 -1150.8  
4956 9.5 191220.0 -1151.8  
4957 9.7 191225.0 -1102.2  
4958 9.7 191232.1 -1140.9  
4959 9.6 191236.5 -1101.2  
4960 9.0 191241.5 -1133.1

4961 7.2 191248.9 -1133.9  
4962 9.4 191249.1 -1123.0  
4963 9.0 191325.3 -1118.5  
4964 9.0 191330.8 -1112.7  
4965 9.8 191335.7 -1134.2  
4966 9.4 191344.7 -1147.3  
4967 9.5 191354.0 -1142.0  
4968 9.4 191403.4 -1130.6  
4969 9.0 191417.4 -1131.1  
4970 9.5 191428.0 -1115.8

4971 9.0 191431.0 -1112.9  
4972 7.5 191431.8 -1153.5  
4973 10. 191505.3 -1116.5  
4974 9.8 191505.8 -1119.6  
4975 9.8 191513.4 -1135.8  
4976 10. 191521.3 -1130.9  
4977 9.4 191529.4 -1148.5  
4978 9.4 191538.5 -1134.6  
4979 9.9 191540.8 -1119.7  
4980 9.7 191545.3 -1132.9

4981 9.0 191605.5 -1134.0  
4982 9.8 191607.7 -1112.9  
4983 9.7 191629.1 -1103.1  
4984 9.5 191643.7 -1111.7  
4985 9.5 191705.9 -1125.0  
4986 8.2 191715.5 -1147.2  
4987 8.9 191718.2 -1104.1  
4988 9.8 191731.0 -1119.6  
4989 9.5 191735.3 -1116.7  
4990 8.9 191747.8 -1130.0

4991 9.0 191752.7 -1104.7  
4992 8.5 191758.6 -1133.1  
4993 9.4 191803.5 -1129.9  
4994 9.5 191805.5 -1150.8  
4995 9.4 191807.3 -1152.8  
4996 9.6 191813.2 -1152.5  
4997 8.2 191815.1 -1154.1  
4998 9.2 191832.4 -1145.1  
4999 8.8 191836.9 -1122.6  
5000 9.5 191842.8 -1114.1

5001 9.5 191846.7 -1105.0  
5002 9.9 191900.0 -1134.0  
5003 8.9 191906.1 -1140.2  
5004 9.4 191908.8 -1113.0  
5005 9.8 191926.7 -1107.3  
5006 9.6 192002.3 -1106.4  
5007 9.6 192003.7 -1136.5  
5008 9.9 192023.2 -1103.6  
5009 8.8 192025.5 -1126.7  
5010 9.5 192025.9 -1128.2

5011 9.4 192032.8 -1152.0  
5012 9.1 192057.2 -1151.5  
5013 9.4 192103.9 -1154.7  
5014 9.0 192128.4 -1118.8  
5015 8.5 192147.4 -1119.5  
5016 9.5 192150.1 -1143.1  
5017 9.4 192158.6 -1100.9  
5018 8.5 192201.9 -1114.2  
5019 9.3 192205.9 -1121.7  
5020 9.5 192221.9 -1117.8

5021 9.8 192227.6 -1141.3  
5022 9.1 192231.8 -1152.0  
5023 9.1 192234.5 -1132.9  
5024 10. 192235.1 -1115.9  
5025 6.8 192254.8 -1147.2  
5026 9.0 192310.2 -1118.7  
5027 9.4 192322.3 -1111.4  
5028 9.7 192332.3 -1106.2  
5029 9.6 192359.7 -1106.5  
5030 7.3 192401.6 -1134.5

5031 9.5 192413.4 -1126.1  
5032 9.0 192418.5 -1111.0  
5033 10. 192418.8 -1108.5  
5034 9.6 192430.3 -1153.8  
5035 9.4 192432.3 -1148.2  
5036 9.6 192501.9 -1159.1  
5037 8.5 192520.4 -1141.0  
5038 9.3 192527.2 -1150.0  
5039 9.2 192530.2 -1150.7  
5040 9.1 192543.4 -1154.3

5041 9.5 192556.1 -1149.6  
5042 9.5 192606.5 -1121.8  
5043 9.5 192611.7 -1148.4  
5044 8.6 192623.1 -1135.5  
5045 9.5 192638.8 -1127.3  
5046 9.9 192643.6 -1121.4  
5047 10. 192646.2 -1134.9  
5048 8.4 192649.0 -1129.0  
5049 9.5 192651.7 -1158.4  
5050 8.8 192725.0 -1105.6

5051 9.5 192812.7 -1146.1  
5052 9.3 192831.0 -1157.5  
5053 9.6 192832.9 -1142.6  
5054 8.8 192834.9 -1133.2  
5055 8.9 192839.5 -1141.1  
5056 9.8 192850.5 -1154.4  
5057 9.4 192852.7 -1156.3  
5058 9.8 192909.4 -1120.2  
5059 9.9 192918.6 -1130.6  
5060 9.5 192932.7 -1100.4

5061 9.8 192941.2 -1139.8  
5062 9.0 192945.5 -1120.6  
5063 8.8 192948.6 -1129.3  
5064 9.0 193006.1 -1129.3  
5065 9.4 193009.5 -1116.8  
5066 8.5 193023.6 -1128.2  
5067 9.7 193036.4 -1147.1  
5068 9.9 193037.7 -1138.5  
5069 9.3 193124.3 -1151.2  
5070 10. 193141.1 -1135.4

5071 9.0 193148.2 -1155.5  
5072 9.0 193152.6 -1134.2  
5073 9.5 193200.0 -1118.0  
5074 9.4 193205.2 -1136.3  
5075 8.5 193209.9 -1159.5  
5076 9.3 193215.2 -1149.3  
5077 9.3 193217.7 -1104.2  
5078 8.8 193305.8 -1125.1  
5079 9.2 193325.9 -1145.5  
5080 9.5 193332.8 -1115.7

5081 9.4 193340.5 -1127.6  
5082 9.7 193348.1 -1145.6  
5083 9.5 193350.2 -1148.9  
5084 9.5 193351.7 -1102.2  
5085 8.5 193352.6 -1136.4  
5086 8.5 193354.9 -1155.1  
5087 9.1 193402.0 -1123.5  
5088 9.0 193407.0 -1150.9  
5089 9.5 193424.0 -1119.1  
5090 9.5 193424.4 -1152.4

-11 5180 19h49m

5091 9.2 193430.9 -1146.3  
5092 9.5 193433.6 -1130.2  
5093 9.4 193448.0 -1110.1  
5094 9.5 193453.7 -1138.6  
5095 9.5 193502.9 -1149.3  
5096 8.5 193506.1 -1129.4  
5097 7.8 193511.6 -1100.6  
5098 9.5 193528.0 -1114.9  
5099 9.8 193534.5 -1114.5  
5100 9.5 193605.2 -1144.0

5101 9.5 193611.5 -1119.4  
5102 9.1 193614.6 -1147.8  
5103 9.5 193617.8 -1141.5  
5104 9.8 193621.5 -1117.6  
5105 8.5 193623.8 -1122.1  
5106 8.5 193628.2 -1127.5  
5107 10. 193634.6 -1125.0  
5108 8.2 193642.7 -1132.8  
5109 9.9 193722.1 -1128.0  
5110 9.3 193734.5 -1153.1

5111 9.3 193740.2 -1131.3  
5112 9.4 193744.0 -1159.4  
5113 8.6 193750.0 -1114.1  
5114 9.0 193758.9 -1104.4  
5115 9.2 193807.3 -1101.2  
5116 9.5 193820.9 -1104.0  
5117 8.9 193830.1 -1117.8  
5118 9.8 193839.8 -1119.6  
5119 9.0 193840.4 -1150.0  
5120 10. 193843.3 -1144.2

5121 9.4 193854.2 -1109.7  
5122 9.5 193901.3 -1144.7  
5123 9.0 193903.9 -1105.5  
5124 9.8 193927.5 -1105.4  
5125 9.2 193928.2 -1137.0  
5126 9.8 193933.7 -1115.9  
5127 9.4 193941.2 -1129.3  
5128 9.4 193957.3 -1136.3  
5129 9.3 194023.7 -1144.9  
5130 9.3 194027.0 -1104.4

5131 6.1 194102.9 -1113.8  
5132 9.4 194105.7 -1134.6  
5133 9.2 194106.8 -1112.2  
5134 9.5 194107.0 -1125.8  
5135 10. 194108.7 -1141.9  
5136 9.5 194109.5 -1150.2  
5137 9.8 194111.8 -1145.2  
5138 9.8 194124.5 -1101.7  
5139 9.4 194134.8 -1136.7  
5140 8.8 194137.9 -1120.6

5141 10. 194143.3 -1146.0  
5142 9.9 194144.1 -1137.9  
5143 7.2 194144.8 -1145.9  
5144 7.7 194151.8 -1105.0  
5145 9.5 194224.4 -1135.0  
5146 9.0 194235.0 -1108.7  
5147 9.0 194236.0 -1109.1  
5148 9.4 194240.9 -1148.6  
5149 5.9 194248.0 -1107.3  
5150 9.3 194256.9 -1107.1

5151 9.0 194314.2 -1124.2  
5152 8.8 194319.7 -1139.2  
5153 9.5 194320.0 -1137.9  
5154 9.2 194334.0 -1117.5  
5155 9.5 194340.4 -1131.5  
5156 7.5 194342.5 -1118.4  
5157 9.3 194345.3 -1145.1  
5158 9.8 194346.6 -1139.3  
5159 7.0 194408.2 -1115.1  
5160 7.7 194420.3 -1144.3

5161 9.8 194422.1 -1158.5  
5162 7.8 194426.4 -1119.4  
5163 9.8 194439.3 -1114.8  
5164 9.7 194509.2 -1155.2  
5165 9.8 194524.4 -1119.9  
5166 9.5 194527.9 -1131.5  
5167 9.3 194539.1 -1158.8  
5168 9.0 194539.9 -1118.3  
5169 9.3 194620.3 -1149.9  
5170 9.5 194621.7 -1120.1

5171 9.5 194639.5 -1109.6  
5172 10. 194652.1 -1150.0  
5173 9.4 194712.0 -1104.8  
5174 10. 194731.3 -1120.7  
5175 9.0 194742.2 -1110.8  
5176 9.1 194749.9 -1140.0  
5177 9.2 194806.0 -1123.9  
5178 9.1 194818.9 -1142.1  
5179 9.5 194845.2 -1156.9  
5180 9.8 194914.0 -1113.8



|                           |                           |                           |                            |
|---------------------------|---------------------------|---------------------------|----------------------------|
| 5181 9.5 194940.4 -1135.0 | 5271 9.8 200706.0 -1146.5 | 5361 10. 202525.2 -1123.1 | 5451 9.5 204458.5 -1133.7  |
| 5182 9.3 194951.9 -1139.6 | 5272 9.1 200707.2 -1115.6 | 5362 9.7 202529.1 -1122.5 | 5452 10. 204515.6 -1150.7  |
| 5183 9.8 195017.4 -1140.6 | 5273 9.6 200713.8 -1139.9 | 5363 8.9 202532.7 -1156.1 | 5453 8.4 204534.7 -1111.2  |
| 5184 9.5 195042.0 -1119.4 | 5274 9.1 200723.5 -1136.0 | 5364 9.4 202630.1 -1110.8 | 5454 9.1 204545.6 -1139.8  |
| 5185 10. 195043.9 -1117.2 | 5275 9.8 200736.6 -1109.9 | 5365 8.7 202634.3 -1146.5 | 5455 9.5 204559.1 -1122.6  |
| 5186 9.2 195055.7 -1106.1 | 5276 10. 200736.6 -1112.3 | 5366 9.4 202639.3 -1132.7 | 5456 7.2 204609.2 -1128.3  |
| 5187 8.3 195057.1 -1151.8 | 5277 9.8 200751.5 -1138.9 | 5367 9.3 202639.6 -1156.0 | 5457 10. 204616.1 -1124.6  |
| 5188 9.8 195111.2 -1126.1 | 5278 9.3 200811.3 -1129.0 | 5368 9.5 202647.1 -1124.0 | 5458 9.5 204616.1 -1135.4  |
| 5189 9.5 195124.5 -1130.1 | 5279 9.8 200819.9 -1159.8 | 5369 9.3 202649.6 -1124.0 | 5459 9.4 204619.6 -1128.9  |
| 5190 9.5 195127.7 -1122.5 | 5280 9.1 200824.6 -1112.3 | 5370 8.4 202722.8 -1150.3 | 5460 8.9 204632.1 -1122.4  |
| 5191 9.1 195145.6 -1107.7 | 5281 9.0 200828.4 -1141.5 | 5371 9.8 202741.6 -1143.4 | 5461 8.9 204634.8 -1145.4  |
| 5192 9.5 195153.0 -1142.5 | 5282 9.8 200831.6 -1126.4 | 5372 9.5 202748.6 -1107.7 | 5462 9.7 204644.2 -1151.6  |
| 5193 9.5 195159.9 -1140.7 | 5283 9.2 200848.1 -1123.5 | 5373 9.8 202801.3 -1141.4 | 5463 8.0 204729.1 -1152.0  |
| 5194 8.2 195242.3 -1152.4 | 5284 9.5 200852.5 -1142.9 | 5374 10. 202803.1 -1114.6 | 5464 9.8 204735.7 -1139.6  |
| 5195 10. 195251.9 -1109.4 | 5285 8.7 200859.9 -1125.0 | 5375 9.8 202810.0 -1116.0 | 5465 9.0 204744.9 -1125.6  |
| 5196 9.7 195251.9 -1149.4 | 5286 9.3 200905.1 -1132.7 | 5376 8.9 202844.6 -1108.0 | 5466 9.5 204749.3 -1115.3  |
| 5197 9.0 195253.5 -1155.9 | 5287 9.3 200913.9 -1158.1 | 5377 9.1 202853.0 -1106.2 | 5467 9.8 204750.0 -1103.5  |
| 5198 9.3 195304.2 -1124.8 | 5288 9.5 200929.1 -1117.3 | 5378 8.9 202920.8 -1134.5 | 5468 9.2 204756.2 -1135.9  |
| 5199 7.5 195317.6 -1110.5 | 5289 9.9 200945.0 -1128.4 | 5379 7.0 203000.1 -1131.8 | 5469 9.5 204803.2 -1135.2  |
| 5200 9.5 195329.5 -1159.0 | 5290 7.7 201007.0 -1102.7 | 5380 9.5 203031.9 -1115.0 | 5470 9.3 204803.7 -1120.0  |
| 5201 9.1 195329.6 -1113.7 | 5291 9.6 201010.6 -1118.0 | 5381 9.5 203102.7 -1116.4 | 5471 9.5 204823.2 -1141.2  |
| 5202 9.5 195334.5 -1133.9 | 5292 9.6 201036.7 -1112.0 | 5382 9.8 203126.9 -1117.0 | 5472 9.4 204829.2 -1151.3  |
| 5203 9.7 195346.8 -1149.6 | 5293 9.9 201045.4 -1149.0 | 5383 9.7 203143.4 -1104.6 | 5473 9.5 204838.8 -1120.4  |
| 5204 9.5 195424.0 -1134.7 | 5294 9.6 201054.0 -1101.0 | 5384 9.5 203200.8 -1125.1 | 5474 9.2 204858.5 -1109.3  |
| 5205 9.5 195426.1 -1110.5 | 5295 7.8 201108.2 -1114.9 | 5385 9.8 203215.5 -1126.4 | 5475 9.7 204902.2 -1158.5  |
| 5206 9.8 195430.0 -1148.7 | 5296 9.3 201132.9 -1145.7 | 5386 10. 203231.8 -1133.1 | 5476 9.8 204911.2 -1144.9  |
| 5207 8.5 195437.7 -1157.8 | 5297 9.4 201134.9 -1104.1 | 5387 9.5 203253.6 -1115.0 | 5477 9.4 204953.2 -1105.6  |
| 5208 9.6 195516.0 -1115.7 | 5298 9.6 201148.1 -1120.9 | 5388 9.5 203304.6 -1119.3 | 5478 9.0 205013.7 -1108.4  |
| 5209 9.2 195516.0 -1139.4 | 5299 9.6 201153.1 -1121.1 | 5389 9.5 203308.8 -1144.5 | 5479 9.9 205020.2 -1107.4  |
| 5210 10. 195528.1 -1122.3 | 5300 8.9 201202.0 -1135.4 | 5390 10. 203322.5 -1121.9 | 5480 9.6 205025.6 -1139.3  |
| 5211 9.4 195528.5 -1142.2 | 5301 9.4 201211.6 -1113.6 | 5391 9.6 203330.8 -1117.5 | 5481 9.8 205042.9 -1120.1  |
| 5212 10. 195530.2 -1135.0 | 5302 9.3 201212.0 -1142.1 | 5392 9.5 203332.2 -1117.5 | 5482 9.4 205050.7 -1120.5  |
| 5213 9.1 195543.1 -1113.0 | 5303 9.2 201241.9 -1106.3 | 5393 9.5 203349.7 -1147.8 | 5483 9.9 205103.6 -1147.7  |
| 5214 9.5 195551.6 -1104.0 | 5304 9.0 201256.1 -1110.9 | 5394 7.5 203349.8 -1127.5 | 5484 8.7 205120.7 -1116.5  |
| 5215 9.6 195610.9 -1100.1 | 5305 6.5 201303.5 -1126.5 | 5395 9.6 203400.6 -1101.2 | 5485 9.1 205127.7 -1115.8  |
| 5216 10. 195624.3 -1148.7 | 5306 9.8 201309.2 -1100.2 | 5396 9.8 203409.5 -1123.6 | 5486 9.4 205137.6 -1126.7  |
| 5217 8.6 195706.2 -1108.3 | 5307 9.0 201313.8 -1122.2 | 5397 9.5 203410.0 -1145.1 | 5487 9.4 205145.2 -1114.7  |
| 5218 9.0 195708.6 -1117.7 | 5308 9.9 201320.6 -1124.3 | 5398 9.5 203436.3 -1148.6 | 5488 9.8 205147.8 -1100.2  |
| 5219 9.5 195714.4 -1121.6 | 5309 8.7 201330.0 -1133.9 | 5399 9.5 203438.5 -1123.4 | 5489 9.2 205200.7 -1128.5  |
| 5220 9.7 195718.5 -1141.1 | 5310 9.7 201423.1 -1150.6 | 5400 9.5 203439.4 -1115.1 | 5490 9.5 205209.2 -1135.2  |
| 5221 9.8 195723.0 -1104.3 | 5311 9.5 201428.0 -1131.5 | 5401 7.5 203445.5 -1129.1 | 5491 7.1 205216.2 -1111.1  |
| 5222 9.1 195732.6 -1110.9 | 5312 9.6 201456.2 -1100.5 | 5402 7.8 203522.1 -1115.1 | 5492 8.0 205226.4 -1134.2  |
| 5223 9.4 195738.1 -1106.9 | 5313 8.8 201515.1 -1120.8 | 5403 9.9 203542.1 -1107.2 | 5493 9.0 205238.7 -1135.5  |
| 5224 9.7 195750.4 -1156.0 | 5314 9.3 201518.7 -1144.5 | 5404 9.1 203548.0 -1123.2 | 5494 9.1 205244.8 -1150.0  |
| 5225 9.9 195752.7 -1151.9 | 5315 9.7 201521.3 -1102.7 | 5405 9.6 203600.0 -1103.8 | 5495 9.5 205311.5 -1154.0  |
| 5226 9.6 195800.3 -1110.2 | 5316 9.3 201527.1 -1119.5 | 5406 9.6 203615.7 -1136.4 | 5496 9.2 205312.4 -1130.3  |
| 5227 9.5 195820.9 -1126.8 | 5317 7.8 201548.2 -1107.9 | 5407 9.7 203617.0 -1133.9 | 5497 10. 205319.7 -1119.6  |
| 5228 9.5 195823.2 -1102.4 | 5318 9.5 201603.5 -1107.6 | 5408 8.0 203642.8 -1100.4 | 5498 8.9 205328.2 -1118.7  |
| 5229 9.5 195836.0 -1126.8 | 5319 9.0 201606.6 -1128.2 | 5409 8.4 203701.2 -1132.9 | 5499 9.4 205347.6 -1159.3  |
| 5230 8.9 195842.5 -1103.2 | 5320 9.8 201611.2 -1113.2 | 5410 9.8 203703.0 -1151.8 | 5500 9.7 205350.0 -1106.3  |
| 5231 8.5 195908.7 -1106.9 | 5321 9.3 201613.6 -1133.9 | 5411 10. 203716.7 -1126.2 | 5501 9.6 205408.1 -1153.7  |
| 5232 9.5 195909.3 -1108.5 | 5322 9.5 201639.0 -1149.0 | 5412 8.5 203717.1 -1137.8 | 5502 8.5 205437.7 -1144.8  |
| 5233 9.8 195928.1 -1111.2 | 5323 8.5 201642.0 -1157.8 | 5413 9.9 203721.5 -1152.7 | 5503 9.5 205443.8 -1114.5  |
| 5234 9.4 195932.0 -1136.6 | 5324 9.8 201644.1 -1123.3 | 5414 9.9 203741.1 -1145.2 | 5504 8.9 205459.2 -1128.4  |
| 5235 9.5 195933.9 -1145.5 | 5325 8.9 201657.3 -1139.6 | 5415 9.1 203747.0 -1154.4 | 5505 9.5 205459.2 -1141.0  |
| 5236 8.7 195939.2 -1110.0 | 5326 9.4 201711.5 -1129.8 | 5416 9.6 203757.8 -1144.3 | 5506 9.0 205509.1 -1137.8  |
| 5237 9.5 195948.8 -1148.7 | 5327 8.9 201728.1 -1147.9 | 5417 8.5 203809.6 -1132.9 | 5507 8.6 205515.2 -1136.9  |
| 5238 9.9 195949.9 -1102.9 | 5328 9.2 201732.7 -1110.9 | 5418 9.0 203811.0 -1152.2 | 5508 9.4 205532.0 -1124.0  |
| 5239 9.4 200014.6 -1125.2 | 5329 9.8 201748.8 -1135.8 | 5419 9.6 203841.4 -1102.8 | 5509 9.0 205557.1 -1144.5  |
| 5240 9.5 200032.5 -1129.1 | 5330 9.0 201812.0 -1153.4 | 5420 8.3 203843.2 -1114.6 | 5510 10. 205608.4 -1114.8  |
| 5241 9.2 200112.1 -1133.6 | 5331 9.3 201812.8 -1143.4 | 5421 10. 203848.1 -1135.1 | 5511 20.0 205617.0 -1156.3 |
| 5242 9.8 200129.8 -1156.2 | 5332 8.3 201820.7 -1142.5 | 5422 9.4 203934.0 -1155.7 | 5512 9.8 205629.6 -1138.0  |
| 5243 9.5 200139.1 -1112.7 | 5333 9.2 201843.6 -1104.7 | 5423 9.5 203939.0 -1154.6 | 5513 9.4 205640.4 -1150.5  |
| 5244 9.9 200147.1 -1143.9 | 5334 9.2 201907.6 -1111.5 | 5424 9.8 203947.4 -1141.1 | 5514 9.7 205705.7 -1107.9  |
| 5245 8.8 200208.8 -1146.5 | 5335 9.8 201923.8 -1100.1 | 5425 9.6 203958.0 -1156.3 | 5515 8.5 205706.1 -1139.6  |
| 5246 9.5 200215.5 -1140.9 | 5336 9.5 201938.2 -1104.1 | 5426 9.9 204009.2 -1120.6 | 5516 8.9 205707.3 -1105.9  |
| 5247 9.7 200217.9 -1135.5 | 5337 9.8 202008.0 -1116.0 | 5427 9.3 204016.7 -1107.9 | 5517 9.8 205733.8 -1158.9  |
| 5248 9.9 200302.6 -1119.7 | 5338 9.5 202009.1 -1121.6 | 5428 9.9 204019.6 -1136.1 | 5518 9.8 205735.8 -1146.3  |
| 5249 8.8 200312.5 -1135.1 | 5339 8.7 202010.6 -1124.0 | 5429 9.4 204036.1 -1104.6 | 5519 9.8 205740.8 -1114.6  |
| 5250 9.8 200320.7 -1159.2 | 5340 9.6 202032.6 -1112.3 | 5430 10. 204038.6 -1137.0 | 5520 10. 205742.2 -1118.7  |
| 5251 9.6 200322.0 -1111.6 | 5341 8.2 202040.5 -1133.4 | 5431 9.6 204043.8 -1105.7 | 5521 10. 205750.1 -1151.7  |
| 5252 10. 200402.4 -1145.5 | 5342 9.8 202044.5 -1140.1 | 5432 9.0 204052.5 -1144.8 | 5522 9.1 205750.7 -1137.3  |
| 5253 9.6 200405.7 -1155.7 | 5343 8.5 202047.8 -1141.6 | 5433 9.3 204121.5 -1100.7 | 5523 9.8 205754.1 -1152.4  |
| 5254 7.6 200409.1 -1108.7 | 5344 9.0 202115.6 -1124.4 | 5434 7.8 204129.0 -1159.3 | 5524 8.2 205758.7 -1111.1  |
| 5255 9.3 200416.4 -1138.4 | 5345 9.9 202135.0 -1117.2 | 5435 9.6 204134.2 -1137.2 | 5525 9.1 205759.9 -1149.8  |
| 5256 8.7 200419.2 -1145.5 | 5346 9.0 202212.1 -1114.3 | 5436 9.7 204231.4 -1104.2 | 5526 9.8 205803.2 -1142.7  |
| 5257 8.8 200446.5 -1135.9 | 5347 8.5 202218.5 -1134.8 | 5437 9.5 204300.7 -1121.0 | 5527 9.4 205826.2 -1120.7  |
| 5258 7.7 200448.7 -1116.6 | 5348 9.8 202218.9 -1118.2 | 5438 9.9 204301.5 -1109.5 | 5528 9.5 205840.7 -1136.5  |
| 5259 8.8 200449.9 -1100.3 | 5349 9.0 202309.6 -1125.7 | 5439 9.7 204307.3 -1102.4 | 5529 9.4 205921.1 -1156.3  |
| 5260 9.1 200453.2 -1132.7 | 5350 9.5 202310.2 -1108.2 | 5440 9.5 204322.7 -1102.2 | 5530 8.2 205940.0 -1150.0  |
| 5261 9.2 200522.1 -1111.2 | 5351 8.8 202311.1 -1150.4 | 5441 9.5 204326.9 -1110.0 | 5531 10. 210019.3 -1142.0  |
| 5262 9.5 200534.6 -1127.2 | 5352 9.5 202334.7 -1140.5 | 5442 9.5 204328.6 -1157.3 | 5532 8.5 210059.2 -1135.5  |
| 5263 9.5 200534.8 -1131.0 | 5353 10. 202344.7 -1136.5 | 5443 9.8 204331.1 -1139.2 | 5533 8.1 210110.2 -1123.7  |
| 5264 9.4 200535.0 -1159.3 | 5354 10. 202400.8 -1100.6 | 5444 10. 204335.1 -1103.6 | 5534 8.5 210121.7 -1120.8  |
| 5265 9.8 200555.6 -1121.9 | 5355 9.4 202403.1 -1133.7 | 5445 9.6 204342.6 -1123.5 | 5535 9.8 210136.1 -1117.5  |
| 5266 9.7 200619.0 -1139.2 | 5356 9.6 202442.1 -1119.2 | 5446 9.1 204403.7 -1113.4 | 5536 9.8 210136.9 -1149.1  |
| 5267 9.8 200624.6 -1120.5 | 5357 9.7 202442.8 -1146.2 | 5447 7.2 204404.9 -1158.9 | 5537 9.5 210137.4 -1131.7  |
| 5268 9.2 200644.5 -1118.3 | 5358 10. 202454.0 -1129.3 | 5448 9.0 204408.6 -1157.5 | 5538 5.2 210141.2 -1157.6  |
| 5269 7.5 200651.1 -1119.1 | 5359 9.5 202514.6 -1121.1 | 5449 9.7 204415.4 -1125.7 | 5539 9.6 210218.1 -1139.1  |
| 5270 9.8 200656.5 -1132.9 | 5360 10. 202518.5 -1138.5 | 5450 9.5 204456.6 -1133.8 | 5540 9.6 210230.2 -1117.7  |



-11 5541 21h03m

5541 9.3 210301.1 -1138.8  
5542 9.5 210427.7 -1104.4  
5543 9.3 210430.2 -1127.8  
5544 9.3 210452.8 -1106.4  
5545 9.2 210454.5 -1114.6  
5546 9.6 210455.2 -1137.5  
5547 9.4 210505.2 -1137.1  
5548 9.8 210544.4 -1159.5  
5549 8.8 210558.0 -1122.2  
5550 10. 210558.4 -1159.5

5551 9.8 210601.3 -1154.1  
5552 8.6 210609.2 -1146.7  
5553 6.5 210625.2 -1112.4  
5554 9.8 210629.7 -1132.1  
5555 9.7 210643.2 -1101.3  
5556 9.9 210726.1 -1119.8  
5557 9.3 210736.3 -1103.1  
5558 9.5 210800.6 -1122.9  
5559 9.5 210843.2 -1136.8  
5560 9.6 210851.3 -1141.0

5561 9.8 210930.3 -1147.2  
5562 9.8 210941.4 -1157.4  
5563 9.0 211004.5 -1125.0  
5564 9.5 211031.8 -1138.1  
5565 9.5 211038.2 -1137.3  
5566 9.0 211053.8 -1113.6  
5567 9.5 211059.5 -1120.9  
5568 9.3 211129.6 -1118.1  
5569 9.2 211133.7 -1136.6  
5570 10. 211141.2 -1136.4

5571 9.8 211151.2 -1132.8  
5572 8.8 211216.1 -1105.2  
5573 9.7 211223.2 -1139.9  
5574 8.6 211234.5 -1124.8  
5575 9.9 211229.3 -1148.5  
5576 9.4 211251.6 -1147.9  
5577 9.3 211255.1 -1141.8  
5578 8.0 211257.5 -1157.7  
5579 9.5 211316.8 -1131.6  
5580 9.8 211403.4 -1147.6

5581 9.5 211418.7 -1107.9  
5582 9.6 211443.8 -1124.4  
5583 8.7 211518.2 -1150.5  
5584 8.3 211520.8 -1112.4  
5585 10. 211524.5 -1156.2  
5586 9.8 211531.4 -1143.4  
5587 9.0 211555.0 -1119.8  
5588 9.1 211624.7 -1114.0  
5589 9.0 211644.7 -1134.6  
5590 9.9 211654.4 -1149.1

5591 9.8 211656.2 -1112.0  
5592 9.5 211702.3 -1107.8  
5593 9.0 211750.0 -1152.5  
5594 9.0 211751.0 -1108.9  
5595 9.9 211801.3 -1121.5  
5596 9.2 211823.4 -1117.5  
5597 9.6 211835.7 -1144.7  
5598 8.2 211835.7 -1132.3  
5599 10. 211839.1 -1101.3  
5600 10. 211852.4 -1138.4

5601 9.6 211933.5 -1124.7  
5602 8.4 211939.2 -1147.3  
5603 9.5 211949.2 -1104.1  
5604 9.5 211956.0 -1144.9  
5605 9.9 212015.3 -1153.2  
5606 9.3 212118.4 -1138.5  
5607 9.8 212156.5 -1124.0  
5608 9.4 212158.5 -1135.4  
5609 9.1 212203.4 -1151.9  
5610 9.9 212256.0 -1118.4

5611 9.6 212257.9 -1149.2  
5612 10. 212314.9 -1133.9  
5613 9.4 212332.1 -1128.4  
5614 9.5 212334.8 -1158.5  
5615 9.7 212357.6 -1140.7  
5616 9.7 212359.8 -1143.7  
5617 9.8 212402.1 -1146.7  
5618 9.1 212428.8 -1109.8  
5619 8.7 212447.0 -1111.3  
5620 9.9 212543.5 -1122.0

5621 9.9 212602.7 -1120.9  
5622 9.5 212618.0 -1106.8  
5623 9.1 212632.7 -1133.8  
5624 9.3 212746.3 -1112.7  
5625 9.8 212802.0 -1102.7  
5626 9.6 212813.4 -1142.9  
5627 9.6 212825.3 -1115.1  
5628 10. 212901.0 -1142.1  
5629 9.8 212916.8 -1156.4  
5630 9.1 212921.9 -1124.5

5631 9.3 212939.1 -1104.2  
5632 8.6 212945.4 -1140.3  
5633 9.8 213017.2 -1120.9  
5634 9.0 213020.1 -1105.5  
5635 9.0 213021.0 -1133.1  
5636 9.2 213028.3 -1110.9  
5637 9.8 213046.7 -1135.7  
5638 10. 213051.0 -1129.2  
5639 9.3 213132.6 -1105.7  
5640 6.3 213140.4 -1113.8

5641 9.5 213145.4 -1119.6  
5642 9.4 213156.4 -1152.3  
5643 8.8 213200.2 -1149.8  
5644 9.1 213216.5 -1159.0  
5645 8.5 213221.7 -1127.3  
5646 9.6 213234.2 -1124.7  
5647 9.0 213252.6 -1108.5  
5648 8.5 213319.2 -1126.2  
5649 9.8 213334.8 -1159.0  
5650 10. 213421.4 -1111.0

5651 8.8 213440.2 -1143.5  
5652 9.2 213510.5 -1118.3  
5653 8.7 213545.6 -1147.8  
5654 9.2 213606.9 -1142.2  
5655 9.8 213608.2 -1136.3  
5656 9.8 213611.7 -1139.6  
5657 8.5 213630.3 -1126.5  
5658 9.8 213654.1 -1159.9  
5659 10. 213703.4 -1102.1  
5660 9.7 213713.3 -1102.1

5661 9.2 213717.8 -1124.0  
5662 9.9 213743.0 -1143.2  
5663 9.9 213803.9 -1154.8  
5664 9.4 213820.7 -1150.8  
5665 10. 213828.8 -1149.0  
5666 10. 213836.8 -1159.7  
5667 8.3 213839.9 -1128.7  
5668 10. 213841.2 -1138.8  
5669 9.7 213933.8 -1150.0  
5670 9.7 213936.4 -1148.6

5671 9.2 214005.9 -1156.8  
5672 9.8 214044.6 -1106.5  
5673 9.0 214044.8 -1138.0  
5674 9.4 214057.3 -1148.0  
5675 9.4 214102.4 -1151.8  
5676 9.3 214111.4 -1140.2  
5677 9.4 214211.7 -1142.0  
5678 9.8 214238.2 -1163.3  
5679 9.4 214239.0 -1134.6  
5680 9.7 214240.7 -1104.8

5681 9.0 214257.9 -1125.7  
5682 8.3 214309.0 -1115.2  
5683 9.3 214338.4 -1123.8  
5684 9.3 214359.7 -1142.9  
5685 9.5 214402.0 -1113.1  
5686 10. 214407.0 -1110.2  
5687 9.5 214412.0 -1156.0  
5688 9.8 214450.7 -1104.0  
5689 9.8 214457.6 -1142.3  
5690 6.8 214515.0 -1114.3

5691 9.5 214536.0 -1146.1  
5692 9.0 214615.5 -1124.1  
5693 9.3 214620.1 -1168.8  
5694 9.8 214629.7 -1116.7  
5695 10. 214632.7 -1125.1  
5696 9.7 214642.9 -1103.8  
5697 10. 214650.4 -1156.4  
5698 9.7 214658.5 -1106.7  
5699 10. 214705.3 -1145.2  
5700 9.8 214717.8 -1138.0

5701 9.3 214726.1 -1122.4  
5702 9.8 214733.0 -1128.0  
5703 9.7 214749.5 -1150.2  
5704 9.0 214809.1 -1107.2  
5705 9.0 214813.3 -1156.2  
5706 9.4 214814.7 -1101.7  
5707 9.3 214817.5 -1135.8  
5708 9.8 214827.8 -1104.1  
5709 9.5 214837.6 -1123.5  
5710 10. 214837.6 -1156.3

5711 9.6 214913.4 -1117.7  
5712 9.4 214919.4 -1119.0  
5713 9.4 214921.4 -1118.4  
5714 9.8 214922.7 -1149.9  
5715 9.8 214924.7 -1143.8  
5716 9.5 214939.0 -1140.0  
5717 9.7 214944.2 -1159.1  
5718 10. 214952.8 -1103.6  
5719 8.3 215014.6 -1123.7  
5720 8.8 215019.8 -1149.3

5721 9.8 215042.8 -1107.6  
5722 9.3 215048.3 -1134.5  
5723 9.8 215106.6 -1157.3  
5724 8.2 215114.6 -1158.3  
5725 9.5 215118.1 -1131.2  
5726 7.5 215159.3 -1100.2  
5727 10. 215222.9 -1117.9  
5728 9.8 215228.2 -1136.3  
5729 8.6 215235.6 -1111.0  
5730 9.4 215255.7 -1146.2

5731 9.3 215321.4 -1152.3  
5732 9.3 215336.5 -1116.2  
5733 9.1 215405.2 -1109.2  
5734 9.5 215446.5 -1142.7  
5735 9.1 215501.2 -1121.6  
5736 9.3 215537.8 -1151.6  
5737 9.3 215611.3 -1118.6  
5738 9.5 215620.6 -1156.4  
5739 9.5 215625.8 -1144.1  
5740 9.3 215629.7 -1120.2

5741 9.4 215649.3 -1135.4  
5742 8.7 215653.7 -1135.0  
5743 9.8 215708.6 -1148.3  
5744 9.7 215753.9 -1148.6  
5745 9.5 215802.2 -1146.2  
5746 9.5 215808.8 -1126.5  
5747 9.3 215811.5 -1130.3  
5748 9.9 215829.7 -1104.9  
5749 9.6 215836.4 -1102.0  
5750 10. 215905.0 -1152.0

5751 9.1 215908.9 -1106.7  
5752 10. 215912.2 -1106.5  
5753 9.5 215914.3 -1140.7  
5754 9.3 215919.8 -1140.5  
5755 9.7 215932.4 -1142.0  
5756 6.8 215933.4 -1109.1  
5757 9.8 215938.7 -1123.4  
5758 9.9 215959.1 -1126.1  
5759 9.2 220014.5 -1138.0  
5760 9.1 220024.8 -1137.5

5761 9.4 220029.1 -1129.3  
5762 9.5 220041.8 -1121.9  
5763 9.8 220109.9 -1159.8  
5764 9.8 220119.2 -1149.0  
5765 8.7 220124.5 -1113.9  
5766 9.1 220201.9 -1140.2  
5767 9.5 220214.2 -1145.7  
5768 9.5 220229.0 -1125.0  
5769 9.5 220234.7 -1106.5  
5770 6.5 220248.0 -1131.7

5771 8.9 220248.9 -1146.2  
5772 9.1 220250.3 -1111.8  
5773 10. 220308.4 -1139.8  
5774 9.5 220319.9 -1106.0  
5775 8.5 220350.6 -1144.5  
5776 10. 220425.9 -1100.8  
5777 7.3 220433.1 -1146.7  
5778 8.3 220455.8 -1108.5  
5779 9.6 220507.1 -1137.5  
5780 9.5 220514.8 -1135.3

5781 9.0 220525.3 -1153.5  
5782 9.1 220543.7 -1128.1  
5783 9.9 220558.8 -1108.8  
5784 9.8 220629.3 -1156.6  
5785 8.9 220650.3 -1159.3  
5786 9.5 220729.9 -1131.5  
5787 9.4 220735.5 -1143.6  
5788 10. 220738.9 -1118.4  
5789 9.5 220821.9 -1103.1  
5790 9.2 220845.0 -1129.2

5791 9.0 220859.0 -1154.6  
5792 8.7 220900.1 -1114.7  
5793 9.2 220904.1 -1109.0  
5794 9.5 220920.7 -1121.6  
5795 9.8 220923.9 -1124.5  
5796 9.5 220932.0 -1120.2  
5797 9.0 220940.1 -1159.5  
5798 9.2 220955.3 -1130.1  
5799 10. 221009.3 -1159.4  
5800 10. 221010.3 -1104.8

5801 9.8 221011.5 -1124.2  
5802 10. 221017.6 -1150.9  
5803 9.3 221035.1 -1112.4  
5804 9.8 221102.0 -1158.6  
5805 9.4 221115.4 -1118.5  
5806 9.1 221133.4 -1131.2  
5807 8.8 221135.1 -1131.0  
5808 9.5 221154.2 -1117.0  
5809 9.9 221206.5 -1120.7  
5810 9.3 221227.8 -1140.2

-11 5900 22h35m

5811 9.5 221256.1 -1142.1  
5812 9.6 221313.6 -1113.8  
5813 10. 221347.6 -1123.4  
5814 9.4 221350.2 -1153.1  
5815 9.3 221405.2 -1156.6  
5816 9.5 221413.3 -1135.9  
5817 7.8 221429.3 -1134.4  
5818 8.7 221506.6 -1158.0  
5819 9.5 221522.2 -1150.2  
5820 9.5 221551.9 -1155.3

5821 8.3 221614.0 -1137.1  
5822 8.4 221624.9 -1154.7  
5823 8.0 221649.7 -1153.4  
5824 9.2 221653.5 -1100.3  
5825 9.4 221712.8 -1138.6  
5826 9.1 221737.7 -1155.2  
5827 9.5 221739.4 -1101.1  
5828 9.5 221743.4 -1101.0  
5829 9.0 221754.5 -1154.3  
5830 9.6 221808.6 -1107.6

5831 9.7 221814.0 -1142.6  
5832 9.5 221846.6 -1114.8  
5833 7.0 221859.5 -1157.7  
5834 8.5 221907.3 -1122.2  
5835 9.0 221934.9 -1135.0  
5836 9.2 222011.2 -1104.7  
5837 9.8 222049.5 -1121.7  
5838 9.8 222055.5 -1101.1  
5839 9.0 222112.2 -1138.0  
5840 10. 222120.8 -1158.4

5841 9.9 222149.5 -1102.4  
5842 8.7 222220.8 -1156.5  
5843 9.6 222227.5 -1131.8  
5844 9.0 222234.7 -1121.5  
5845 10. 222235.5 -1114.1  
5846 9.5 222241.8 -1115.5  
5847 9.1 222242.3 -1146.8  
5848 9.5 222256.7 -1100.0  
5849 10. 222257.8 -1109.9  
5850 4.8 222259.0 -1125.5

5851 8.4 222311.6 -1121.8  
5852 8.5 222325.4 -1120.9  
5853 9.0 222328.4 -1145.6  
5854 9.1 222329.6 -1151.4  
5855 6.8 222400.4 -1138.9  
5856 9.6 222409.8 -1137.2  
5857 9.0 222442.9 -1132.1  
5858 8.5 222446.0 -1141.1  
5859 9.8 222450.7 -1114.0  
5860 9.8 222522.9 -1153.6

5861 9.4 222538.2 -1140.8  
5862 9.5 222539.0 -1104.0  
5863 9.5 222539.1 -1138.8  
5864 8.3 222601.3 -1115.8  
5865 9.5 222607.1 -1106.0  
5866 9.5 222631.6 -1127.1  
5867 9.1 222642.2 -1100.2  
5868 9.8 222655.9 -1155.2  
5869 9.6 222702.7 -1141.6  
5870 9.4 222719.2 -1131.3

5871 9.0 222725.6 -1158.5  
5872 9.5 222728.1 -1126.5  
5873 9.8 222745.0 -1131.6  
5874 10. 222802.2 -1138.8  
5875 8.6 222859.8 -1102.3  
5876 9.2 222907.4 -1147.5  
5877 9.8 222918.1 -1130.3  
5878 9.2 222919.0 -1147.2  
5879 9.8 222928.1 -1113.0  
5880 8.6 222935.4 -1101.2

5881 9.4 222941.7 -1103.7  
5882 10. 222954.6 -1157.7  
5883 10. 222955.2 -1123.7  
5884 9.6 223012.5 -1142.0  
5885 9.4 223032.5 -1151.1  
5886 9.9 223052.6 -1144.4  
5887 10. 223057.2 -1144.0  
5888 9.9 223058.8 -1135.4  
5889 9.1 223124.1 -1144.9  
5890 10. 223152.7 -1148.1

5891 9.4 223308.3 -1102.9  
5892 9.1 223322.4 -1111.0  
5893 9.5 223323.7 -1115.9  
5894 9.5 223352.7 -1111.2  
5895 9.8 223355.8 -1150.4  
5896 9.4 223417.0 -1122.8  
5897 8.5 223426.2 -1105.9  
5898 9.7 223438.3 -1101.2  
5899 9.0 223444.1 -1107.4  
5900 9.3 223503.9 -1100.3



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 5901 | 9.3 | 223506.8 | -1154.5 | 5991 | 9.7 | 225634.6 | -1141.2 | 6081 | 10. | 232100.8 | -1105.1 | 6171 | 10. | 235225.7 | -1121.8 |
| 5902 | 9.7 | 223517.2 | -1142.0 | 5992 | 10. | 225639.9 | -1103.9 | 6082 | 9.5 | 232106.1 | -1126.9 | 6172 | 10. | 235234.1 | -1108.6 |
| 5903 | 9.4 | 223523.5 | -1124.4 | 5993 | 9.5 | 225653.1 | -1117.7 | 6083 | 9.1 | 232117.3 | -1158.6 | 6173 | 9.6 | 235234.6 | -1153.8 |
| 5904 | 9.5 | 223540.3 | -1132.9 | 5994 | 10. | 225701.9 | -1144.8 | 6084 | 9.4 | 232146.5 | -1116.3 | 6174 | 9.9 | 235246.0 | -1130.2 |
| 5905 | 9.0 | 223554.2 | -1120.1 | 5995 | 10. | 225740.5 | -1108.1 | 6085 | 9.8 | 232156.2 | -1142.9 | 6175 | 7.8 | 235256.7 | -1116.4 |
| 5906 | 9.3 | 223605.5 | -1152.3 | 5996 | 8.0 | 225814.7 | -1140.3 | 6086 | 9.0 | 232211.6 | -1133.9 | 6176 | 9.8 | 235277.7 | -1116.0 |
| 5907 | 9.0 | 223643.3 | -1116.1 | 5997 | 7.3 | 225818.5 | -1113.3 | 6087 | 9.6 | 232216.9 | -1111.5 | 6177 | 9.0 | 235283.7 | -1144.7 |
| 5908 | 9.7 | 223645.2 | -1140.6 | 5998 | 9.1 | 225827.5 | -1109.5 | 6088 | 8.5 | 232244.4 | -1114.9 | 6178 | 9.3 | 235343.9 | -1136.5 |
| 5909 | 8.9 | 223726.6 | -1115.6 | 5999 | 9.1 | 225844.4 | -1112.4 | 6089 | 9.5 | 232358.5 | -1101.9 | 6179 | 9.4 | 235348.8 | -1123.9 |
| 5910 | 9.5 | 223812.5 | -1109.7 | 6000 | 10. | 225906.0 | -1106.3 | 6090 | 8.6 | 232418.6 | -1140.2 | 6180 | 9.1 | 235421.2 | -1118.2 |
| 5911 | 9.3 | 223823.9 | -1117.6 | 6001 | 9.5 | 225914.3 | -1146.8 | 6091 | 9.6 | 232422.4 | -1158.2 | 6181 | 9.5 | 235422.4 | -1154.1 |
| 5912 | 7.2 | 223835.1 | -1155.5 | 6002 | 9.4 | 225945.2 | -1150.3 | 6092 | 8.6 | 232425.3 | -1147.6 | 6182 | 9.6 | 235439.3 | -1131.6 |
| 5913 | 10. | 223841.5 | -1121.1 | 6003 | 9.5 | 230024.9 | -1138.2 | 6093 | 9.8 | 232437.5 | -1115.8 | 6183 | 9.5 | 235452.3 | -1131.2 |
| 5914 | 9.6 | 223907.2 | -1159.0 | 6004 | 9.6 | 230046.3 | -1153.7 | 6094 | 9.0 | 232443.9 | -1111.7 | 6184 | 9.5 | 235452.9 | -1107.3 |
| 5915 | 9.8 | 223920.1 | -1117.7 | 6005 | 10. | 230048.1 | -1115.1 | 6095 | 9.2 | 232447.8 | -1150.5 | 6185 | 9.0 | 235507.8 | -1131.3 |
| 5916 | 10. | 223921.4 | -1109.6 | 6006 | 9.5 | 230104.2 | -1140.1 | 6096 | 9.1 | 232450.9 | -1157.9 | 6186 | 9.1 | 235516.2 | -1107.2 |
| 5917 | 9.8 | 223925.9 | -1118.9 | 6007 | 9.6 | 230109.4 | -1127.5 | 6097 | 9.8 | 232453.9 | -1101.8 | 6187 | 9.8 | 235532.6 | -1101.0 |
| 5918 | 10. | 223927.9 | -1154.0 | 6008 | 9.5 | 230118.3 | -1116.8 | 6098 | 7.0 | 232454.8 | -1147.8 | 6188 | 9.1 | 235550.4 | -1148.0 |
| 5919 | 9.5 | 224010.2 | -1139.8 | 6009 | 9.5 | 230123.8 | -1106.8 | 6099 | 9.3 | 232538.9 | -1103.7 | 6189 | 9.2 | 235554.0 | -1134.9 |
| 5920 | 9.7 | 224043.6 | -1158.5 | 6010 | 10. | 230124.6 | -1124.2 | 6100 | 10. | 232608.1 | -1120.0 | 6190 | 9.5 | 235559.8 | -1113.2 |
| 5921 | 9.4 | 224043.8 | -1128.9 | 6011 | 8.7 | 230133.0 | -1128.5 | 6101 | 9.7 | 232648.9 | -1101.8 | 6191 | 9.3 | 235635.4 | -1142.4 |
| 5922 | 9.6 | 224044.4 | -1108.5 | 6012 | 9.5 | 230141.9 | -1130.9 | 6102 | 9.5 | 232656.2 | -1131.5 | 6192 | 9.8 | 235637.5 | -1137.3 |
| 5923 | 6.3 | 224052.5 | -1119.1 | 6013 | 9.3 | 230149.3 | -1107.9 | 6103 | 9.5 | 232658.0 | -1108.9 | 6193 | 8.8 | 235702.2 | -1159.9 |
| 5924 | 9.7 | 224056.4 | -1102.6 | 6014 | 8.8 | 230157.5 | -1158.0 | 6104 | 9.2 | 232710.6 | -1138.4 | 6194 | 5.5 | 235704.4 | -1118.8 |
| 5925 | 10. | 224097.7 | -1134.7 | 6015 | 8.0 | 230222.6 | -1118.3 | 6105 | 9.0 | 232713.8 | -1110.2 | 6195 | 10. | 235748.5 | -1134.3 |
| 5926 | 10. | 224116.9 | -1113.5 | 6016 | 10. | 230300.4 | -1112.7 | 6106 | 8.9 | 232719.7 | -1123.0 | 6196 | 9.9 | 235750.4 | -1148.4 |
| 5927 | 9.8 | 224131.5 | -1137.6 | 6017 | 9.4 | 230316.6 | -1112.4 | 6107 | 9.1 | 232720.6 | -1124.0 | 6197 | 10. | 235751.8 | -1118.0 |
| 5928 | 10. | 224144.1 | -1130.0 | 6018 | 10. | 230318.9 | -1113.3 | 6108 | 9.3 | 232727.7 | -1123.4 | 6198 | 9.9 | 235801.2 | -1152.0 |
| 5929 | 10. | 224154.0 | -1126.3 | 6019 | 9.4 | 230327.6 | -1147.1 | 6109 | 9.8 | 232740.0 | -1147.8 | 6199 | 8.0 | 235851.0 | -1135.1 |
| 5930 | 8.7 | 224158.8 | -1144.6 | 6020 | 9.3 | 230330.0 | -1127.4 | 6110 | 7.3 | 232757.1 | -1121.4 | 6200 | 10. | 235854.2 | -1149.2 |
| 5931 | 8.9 | 224207.9 | -1149.9 | 6021 | 8.6 | 230355.9 | -1118.1 | 6111 | 8.0 | 232827.3 | -1129.2 | 6201 | 9.2 | 235912.6 | -1150.0 |
| 5932 | 8.9 | 224228.9 | -1102.2 | 6022 | 9.9 | 230412.6 | -1153.9 | 6112 | 9.0 | 232830.2 | -1130.3 | 6202 | 10. | 235938.1 | -1132.4 |
| 5933 | 8.2 | 224229.6 | -1110.4 | 6023 | 9.0 | 230503.5 | -1107.5 | 6113 | 9.6 | 232859.6 | -1139.2 | 6203 | 9.7 | 235938.8 | -1131.6 |
| 5934 | 10. | 224247.3 | -1104.0 | 6024 | 9.4 | 230543.5 | -1140.4 | 6114 | 9.7 | 232920.3 | -1131.7 | 6204 | 9.5 | 235956.5 | -1145.6 |
| 5935 | 10. | 224251.8 | -1133.8 | 6025 | 9.0 | 230602.8 | -1124.0 | 6115 | 10. | 232926.9 | -1153.2 | 6205 | 8.7 | 235958.2 | -1150.1 |
| 5936 | 9.3 | 224323.9 | -1115.2 | 6026 | 9.9 | 230605.5 | -1122.7 | 6116 | 9.1 | 232957.1 | -1107.8 | 6206 | 9.8 | 235959.2 | -1145.2 |
| 5937 | 9.0 | 224345.2 | -1153.8 | 6027 | 8.0 | 230608.4 | -1106.2 | 6117 | 9.4 | 233103.8 | -1158.1 | 1    | 9.9 | 00005.5  | -1233.1 |
| 5938 | 9.0 | 224354.3 | -1121.8 | 6028 | 9.5 | 230618.6 | -1116.7 | 6118 | 9.3 | 233118.4 | -1144.8 | 2    | 9.1 | 00053.9  | -1212.1 |
| 5939 | 9.4 | 224401.7 | -1127.3 | 6029 | 9.1 | 230624.4 | -1145.9 | 6119 | 9.4 | 233129.2 | -1117.9 | 3    | 9.5 | 00105.0  | -1217.9 |
| 5940 | 8.5 | 224433.0 | -1143.4 | 6030 | 9.1 | 230625.3 | -1117.2 | 6120 | 10. | 233133.3 | -1150.2 | 4    | 9.6 | 00106.6  | -1252.5 |
| 5941 | 8.9 | 224522.7 | -1112.1 | 6031 | 8.5 | 230657.0 | -1114.7 | 6121 | 9.0 | 233225.9 | -1143.9 | 5    | 9.8 | 00116.4  | -1222.8 |
| 5942 | 9.9 | 224527.4 | -1136.7 | 6032 | 6.3 | 230707.3 | -1128.5 | 6122 | 9.6 | 233229.7 | -1115.0 | 6    | 9.9 | 00124.1  | -1259.4 |
| 5943 | 9.1 | 224532.6 | -1126.8 | 6033 | 8.9 | 230736.1 | -1143.1 | 6123 | 10. | 233237.2 | -1104.7 | 7    | 10. | 00125.0  | -1249.1 |
| 5944 | 8.8 | 224536.6 | -1148.6 | 6034 | 9.4 | 230759.3 | -1137.4 | 6124 | 9.6 | 233247.4 | -1102.6 | 8    | 8.8 | 00203.6  | -1250.8 |
| 5945 | 9.7 | 224537.2 | -1159.4 | 6035 | 9.1 | 230809.7 | -1135.6 | 6125 | 8.8 | 233259.5 | -1101.7 | 9    | 10. | 00253.6  | -1233.5 |
| 5946 | 8.2 | 224565.1 | -1104.5 | 6036 | 8.8 | 230812.4 | -1150.0 | 6126 | 10. | 233324.5 | -1147.1 | 10   | 8.3 | 00258.6  | -1235.3 |
| 5947 | 9.6 | 224718.2 | -1100.5 | 6037 | 9.7 | 230820.6 | -1121.5 | 6127 | 9.8 | 233358.4 | -1144.7 | 11   | 9.7 | 00359.8  | -1244.2 |
| 5948 | 9.3 | 224719.4 | -1117.0 | 6038 | 8.8 | 230821.5 | -1109.3 | 6128 | 9.8 | 233437.5 | -1115.1 | 12   | 9.4 | 00405.8  | -1232.4 |
| 5949 | 9.5 | 224744.1 | -1118.2 | 6039 | 9.5 | 230853.2 | -1134.7 | 6129 | 9.5 | 233512.0 | -1158.1 | 13   | 9.5 | 00412.5  | -1210.5 |
| 5950 | 9.6 | 224813.9 | -1158.2 | 6040 | 8.0 | 230854.2 | -1100.1 | 6130 | 9.4 | 233605.6 | -1107.7 | 14   | 8.3 | 00509.1  | -1229.9 |
| 5951 | 10. | 224814.1 | -1123.9 | 6041 | 10. | 230916.3 | -1138.9 | 6131 | 8.9 | 233606.2 | -1109.8 | 15   | 9.5 | 00511.9  | -1255.9 |
| 5952 | 8.7 | 224828.8 | -1150.3 | 6042 | 8.3 | 230932.3 | -1109.5 | 6132 | 8.9 | 233646.1 | -1147.3 | 16   | 10. | 00539.7  | -1254.9 |
| 5953 | 8.1 | 224913.5 | -1102.1 | 6043 | 9.4 | 231022.2 | -1135.1 | 6133 | 9.9 | 233656.7 | -1120.8 | 17   | 9.9 | 00551.5  | -1209.1 |
| 5954 | 8.8 | 224915.7 | -1110.5 | 6044 | 9.5 | 231042.7 | -1123.3 | 6134 | 9.4 | 233821.7 | -1108.8 | 18   | 9.2 | 00555.5  | -1239.0 |
| 5955 | 9.6 | 224931.8 | -1118.2 | 6045 | 9.5 | 231045.4 | -1159.8 | 6135 | 8.3 | 233830.3 | -1119.9 | 19   | 9.8 | 00600.4  | -1228.7 |
| 5956 | 9.9 | 224932.4 | -1114.6 | 6046 | 9.4 | 231053.3 | -1134.0 | 6136 | 9.9 | 233854.4 | -1136.2 | 20   | 8.3 | 00638.0  | -1206.8 |
| 5957 | 10. | 224932.9 | -1121.8 | 6047 | 10. | 231131.0 | -1140.9 | 6137 | 9.5 | 233911.3 | -1132.5 | 21   | 8.8 | 00639.6  | -1220.0 |
| 5958 | 9.6 | 224937.0 | -1158.6 | 6048 | 9.6 | 231207.1 | -1135.1 | 6138 | 9.6 | 233956.6 | -1148.6 | 22   | 9.9 | 00641.9  | -1216.8 |
| 5959 | 9.8 | 225007.4 | -1138.7 | 6049 | 9.9 | 231213.8 | -1130.5 | 6139 | 8.8 | 234021.4 | -1122.3 | 23   | 10. | 00701.7  | -1209.5 |
| 5960 | 9.8 | 225009.1 | -1129.9 | 6050 | 9.8 | 231225.6 | -1115.5 | 6140 | 9.5 | 234029.2 | -1158.5 | 24   | 9.7 | 00701.8  | -1256.2 |
| 5961 | 8.7 | 225030.1 | -1154.3 | 6051 | 8.8 | 231254.4 | -1136.7 | 6141 | 9.2 | 234045.6 | -1105.7 | 25   | 10. | 00725.9  | -1240.3 |
| 5962 | 9.7 | 225042.2 | -1139.2 | 6052 | 9.5 | 231319.0 | -1140.4 | 6142 | 9.3 | 234105.6 | -1105.5 | 26   | 9.8 | 00738.0  | -1259.1 |
| 5963 | 9.2 | 225045.5 | -1102.4 | 6053 | 7.8 | 231319.7 | -1119.5 | 6143 | 9.3 | 234118.6 | -1146.3 | 27   | 9.1 | 00751.7  | -1221.8 |
| 5964 | 8.5 | 225122.0 | -1147.2 | 6054 | 8.6 | 231411.3 | -1139.7 | 6144 | 9.9 | 234127.2 | -1153.4 | 28   | 8.1 | 00825.7  | -1247.9 |
| 5965 | 8.9 | 225123.1 | -1129.1 | 6055 | 9.2 | 231423.0 | -1137.6 | 6145 | 9.5 | 234234.7 | -1135.5 | 29   | 9.1 | 00836.3  | -1253.0 |
| 5966 | 9.7 | 225133.9 | -1132.1 | 6056 | 9.5 | 231424.8 | -1159.0 | 6146 | 6.8 | 234238.8 | -1154.5 | 30   | 9.5 | 00853.9  | -1255.7 |
| 5967 | 9.4 | 225200.6 | -1123.2 | 6057 | 9.8 | 231427.7 | -1123.1 | 6147 | 9.5 | 234250.2 | -1103.9 | 31   | 9.6 | 00815.0  | -1257.2 |
| 5968 | 8.4 | 225211.8 | -1139.5 | 6058 | 9.5 | 231429.2 | -1136.0 | 6148 | 9.1 | 234300.6 | -1156.8 | 32   | 9.7 | 00924.1  | -1203.2 |
| 5969 | 9.8 | 225223.0 | -1151.8 | 6059 | 9.3 | 231449.6 | -1108.7 | 6149 | 9.5 | 234416.4 | -1108.6 | 33   | 9.4 | 00925.4  | -1255.9 |
| 5970 | 9.8 | 225226.7 | -1148.8 | 6060 | 10. | 231503.5 | -1137.6 | 6150 | 9.1 | 234434.9 | -1122.4 | 34   | 8.3 | 00943.4  | -1251.2 |
| 5971 | 8.7 | 225229.0 | -1133.1 | 6061 | 9.5 | 231506.2 | -1116.9 | 6151 | 9.0 | 234500.0 | -1139.3 | 35   | 8.5 | 01018.1  | -1200.9 |
| 5972 | 9.5 | 225232.2 | -1144.4 | 6062 | 9.4 | 231512.9 | -1137.0 | 6152 | 8.8 | 234527.1 | -1137.8 | 36   | 10. | 01035.8  | -1224.1 |
| 5973 | 9.5 | 225315.2 | -1115.8 | 6063 | 9.7 | 231521.1 | -1157.5 | 6153 | 9.4 | 234539.0 | -1102.2 | 37   | 9.5 | 01117.3  | -1228.2 |
| 5974 | 9.3 | 225315.5 | -1139.4 | 6064 | 8.0 | 231528.9 | -1134.0 | 6    |     |          |         |      |     |          |         |



-12 55 0h16m

55 9.6 01626.5 -1239.6  
56 9.2 01714.4 -1238.3  
57 9.7 01718.0 -1256.4  
58 9.8 01720.4 -1215.3  
59 7.8 01728.9 -1230.9  
60 9.0 01733.6 -1245.6  
61 9.4 01824.5 -1243.0  
62 9.9 01842.2 -1255.9  
63 8.5 01846.5 -1211.0  
64 10. 01931.7 -1253.4  
  
65 9.6 01933.5 -1220.5  
66 9.7 01953.6 -1224.0  
67 9.5 01955.6 -1247.1  
68 9.4 01957.0 -1251.9  
69 9.1 02013.2 -1249.8  
70 9.3 02025.7 -1223.0  
71 9.4 02038.3 -1231.8  
72 6.7 02039.1 -1227.2  
73 10. 02050.1 -1200.1  
74 9.1 02051.2 -1205.7  
  
75 6.7 02110.7 -1202.4  
76 9.3 02148.7 -1251.2  
77 7.8 02149.1 -1224.0  
78 10. 02200.4 -1240.2  
79 10. 02210.2 -1221.7  
80 9.4 02210.6 -1218.1  
81 9.3 02316.4 -1213.0  
82 10. 02325.4 -1231.3  
83 8.0 02359.5 -1201.5  
84 8.4 02410.1 -1204.4  
  
85 10. 02418.2 -1226.5  
86 10. 02441.3 -1206.8  
87 9.2 02441.4 -1215.8  
88 9.6 02448.2 -1206.0  
89 10. 02506.9 -1255.7  
90 9.5 02512.7 -1252.6  
91 9.1 02514.2 -1237.6  
92 10. 02551.5 -1208.6  
93 9.7 02603.3 -1238.0  
94 8.5 02703.8 -1205.2  
  
95 10. 02744.2 -1245.0  
96 9.5 02754.2 -1224.5  
97 9.7 02808.6 -1215.0  
98 9.3 02814.1 -1237.4  
99 8.8 02901.5 -1205.6  
100 8.8 02930.4 -1228.0  
101 9.3 02948.7 -1212.7  
102 9.4 02951.2 -1205.6  
103 9.2 02953.5 -1226.3  
104 9.3 03017.1 -1200.4  
  
105 9.5 03018.9 -1234.3  
106 9.3 03024.5 -1252.6  
107 9.7 03105.0 -1256.1  
108 9.6 03109.8 -1242.1  
109 8.8 03113.5 -1258.3  
110 9.4 03132.9 -1235.0  
111 9.6 03147.4 -1225.4  
112 9.6 03147.4 -1215.7  
113 9.3 03154.0 -1216.8  
114 9.0 03155.8 -1235.7  
  
115 9.5 03200.0 -1256.2  
116 9.5 03206.6 -1255.8  
117 8.5 03327.2 -1209.9  
118 10. 03335.6 -1259.4  
119 9.2 03442.5 -1227.2  
120 9.2 03445.1 -1252.3  
121 7.0 03454.8 -1235.9  
122 8.9 03504.4 -1256.9  
123 9.3 03530.5 -1230.8  
124 9.1 03603.2 -1252.8  
  
125 9.1 03610.9 -1242.0  
126 6.0 03632.0 -1248.0  
127 9.6 03738.7 -1254.5  
128 7.8 03742.3 -1256.5  
129 10. 03827.2 -1231.5  
130 9.5 03843.3 -1232.1  
131 10. 03844.8 -1236.5  
132 7.3 03856.3 -1214.2  
133 10. 03941.5 -1239.1  
134 9.9 03946.4 -1240.2  
  
135 9.5 03948.9 -1255.7  
136 10. 04058.5 -1220.8  
137 10. 04104.9 -1210.7  
138 10. 04123.4 -1209.2  
139 9.5 04124.8 -1205.0  
140 9.5 04125.3 -1209.3  
141 10. 04203.1 -1250.3  
142 9.0 04207.0 -1233.0  
143 9.0 04219.5 -1259.8  
144 10. 04223.7 -1226.2

145 9.4 04224.5 -1228.8  
146 10. 04253.1 -1246.7  
147 9.5 04300.5 -1220.7  
148 9.3 04343.8 -1210.8  
149 9.4 04358.4 -1209.3  
150 9.5 04417.3 -1257.1  
151 10. 04420.8 -1225.4  
152 9.3 04424.5 -1218.0  
153 9.3 04435.0 -1236.6  
154 8.9 04456.8 -1239.5  
  
155 9.5 04510.7 -1222.2  
156 9.4 04544.0 -1255.8  
157 9.2 04616.8 -1239.2  
158 10. 04655.5 -1201.9  
159 9.5 04716.2 -1242.1  
160 9.5 04721.3 -1248.4  
161 9.2 04753.7 -1259.3  
162 6.0 04845.4 -1203.2  
163 9.0 04850.7 -1219.1  
164 9.5 04908.8 -1248.0  
  
165 9.8 04934.8 -1221.8  
166 9.2 04937.5 -1208.6  
167 9.1 05016.6 -1216.1  
168 9.4 05029.1 -1210.1  
169 9.5 05044.0 -1207.2  
170 8.7 05109.6 -1250.1  
171 10. 05118.5 -1252.9  
172 9.7 05120.2 -1238.6  
173 6.5 05128.1 -1209.4  
174 10. 05134.1 -1226.1  
  
175 10. 05209.2 -1236.4  
176 9.1 05211.5 -1240.1  
177 9.2 05224.0 -1243.4  
178 9.4 05227.7 -1215.1  
179 9.0 05258.7 -1248.1  
180 9.7 05301.7 -1209.6  
181 10. 05303.4 -1255.5  
182 9.4 05303.4 -1219.5  
183 8.1 05315.3 -1258.5  
184 9.5 05330.3 -1235.5  
  
185 9.2 05349.1 -1211.0  
186 9.5 05402.5 -1226.2  
187 10. 05426.5 -1248.5  
188 9.4 05430.6 -1255.1  
189 9.4 05441.0 -1220.8  
190 8.6 05451.5 -1202.2  
191 10. 05454.3 -1235.9  
192 10. 05509.6 -1255.1  
193 9.4 05545.5 -1201.7  
194 9.3 05613.4 -1257.0  
  
195 9.7 05631.5 -1242.2  
196 8.2 05633.3 -1226.8  
197 9.5 05654.2 -1224.8  
198 10. 05734.5 -1242.1  
199 10. 05738.7 -1255.6  
200 9.5 05754.5 -1241.6  
201 9.1 05811.7 -1212.4  
202 10. 05819.2 -1222.4  
203 9.5 05841.8 -1202.3  
204 9.5 05956.8 -1257.2  
  
205 9.3 10014.8 -1252.3  
206 10. 10044.4 -1231.8  
207 9.8 10047.8 -1216.5  
208 10. 10048.1 -1243.4  
209 7.8 10056.5 -1256.7  
210 8.5 10148.0 -1252.2  
211 10. 10206.4 -1225.5  
212 9.1 10209.3 -1253.5  
213 7.5 10222.5 -1227.0  
214 9.4 10309.9 -1225.2  
  
215 10. 10319.9 -1210.9  
216 8.3 10332.5 -1247.7  
217 8.1 10347.4 -1209.5  
218 9.5 10417.9 -1214.9  
219 10. 10424.3 -1212.2  
220 9.0 10440.3 -1229.4  
221 9.7 10443.8 -1241.3  
222 9.1 10507.1 -1250.0  
223 10. 10512.7 -1234.7  
224 9.3 10520.6 -1251.8  
  
225 10. 10554.9 -1245.7  
226 8.3 10628.2 -1242.0  
227 8.4 10650.9 -1236.3  
228 9.8 10707.0 -1240.5  
229 9.8 10739.0 -1248.7  
230 8.9 10834.6 -1218.4  
231 9.6 10851.5 -1212.2  
232 9.3 10859.8 -1257.1  
233 7.5 10910.9 -1251.7  
234 9.4 10925.1 -1232.0

235 9.1 10935.7 -1244.2  
236 9.0 10955.6 -1212.5  
237 9.1 11024.5 -1252.7  
238 8.5 11104.7 -1217.5  
239 9.7 11115.1 -1219.7  
240 9.2 11221.9 -1250.6  
241 9.5 11245.2 -1223.7  
242 9.5 11255.2 -1222.8  
243 7.8 11319.0 -1213.2  
244 10. 11321.4 -1249.5  
  
245 9.0 11329.3 -1232.6  
246 9.4 11335.5 -1220.4  
247 8.5 11423.2 -1220.6  
248 9.4 11427.4 -1247.1  
249 9.5 11521.3 -1239.7  
250 9.1 11608.2 -1216.5  
251 8.9 11618.4 -1227.9  
252 8.6 11637.8 -1209.6  
253 9.2 11803.9 -1213.6  
254 8.9 11810.6 -1254.0  
  
255 8.8 11810.6 -1220.8  
256 10. 11827.1 -1259.4  
257 10. 11844.3 -1248.2  
258 9.4 11847.1 -1221.0  
259 8.8 11902.4 -1258.4  
260 9.0 11928.4 -1224.1  
261 9.4 11943.4 -1224.5  
262 9.5 12014.9 -1201.0  
263 9.5 12018.2 -1253.0  
264 9.1 12035.8 -1242.5  
  
265 7.3 12106.2 -1259.6  
266 10. 12107.9 -1209.8  
267 7.7 12126.0 -1216.5  
268 8.9 12202.0 -1222.3  
269 10. 12204.8 -1257.5  
270 9.5 12211.5 -1214.9  
271 9.5 12221.5 -1204.9  
272 9.8 12227.5 -1201.8  
273 9.8 12246.9 -1229.8  
274 10. 12259.7 -1252.1  
  
275 9.5 12319.5 -1206.1  
276 9.4 12330.4 -1229.9  
277 9.5 12332.0 -1211.9  
278 9.6 12346.6 -1233.3  
279 9.4 12417.6 -1217.8  
280 9.8 12421.1 -1230.9  
281 9.0 12451.6 -1226.4  
282 9.6 12540.5 -1220.3  
283 10. 12550.6 -1221.9  
284 10. 12613.4 -1241.8  
  
285 9.3 12616.4 -1236.0  
286 8.5 12633.5 -1257.6  
287 9.1 12636.1 -1220.3  
288 9.1 12640.7 -1236.8  
289 9.5 12645.5 -1258.5  
290 10. 12656.1 -1206.9  
291 9.9 12730.2 -1203.4  
292 8.5 12751.4 -1249.8  
293 9.0 12820.8 -1235.8  
294 8.8 12827.3 -1241.0  
  
295 9.5 12834.1 -1215.2  
296 9.3 12837.9 -1206.8  
297 9.2 12838.1 -1227.0  
298 10. 13018.8 -1253.6  
299 9.7 13033.1 -1202.7  
300 10. 13139.5 -1226.4  
301 9.2 13144.1 -1249.3  
302 9.3 13154.7 -1216.2  
303 10. 13210.6 -1244.1  
304 8.4 13211.5 -1246.6  
  
305 9.1 13259.7 -1252.4  
306 9.0 13259.8 -1212.4  
307 8.8 13305.3 -1235.2  
308 9.5 13313.2 -1207.0  
309 9.0 13314.8 -1202.7  
310 9.3 13328.3 -1219.5  
311 9.0 13334.8 -1217.5  
312 9.6 13343.5 -1257.6  
313 9.3 13411.8 -1252.9  
314 9.5 13430.3 -1226.3  
  
315 5.8 13434.8 -1202.4  
316 9.8 13440.1 -1239.8  
317 9.8 13502.3 -1202.1  
318 9.1 13539.4 -1215.6  
319 9.0 13541.1 -1253.7  
320 9.4 13554.7 -1225.3  
321 8.5 13623.4 -1208.4  
322 7.3 13716.4 -1201.5  
323 8.5 13731.5 -1223.4  
324 9.1 13732.3 -1200.1

325 8.5 13732.7 -1214.0  
326 9.0 13813.5 -1258.8  
327 9.4 13840.9 -1202.9  
328 9.5 13902.0 -1220.7  
329 9.1 13904.3 -1246.3  
330 9.6 13920.8 -1227.6  
331 9.2 13943.4 -1252.9  
332 9.5 14042.1 -1223.5  
333 10. 14052.8 -1238.9  
334 9.8 14115.1 -1259.9  
  
335 9.0 14123.2 -1231.3  
336 9.8 14212.2 -1232.9  
337 9.4 14223.2 -1230.5  
338 9.9 14229.7 -1259.6  
339 10. 14230.3 -1251.8  
340 9.0 14238.9 -1238.0  
341 9.1 14253.5 -1249.4  
342 9.4 14255.1 -1201.7  
343 8.5 14320.0 -1251.5  
344 9.8 14343.2 -1256.4  
  
345 9.2 14353.1 -1221.4  
346 8.8 14509.6 -1230.9  
347 10. 14530.6 -1213.2  
348 10. 14701.3 -1258.8  
349 7.8 14708.2 -1220.6  
350 8.0 14714.0 -1234.1  
351 10. 14745.2 -1256.7  
352 8.3 14747.7 -1213.4  
353 9.6 14834.8 -1222.5  
354 9.6 14851.5 -1214.9  
  
355 9.1 14900.1 -1244.7  
356 9.7 14910.7 -1245.0  
357 9.7 14929.4 -1257.5  
358 8.8 14950.9 -1256.4  
359 9.1 14952.8 -1223.0  
360 9.8 14954.8 -1230.9  
361 9.3 15023.3 -1254.1  
362 9.9 15026.7 -1230.2  
363 9.3 15040.4 -1257.2  
364 8.6 15050.1 -1240.1  
  
365 8.2 15125.7 -1244.8  
366 8.9 15127.8 -1204.4  
367 6.3 15139.3 -1200.2  
368 8.1 15212.7 -1236.1  
369 9.6 15306.0 -1257.6  
370 9.7 15330.7 -1217.8  
371 10. 15428.6 -1227.4  
372 8.5 15444.6 -1242.6  
373 7.8 15448.9 -1231.2  
374 9.3 15450.5 -1240.1  
  
375 9.2 15527.2 -1235.7  
376 9.4 15542.0 -1223.0  
377 9.5 15549.0 -1255.0  
378 9.2 15616.1 -1212.5  
379 9.5 15628.6 -1225.0  
380 10. 15631.3 -1221.7  
381 8.5 15703.1 -1259.9  
382 6.4 15707.3 -1233.0  
383 9.1 15710.4 -1200.3  
384 9.5 15717.5 -1215.0  
  
385 9.3 15718.4 -1247.5  
386 9.6 15745.5 -1215.1  
387 9.2 15830.0 -1219.5  
388 9.1 15918.4 -1245.3  
389 10. 15944.3 -1230.5  
390 10. 20001.0 -1248.1  
391 9.4 20005.6 -1213.6  
392 9.1 20006.2 -1216.8  
393 8.2 20007.1 -1222.6  
394 9.2 20023.8 -1217.0  
  
395 8.3 20104.9 -1234.4  
396 10. 20131.0 -1244.0  
397 9.5 20152.7 -1218.1  
398 10. 20157.2 -1254.4  
399 10. 20206.6 -1210.7  
400 9.6 20239.5 -1239.0  
401 9.8 20253.7 -1226.4  
402 9.3 20259.5 -1243.9  
403 8.8 20329.4 -1216.5  
404 9.1 20343.6 -1242.6  
  
405 9.6 20355.2 -1200.9  
406 9.7 20404.1 -1241.8  
407 10. 20441.9 -1257.8  
408 9.9 20546.3 -1256.2  
409 10. 20603.7 -1229.2  
410 10. 20619.0 -1228.6  
411 9.8 20632.2 -1219.5  
412 9.6 20648.5 -1228.6  
413 9.2 20705.0 -1222.6  
414 9.8 20705.3 -1232.7

-12 414 2h07m



-12 415 2h07m

415 9.8 20725.7 -1215.0  
416 10. 20726.6 -1232.6  
417 9.4 20730.8 -1220.2  
418 7.5 20810.0 -1243.5  
419 9.2 20819.4 -1253.2  
420 9.4 20830.8 -1217.1  
421 8.9 20838.9 -1222.6  
422 9.3 20903.0 -1252.4  
423 9.1 20929.4 -1233.4  
424 9.5 21021.9 -1250.7

425 9.4 21032.2 -1237.0  
426 9.9 21058.6 -1212.5  
427 9.9 21104.9 -1245.7  
428 9.9 21111.7 -1229.8  
429 9.4 21119.9 -1243.8  
430 9.8 21121.3 -1230.7  
431 9.3 21218.8 -1234.6  
432 9.5 21255.9 -1203.3  
433 9.8 21303.5 -1251.0  
434 9.5 21304.6 -1252.8

435 9.7 21306.1 -1226.9  
436 7.5 21341.4 -1216.5  
437 9.4 21348.7 -1259.2  
438 9.9 21357.1 -1254.3  
439 8.9 21414.6 -1251.9  
440 9.8 21416.7 -1258.0  
441 8.1 21417.4 -1201.4  
442 8.5 21444.9 -1235.1  
443 9.8 21524.5 -1233.9  
444 9.8 21526.2 -1240.3

445 9.8 21603.3 -1224.2  
446 9.5 21736.6 -1222.9  
447 9.4 21737.0 -1236.6  
448 8.8 21737.4 -1229.2  
449 9.6 21813.8 -1214.0  
450 9.5 21833.1 -1227.1  
451 4.7 21856.8 -1256.7  
452 9.2 21909.3 -1231.1  
453 9.0 21940.3 -1231.6  
454 9.0 22023.7 -1242.0

455 9.6 22042.2 -1221.7  
456 8.4 22045.1 -1237.7  
457 8.0 22118.2 -1222.0  
458 9.6 22131.9 -1256.5  
459 9.5 22204.7 -1207.9  
460 9.5 22213.8 -1249.9  
461 9.0 22217.7 -1242.8  
462 8.5 22222.7 -1237.2  
463 9.2 22223.9 -1203.4  
464 8.9 22251.9 -1214.2

465 10. 22301.2 -1203.1  
466 10. 22306.0 -1212.3  
467 9.0 22307.1 -1253.5  
468 9.5 22318.3 -1239.0  
469 8.2 22350.5 -1252.0  
470 9.8 22413.5 -1224.5  
471 9.0 22415.7 -1237.4  
472 9.4 22440.9 -1248.8  
473 9.9 22442.6 -1229.6  
474 9.5 22445.3 -1218.5

475 9.5 22455.8 -1243.0  
476 9.8 22532.2 -1238.1  
477 9.4 22537.4 -1247.0  
478 7.5 22548.1 -1205.5  
479 9.0 22601.5 -1247.2  
480 9.0 22605.4 -1239.6  
481 7.0 22656.6 -1257.9  
482 9.5 22703.0 -1254.1  
483 9.7 22730.3 -1218.1  
484 9.7 22740.4 -1234.3

485 9.6 22759.9 -1222.6  
486 9.2 22838.7 -1233.8  
487 9.5 22843.6 -1200.7  
488 8.3 22846.4 -1239.8  
489 9.0 22925.2 -1253.4  
490 9.4 22941.9 -1222.5  
491 9.6 22956.6 -1226.8  
492 9.0 23010.7 -1256.8  
493 9.2 23014.6 -1234.3  
494 10. 23055.7 -1256.0

495 9.1 23056.5 -1222.5  
496 8.4 23108.2 -1201.1  
497 9.1 23125.4 -1217.0  
498 10. 23138.5 -1239.8  
499 9.1 23210.8 -1210.0  
500 8.2 23216.6 -1222.1  
501 4.7 23232.9 -1229.4  
502 9.3 23305.3 -1254.4  
503 9.1 23318.7 -1247.7  
504 9.9 23336.8 -1203.5

505 9.2 23347.2 -1228.5  
506 9.2 23424.0 -1212.7  
507 10. 23427.4 -1231.9  
508 9.9 23428.4 -1227.6  
509 9.3 23454.8 -1204.8  
510 8.9 23517.3 -1251.1  
511 9.0 23527.5 -1255.9  
512 9.0 23556.3 -1247.2  
513 9.3 23611.1 -1237.6  
514 9.9 23615.9 -1259.2

515 8.4 23644.6 -1230.7  
516 9.2 23653.2 -1218.8  
517 8.8 23737.4 -1206.8  
518 9.4 23745.5 -1256.4  
519 8.3 23814.9 -1244.6  
520 9.5 23818.8 -1244.1  
521 9.1 23841.3 -1239.6  
522 9.5 23948.1 -1208.8  
523 9.7 24039.4 -1232.5  
524 9.5 24051.7 -1218.4

525 9.4 24108.2 -1221.9  
526 9.1 24225.0 -1247.1  
527 9.7 24233.8 -1233.2  
528 9.8 24255.1 -1206.3  
529 9.5 24312.4 -1218.8  
530 9.2 24323.7 -1244.1  
531 8.6 24324.2 -1207.6  
532 9.0 24333.1 -1208.3  
533 9.8 24352.3 -1248.2  
534 9.7 24400.2 -1225.5

535 9.1 24426.7 -1205.9  
536 9.3 24454.4 -1219.5  
537 9.1 24506.5 -1212.2  
538 9.3 24509.6 -1252.4  
539 9.2 24525.5 -1232.3  
540 9.0 24540.2 -1233.5  
541 10. 24553.7 -1238.2  
542 9.8 24557.3 -1218.2  
543 9.4 24609.2 -1214.2  
544 9.1 24617.4 -1248.2

545 9.7 24621.6 -1231.5  
546 9.4 24627.4 -1231.3  
547 9.3 24633.3 -1227.0  
548 9.1 24637.2 -1205.2  
549 9.5 24645.1 -1258.8  
550 10. 24654.6 -1258.5  
551 9.8 24655.3 -1216.8  
552 10. 24727.5 -1237.8  
553 9.4 24741.2 -1207.0  
554 8.9 24834.4 -1217.6

555 8.5 24841.1 -1256.9  
556 10. 24901.9 -1240.4  
557 9.5 24909.5 -1201.7  
558 9.5 24915.4 -1226.5  
559 9.5 24925.9 -1214.6  
560 9.8 24953.1 -1255.0  
561 10. 25002.3 -1211.8  
562 9.9 25004.6 -1233.6  
563 9.5 25031.8 -1247.5  
564 8.5 25040.5 -1219.9

565 9.2 25103.5 -1246.9  
566 9.6 25115.9 -1235.5  
567 9.2 25125.3 -1241.6  
568 10. 25129.0 -1210.2  
569 10. 25135.9 -1256.7  
570 9.7 25136.3 -1202.4  
571 9.7 25157.5 -1233.9  
572 9.8 25216.6 -1254.9  
573 10. 25247.6 -1256.2  
574 9.3 25256.0 -1224.4

575 9.4 25209.5 -1219.2  
576 7.5 25221.4 -1202.2  
577 9.5 25278.1 -1250.8  
578 9.8 25344.0 -1217.2  
579 9.0 25333.7 -1253.0  
580 9.7 25521.9 -1206.5  
581 8.5 25535.3 -1259.6  
582 9.8 25553.3 -1229.6  
583 9.4 25611.9 -1257.5  
584 9.1 25626.1 -1229.3

585 9.6 25626.7 -1229.9  
586 9.5 25636.0 -1255.0  
587 9.5 25650.6 -1259.2  
588 9.1 25718.2 -1257.0  
589 9.7 25729.2 -1224.2  
590 8.0 25754.4 -1244.5  
591 9.5 25811.3 -1238.6  
592 8.8 25814.0 -1203.0  
593 9.4 25829.5 -1226.6  
594 9.5 25855.8 -1225.0

595 9.6 25957.1 -1210.8  
596 9.4 30002.5 -1217.7  
597 9.2 30005.9 -1234.9  
598 9.5 30037.9 -1214.9  
599 9.5 30052.6 -1252.2  
600 7.8 30105.2 -1235.9  
601 9.6 30110.4 -1228.2  
602 9.4 30147.5 -1249.6  
603 8.4 30219.6 -1217.1  
604 9.5 30227.5 -1245.3

605 9.4 30318.1 -1232.7  
606 8.9 30337.7 -1212.1  
607 9.7 30401.8 -1228.6  
608 10. 30409.9 -1212.2  
609 9.4 30424.3 -1207.6  
610 9.1 30500.8 -1232.0  
611 9.0 30509.5 -1212.0  
612 9.5 30524.8 -1214.5  
613 9.4 30526.9 -1229.7  
614 8.7 30533.0 -1210.1

615 9.2 30541.6 -1253.7  
616 9.8 30547.7 -1223.0  
617 9.5 30632.6 -1231.1  
618 9.0 30638.0 -1203.7  
619 8.9 30703.5 -1248.3  
620 9.7 30732.2 -1232.3  
621 9.3 30750.4 -1244.6  
622 9.4 30824.4 -1241.6  
623 9.4 30837.6 -1252.3  
624 9.5 30846.3 -1234.6

625 9.2 30904.0 -1227.2  
626 9.7 30909.2 -1233.9  
627 7.2 30920.8 -1231.5  
628 10. 30924.6 -1232.7  
629 9.8 30954.2 -1253.8  
630 9.5 31023.9 -1228.2  
631 9.5 31036.7 -1254.5  
632 8.5 31052.5 -1245.4  
633 9.0 31054.3 -1223.5  
634 9.0 31211.2 -1256.0

635 9.1 31317.5 -1226.9  
636 9.9 31420.8 -1231.4  
637 9.5 31426.0 -1221.8  
638 9.5 31430.3 -1227.6  
639 9.8 31436.7 -1255.2  
640 8.0 31505.8 -1251.0  
641 8.3 31541.7 -1213.4  
642 9.5 31557.1 -1220.1  
643 9.5 31608.1 -1250.6  
644 9.4 31620.2 -1210.5

645 10. 31648.6 -1204.1  
646 9.4 31706.1 -1251.2  
647 9.1 31722.2 -1201.3  
648 8.8 31804.6 -1231.3  
649 9.0 31817.4 -1252.0  
650 10. 31830.8 -1229.8  
651 9.7 31854.5 -1213.2  
652 9.8 31856.7 -1200.0  
653 9.8 32002.6 -1239.0  
654 10. 32004.5 -1243.7

655 9.4 32022.7 -1247.0  
656 9.3 32027.9 -1208.9  
657 9.3 32032.9 -1259.6  
658 9.4 32045.3 -1212.4  
659 9.8 32053.1 -1256.6  
660 9.3 32209.2 -1240.1  
661 8.5 32219.6 -1235.3  
662 9.7 32225.4 -1210.3  
663 9.5 32249.4 -1230.3  
664 9.1 32309.3 -1258.3

665 9.6 32316.0 -1249.6  
666 7.0 32318.8 -1208.7  
667 9.2 32411.6 -1223.2  
668 9.3 32422.5 -1214.1  
669 9.3 32436.1 -1219.0  
670 9.0 32445.5 -1255.7  
671 9.5 32528.9 -1244.2  
672 8.6 32534.3 -1227.6  
673 9.6 32705.2 -1222.4  
674 8.8 32723.4 -1233.4

675 9.5 32734.1 -1227.2  
676 8.0 32746.5 -1246.8  
677 9.5 32855.9 -1234.8  
678 9.5 33023.2 -1202.4  
679 9.8 33051.1 -1242.3  
680 8.5 33100.3 -1201.6  
681 7.8 33117.3 -1243.2  
682 9.8 33135.5 -1242.8  
683 9.5 33220.0 -1217.7  
684 9.4 33223.8 -1222.2

685 9.6 33237.7 -1248.6  
686 8.8 33259.8 -1209.0  
687 8.7 33314.8 -1232.2  
688 9.1 33336.9 -1210.8  
689 6.8 33421.2 -1216.1  
690 9.5 33435.2 -1218.3  
691 9.5 33438.7 -1259.1  
692 9.8 33439.0 -1229.1  
693 10. 33453.4 -1211.4  
694 9.0 33509.7 -1248.5

695 9.9 33516.4 -1234.9  
696 10. 33528.8 -1249.5  
697 9.8 33617.4 -1254.8  
698 8.5 33629.9 -1210.5  
699 9.5 33632.3 -1201.6  
700 9.2 33641.0 -1226.8  
701 9.1 33727.7 -1248.0  
702 8.0 33738.3 -1231.0  
703 9.0 33753.9 -1214.8  
704 9.4 33824.8 -1258.6

705 9.5 33825.0 -1231.9  
706 10. 33914.3 -1248.4  
707 4.3 33917.2 -1233.4  
708 9.0 33946.4 -1253.0  
709 10. 33955.8 -1256.2  
710 9.8 33956.6 -1242.1  
711 9.1 34032.9 -1253.5  
712 9.5 34105.7 -1243.3  
713 9.4 34110.7 -1210.4  
714 9.2 34111.3 -1248.8

715 10. 34125.1 -1255.5  
716 8.5 34137.0 -1213.1  
717 9.3 34148.3 -1248.7  
718 9.5 34200.6 -1220.9  
719 9.2 34202.6 -1230.3  
720 9.1 34222.0 -1203.0  
721 9.9 34235.9 -1231.4  
722 9.8 34301.4 -1207.4  
723 9.5 34308.8 -1202.7  
724 10. 34315.5 -1253.2

725 8.9 34324.0 -1210.8  
726 9.5 34335.8 -1233.8  
727 8.8 34340.3 -1247.0  
728 9.5 34342.6 -1236.5  
729 8.0 34345.1 -1236.0  
730 9.6 34354.6 -1231.8  
731 8.9 34407.5 -1218.3  
732 10. 34422.6 -1204.7  
733 9.5 34442.2 -1204.9  
734 10. 34446.7 -1235.1

735 9.1 34450.9 -1205.7  
736 10. 34453.4 -1251.8  
737 7.5 34504.2 -1224.5  
738 9.4 34531.6 -1230.3  
739 9.2 34607.5 -1225.1  
740 9.8 34620.0 -1251.5  
741 9.8 34630.6 -1245.5  
742 10. 34630.6 -1251.6  
743 9.2 34639.1 -1253.5  
744 7.5 34711.6 -1253.1

745 9.7 34731.3 -1232.2  
746 8.5 34757.6 -1214.5  
747 10. 34800.9 -1200.7  
748 9.3 34812.6 -1205.9  
749 9.7 34815.2 -1220.8  
750 10. 34820.4 -1252.9  
751 9.8 34821.4 -1202.5  
752 6.1 34826.7 -1231.6  
753 9.5 34842.9 -1248.0  
754 9.4 34918.2 -1213.3

755 10. 34956.9 -1200.2  
756 8.9 35056.3 -1219.4  
757 9.6 35109.1 -1234.2  
758 9.9 35110.8 -1225.5  
759 9.7 35118.2 -1221.4  
760 9.3 35124.7 -1257.1  
761 10. 35126.0 -1248.9  
762 9.0 35156.8 -1200.0  
763 9.6 35200.1 -1210.7  
764 8.5 35218.5 -1247.4

765 9.1 35221.5 -1220.8  
766 5.5 35242.4 -1259.4  
767 9.4 35250.4 -1249.6  
768 8.2 35319.8 -1249.7  
769 9.6 35344.3 -1233.9  
770 10. 35415.7 -1226.0  
771 9.6 35440.9 -1200.6  
772 9.5 35457.2 -1215.8  
773 9.9 35501.9 -1232.9  
774 10. 35515.7 -1251.4

-12 774 3h55m



-12 775 3h55m

775 9.9 35521.4 -1221.5  
776 10. 35540.8 -1235.5  
777 9.3 35543.2 -1252.4  
778 9.9 35550.0 -1242.6  
779 9.7 35601.8 -1258.0  
780 9.1 35615.7 -1213.5  
781 9.4 35617.7 -1214.2  
782 9.2 35628.9 -1259.4  
783 9.9 35656.4 -1224.5  
784 8.3 35712.4 -1209.0

785 10. 35724.7 -1231.8  
786 8.9 35730.8 -1254.8  
787 9.7 35744.0 -1232.6  
788 8.5 35756.2 -1212.3  
789 8.0 35806.4 -1211.8  
790 10. 35826.1 -1242.9  
791 9.5 35827.9 -1220.6  
792 9.8 35843.9 -1218.8  
793 8.4 35853.0 -1201.1  
794 9.5 35857.0 -1227.1

795 9.4 35905.5 -1205.0  
796 9.0 35908.0 -1205.4  
797 9.8 35928.1 -1247.3  
798 8.7 35929.2 -1218.2  
799 10. 40000.5 -1209.7  
800 9.5 40012.3 -1251.9  
801 9.4 40012.6 -1209.7  
802 9.9 40039.5 -1213.1  
803 9.1 40116.4 -1254.3  
804 9.8 40118.7 -1232.4

805 9.7 40133.0 -1211.6  
806 8.5 40158.5 -1258.3  
807 8.4 40237.4 -1222.6  
808 9.5 40250.2 -1215.8  
809 10. 40255.6 -1247.4  
810 7.3 40257.4 -1256.7  
811 9.4 40309.9 -1244.0  
812 9.8 40329.1 -1208.9  
813 10. 40347.8 -1251.3  
814 9.3 40405.2 -1215.1

815 9.8 40408.7 -1227.3  
816 9.9 40414.3 -1229.0  
817 9.5 40455.2 -1227.6  
818 9.5 40457.7 -1209.7  
819 9.1 40518.5 -1254.5  
820 9.8 40519.9 -1229.7  
821 9.4 40538.8 -1218.2  
822 10. 40626.7 -1214.3  
823 8.2 40635.1 -1240.0  
824 9.8 40645.8 -1251.4

825 9.7 40658.1 -1258.7  
826 9.6 40702.5 -1235.1  
827 9.3 40713.7 -1244.7  
828 9.1 40714.3 -1231.1  
829 9.0 40730.4 -1233.8  
830 9.6 40732.2 -1245.8  
831 9.4 40758.9 -1224.7  
832 9.8 40823.8 -1208.5  
833 9.5 40823.9 -1249.8  
834 9.1 40840.8 -1249.1

835 9.3 40845.0 -1204.0  
836 9.5 40908.1 -1257.4  
837 9.5 40915.7 -1243.6  
838 9.5 40939.3 -1230.7  
839 9.0 40944.9 -1248.4  
840 9.2 40951.0 -1253.8  
841 9.8 41003.1 -1251.4  
842 9.7 41005.7 -1243.8  
843 9.8 41017.2 -1229.0  
844 9.5 41019.5 -1200.9

845 9.8 41020.7 -1231.8  
846 9.2 41028.6 -1258.4  
847 9.1 41034.8 -1214.2  
848 9.8 41043.0 -1214.0  
849 9.3 41057.8 -1211.4  
850 9.4 41101.1 -1210.5  
851 9.7 41111.0 -1209.6  
852 9.8 41125.4 -1250.6  
853 9.8 41129.5 -1253.3  
854 9.8 41146.8 -1256.2

855 9.3 41158.3 -1205.3  
856 9.9 41208.1 -1256.6  
857 9.8 41245.6 -1256.6  
858 6.5 41306.4 -1245.1  
859 8.9 41308.3 -1234.0  
860 10. 41338.7 -1209.1  
861 9.1 41406.0 -1224.3  
862 8.7 41411.6 -1216.3  
863 8.9 41412.5 -1252.6  
864 9.1 41421.4 -1249.3

865 9.8 41433.2 -1212.3  
866 9.0 41452.5 -1200.0  
867 9.1 41510.6 -1205.6  
868 9.1 41515.7 -1206.4  
869 9.1 41524.4 -1248.0  
870 9.7 41559.8 -1214.9  
871 9.0 41615.6 -1254.2  
872 9.2 41617.0 -1219.8  
873 9.5 41622.1 -1232.3  
874 9.6 41639.6 -1225.6

875 10. 41640.3 -1242.1  
876 9.1 41706.3 -1251.4  
877 8.5 41707.7 -1253.9  
878 9.5 41718.7 -1237.8  
879 9.5 41731.7 -1230.8  
880 8.7 41742.8 -1251.6  
881 9.5 41743.2 -1208.7  
882 8.5 41748.7 -1238.1  
883 10. 41806.7 -1258.1  
884 9.4 41807.3 -1211.1

885 9.7 41809.0 -1229.7  
886 9.4 41810.4 -1235.1  
887 9.3 41907.3 -1258.8  
888 9.5 41908.5 -1208.8  
889 9.9 41909.7 -1217.9  
890 10. 41916.1 -1251.0  
891 9.9 41931.2 -1229.7  
892 9.7 41940.0 -1244.3  
893 9.5 41948.6 -1205.7  
894 9.7 42012.7 -1217.7

895 10. 42038.3 -1210.5  
896 8.5 42044.9 -1258.3  
897 9.2 42046.8 -1257.5  
898 9.7 42048.8 -1211.9  
899 8.8 42058.3 -1227.4  
900 8.7 42109.2 -1220.1  
901 9.4 42109.7 -1253.6  
902 9.2 42114.0 -1218.5  
903 8.2 42116.5 -1219.2  
904 8.2 42124.2 -1235.3

905 9.5 42150.9 -1228.8  
906 7.8 42151.5 -1216.8  
907 9.7 42208.4 -1214.8  
908 8.8 42219.9 -1232.0  
909 9.1 42233.0 -1244.9  
910 9.4 42308.9 -1219.1  
911 9.6 42323.8 -1214.2  
912 10. 42331.9 -1229.7  
913 9.9 42336.1 -1234.3  
914 9.1 42400.1 -1229.0

915 7.0 42511.1 -1256.6  
916 9.9 42517.5 -1207.4  
917 9.7 42520.4 -1235.7  
918 9.0 42525.0 -1237.6  
919 9.3 42532.7 -1205.4  
920 9.2 42537.7 -1251.8  
921 9.6 42611.6 -1219.7  
922 8.7 42619.9 -1226.6  
923 7.0 42621.5 -1250.9  
924 9.4 42627.6 -1226.9

925 9.5 42642.2 -1246.9  
926 9.6 42659.8 -1208.5  
927 9.0 42702.5 -1249.0  
928 9.1 42711.0 -1216.1  
929 8.9 42739.1 -1201.2  
930 9.6 42757.5 -1214.3  
931 9.6 42759.8 -1214.3  
932 9.8 42816.8 -1237.8  
933 9.5 42822.9 -1226.6  
934 9.1 42823.2 -1222.5

935 9.3 42826.0 -1222.8  
936 9.3 42852.4 -1208.2  
937 9.4 42856.6 -1241.7  
938 10. 42912.0 -1209.8  
939 9.8 42912.3 -1258.0  
940 9.8 42921.7 -1251.7  
941 9.5 42952.7 -1221.8  
942 10. 42954.7 -1246.9  
943 9.4 43000.1 -1226.7  
944 9.5 43001.7 -1251.1

945 10. 43005.0 -1213.0  
946 9.7 43012.2 -1244.2  
947 8.1 43028.8 -1227.5  
948 8.5 43030.4 -1251.0  
949 9.0 43038.4 -1209.8  
950 9.6 43058.1 -1242.6  
951 10. 43103.3 -1206.9  
952 9.2 43106.2 -1210.5  
953 9.2 43132.2 -1230.9  
954 9.4 43200.9 -1230.3

955 5.8 43207.8 -1224.5  
956 10. 43231.2 -1237.1  
957 10. 43231.5 -1243.6  
958 8.4 43239.8 -1249.0  
959 9.5 43251.6 -1249.4  
960 9.5 43254.0 -1236.5  
961 9.0 43303.3 -1249.0  
962 9.8 43325.8 -1223.0  
963 9.1 43335.7 -1223.7  
964 9.0 43340.3 -1203.1

965 9.1 43419.1 -1215.2  
966 9.4 43440.8 -1204.0  
967 9.9 43445.4 -1210.9  
968 9.8 43455.9 -1228.4  
969 6.9 43457.6 -1245.4  
970 8.8 43528.6 -1226.4  
971 9.9 43601.6 -1220.0  
972 10. 43609.1 -1237.3  
973 8.8 43702.4 -1234.3  
974 9.8 43715.5 -1212.2

975 9.3 43736.7 -1256.4  
976 9.8 43810.4 -1222.5  
977 9.1 43812.0 -1227.6  
978 9.1 43827.5 -1252.6  
979 9.8 43842.3 -1241.0  
980 9.8 43852.0 -1250.1  
981 9.4 43853.4 -1206.7  
982 7.7 43904.6 -1212.8  
983 9.8 43937.8 -1243.9  
984 10. 43938.1 -1212.0

985 9.6 43950.6 -1228.2  
986 10. 43951.0 -1218.5  
987 9.5 43951.9 -1253.2  
988 9.3 44022.1 -1237.1  
989 10. 44028.7 -1221.0  
990 9.1 44040.2 -1215.4  
991 9.4 44042.3 -1241.1  
992 9.8 44057.2 -1235.2  
993 9.5 44059.9 -1202.1  
994 9.5 44130.7 -1232.1

995 9.6 44137.3 -1241.1  
996 9.5 44144.8 -1258.3  
997 8.0 44146.3 -1200.7  
998 9.8 44201.9 -1244.9  
999 9.6 44213.2 -1218.5  
1000 9.9 44219.1 -1203.7  
1001 9.8 44248.7 -1255.6  
1002 8.0 44255.2 -1217.4  
1003 7.9 44301.8 -1200.0  
1004 8.8 44322.5 -1234.3

1005 9.3 44323.5 -1206.9  
1006 9.8 44348.5 -1233.1  
1007 9.0 44415.5 -1229.6  
1008 9.8 44425.5 -1225.4  
1009 9.7 44447.0 -1228.9  
1010 8.0 44455.4 -1211.7  
1011 8.2 44504.3 -1259.2  
1012 9.4 44528.2 -1237.3  
1013 10. 44545.0 -1205.7  
1014 8.5 44556.4 -1222.6

1015 9.9 44619.3 -1215.7  
1016 10. 44635.7 -1212.8  
1017 9.8 44643.3 -1242.2  
1018 9.2 44646.5 -1202.5  
1019 9.1 44713.6 -1252.5  
1020 8.0 44715.8 -1242.2  
1021 9.0 44745.1 -1209.4  
1022 9.6 44751.9 -1243.5  
1023 9.8 44809.4 -1239.7  
1024 9.8 44852.0 -1222.8

1025 9.5 44858.8 -1215.6  
1026 9.4 44900.2 -1253.4  
1027 9.5 44903.4 -1227.7  
1028 9.3 44907.8 -1238.4  
1029 9.1 44934.3 -1202.2  
1030 9.8 44934.6 -1238.3  
1031 8.2 45010.1 -1246.4  
1032 9.0 45012.7 -1208.5  
1033 10. 45021.4 -1220.2  
1034 9.0 45038.9 -1256.8

1035 8.6 45123.4 -1257.5  
1036 9.5 45134.2 -1251.2  
1037 9.7 45138.7 -1251.2  
1038 9.7 45139.9 -1228.2  
1039 9.5 45151.2 -1212.7  
1040 8.7 45152.2 -1227.4  
1041 8.2 45223.0 -1259.1  
1042 9.1 45224.0 -1202.1  
1043 10. 45227.1 -1207.5  
1044 9.1 45239.5 -1243.8

-12 1134 5h13m

1045 9.8 45249.6 -1228.6  
1046 10. 45310.0 -1216.7  
1047 4.8 45310.7 -1245.1  
1048 9.4 45327.7 -1218.8  
1049 9.7 45336.5 -1243.1  
1050 9.8 45341.6 -1245.2  
1051 10. 45436.0 -1257.4  
1052 9.5 45448.4 -1252.6  
1053 9.5 45536.1 -1212.9  
1054 8.5 45550.0 -1251.3

1055 9.3 45551.8 -1243.7  
1056 8.9 45602.6 -1206.6  
1057 10. 45612.5 -1255.0  
1058 8.3 45613.6 -1238.7  
1059 9.8 45642.9 -1247.7  
1060 9.9 45644.1 -1204.2  
1061 9.3 45704.9 -1232.2  
1062 9.0 45710.6 -1222.7  
1063 9.3 45738.3 -1212.1  
1064 9.7 45758.8 -1243.1

1065 9.7 45800.7 -1258.8  
1066 10. 45807.6 -1252.0  
1067 9.9 45818.3 -1224.7  
1068 8.6 45825.8 -1232.0  
1069 9.7 45858.5 -1227.2  
1070 9.5 45914.5 -1230.5  
1071 9.6 45928.0 -1228.0  
1072 9.5 45941.0 -1209.5  
1073 10. 50003.6 -1225.6  
1074 9.7 50018.2 -1219.9

1075 8.0 50037.9 -1203.8  
1076 6.2 50041.0 -1240.7  
1077 9.5 50045.6 -1233.4  
1078 9.3 50054.9 -1225.6  
1079 9.5 50106.0 -1216.4  
1080 7.0 50106.2 -1246.5  
1081 9.8 50116.7 -1248.8  
1082 9.2 50203.0 -1239.4  
1083 10. 50227.0 -1238.4  
1084 8.0 50246.1 -1213.0

1085 9.5 50251.3 -1251.3  
1086 9.5 50257.5 -1258.0  
1087 10. 50303.6 -1232.4  
1088 10. 50312.9 -1236.1  
1089 9.3 50407.2 -1247.8  
1090 9.0 50417.0 -1242.0  
1091 9.2 50427.6 -1259.9  
1092 6.5 50436.9 -1201.8  
1093 9.5 50450.4 -1255.3  
1094 9.1 50452.4 -1225.0

1095 5.0 50531.9 -1202.7  
1096 9.0 50542.9 -1235.6  
1097 9.5 50610.1 -1213.4  
1098 8.5 50613.2 -1221.0  
1099 9.2 50632.2 -1224.6  
1100 9.5 50633.5 -1258.8  
1101 9.5 50643.3 -1251.3  
1102 9.5 50655.6 -1236.2  
1103 10. 50728.0 -1213.0  
1104 9.0 50732.0 -1227.7

1105 9.5 50752.3 -1224.5  
1106 9.5 50807.1 -1207.5  
1107 10. 50819.7 -1231.5  
1108 8.5 50819.8 -1221.8  
1109 9.2 50824.1 -1241.8  
1110 8.5 50835.6 -1253.3  
1111 8.5 50839.6 -1258.7  
1112 8.3 50902.9 -1231.6  
1113 9.2 50903.1 -1211.2  
1114 9.8 50910.0 -1205.8

1115 9.0 50925.2 -1218.3  
1116 9.5 50940.5 -1252.0  
1117 8.7 50941.6 -1235.2  
1118 9.5 50954.0 -1237.9  
1119 9.3 51004.3 -1246.4  
1120 9.5 51029.1 -1238.6  
1121 9.9 51032.6 -1224.4  
1122 9.5 51052.6 -1253.4  
1123 8.5 51100.6 -1256.9  
1124 8.4 51107.0 -1225.9

1125 9.5 51114.5 -1235.1  
1126 9.5 51128.1 -1238.6  
1127 9.8 51204.8 -1230.0  
1128 10. 51214.1 -1239.4  
1129 9.7 51216.4 -1222.2  
1130 9.7 51217.9 -1222.3  
1131 10. 51231.0 -1236.9  
1132 6.2 51314.3 -1227.7  
1133 9.7 51335.0 -1231.9  
1134 9.5 51337.0 -1201.2



-12 1135 5h13m

1135 9.0 51339.6 -1211.0  
1136 9.0 51361.3 -1220.4  
1137 9.5 51408.4 -1227.5  
1138 9.4 51419.1 -1207.0  
1139 9.5 51424.2 -1214.1  
1140 10. 51452.6 -1257.3  
1141 10. 51516.4 -1251.5  
1142 8.7 51521.2 -1216.3  
1143 9.6 51525.4 -1221.5  
1144 10. 51553.7 -1259.0

1145 9.7 51604.2 -1217.7  
1146 9.5 51609.7 -1205.1  
1147 9.6 51610.2 -1219.2  
1148 9.3 51629.6 -1226.4  
1149 9.5 51640.0 -1235.6  
1150 9.0 51650.2 -1206.9  
1151 9.0 51651.9 -1203.2  
1152 9.0 51653.0 -1200.6  
1153 9.5 51706.2 -1241.0  
1154 9.0 51717.1 -1215.7

1155 9.5 51731.1 -1236.6  
1156 9.8 51834.4 -1253.6  
1157 7.0 51837.7 -1240.6  
1158 10. 51844.5 -1247.3  
1159 9.5 51845.5 -1223.3  
1160 9.5 51926.2 -1218.5  
1161 9.7 51928.2 -1217.6  
1162 9.5 51935.8 -1259.7  
1163 10. 51936.7 -1248.7  
1164 9.1 51937.2 -1233.3

1165 9.7 51938.3 -1219.3  
1166 10. 51949.7 -1249.8  
1167 9.5 51952.3 -1220.6  
1168 10. 52003.9 -1247.2  
1169 6.5 52020.0 -1201.3  
1170 9.7 52021.0 -1233.5  
1171 10. 52022.1 -1215.3  
1172 9.2 52045.0 -1249.0  
1173 9.3 52119.6 -1254.3  
1174 9.0 52148.3 -1243.1

1175 9.5 52209.3 -1211.6  
1176 9.5 52215.8 -1216.5  
1177 10. 52217.1 -1204.4  
1178 10. 52220.3 -1242.6  
1179 9.0 52223.3 -1259.1  
1180 9.3 52245.2 -1209.3  
1181 10. 52321.4 -1246.1  
1182 8.0 52331.6 -1252.4  
1183 9.3 52335.0 -1226.1  
1184 10. 52346.2 -1201.3

1185 9.5 52353.6 -1228.1  
1186 9.5 52353.7 -1255.1  
1187 9.3 52400.2 -1258.7  
1188 9.6 52401.3 -1208.7  
1189 9.7 52402.3 -1231.6  
1190 9.3 52404.2 -1258.7  
1191 9.5 52457.2 -1207.5  
1192 9.7 52459.5 -1230.6  
1193 10. 52514.0 -1241.1  
1194 9.3 52523.1 -1224.8

1195 10. 52523.3 -1243.9  
1196 9.5 52544.2 -1239.5  
1197 10. 52551.4 -1223.6  
1198 9.8 52556.5 -1231.4  
1199 9.5 52611.8 -1258.3  
1200 9.0 52626.6 -1224.6  
1201 8.6 52707.3 -1234.2  
1202 9.8 52710.8 -1211.5  
1203 9.7 52722.3 -1202.7  
1204 9.0 52730.5 -1232.1

1205 9.6 52731.1 -1238.5  
1206 9.5 52815.6 -1250.9  
1207 9.5 52828.2 -1236.2  
1208 9.1 52830.8 -1230.5  
1209 10. 52848.8 -1215.3  
1210 9.9 52914.6 -1225.9  
1211 9.5 52915.4 -1244.2  
1212 8.8 52920.2 -1226.2  
1213 10. 53000.9 -1259.0  
1214 9.7 53025.5 -1245.0

1215 9.0 53031.2 -1228.6  
1216 9.5 53035.0 -1256.2  
1217 8.5 53052.5 -1247.3  
1218 10. 53053.3 -1239.3  
1219 9.0 53055.1 -1204.7  
1220 9.5 53113.3 -1241.0  
1221 9.3 53119.7 -1253.1  
1222 8.5 53132.9 -1232.5  
1223 9.5 53143.4 -1243.8  
1224 9.3 53152.6 -1249.9

1225 9.0 53210.7 -1251.2  
1226 9.3 53227.2 -1207.7  
1227 9.0 53242.2 -1209.8  
1228 9.5 53303.7 -1246.3  
1229 9.7 53313.4 -1218.6  
1230 10. 53327.0 -1246.2  
1231 10. 53332.2 -1206.1  
1232 8.0 53400.3 -1217.7  
1233 8.6 53412.1 -1224.0  
1234 9.0 53418.2 -1235.5

1235 9.8 53427.3 -1206.1  
1236 9.8 53430.3 -1215.5  
1237 8.5 53431.1 -1205.3  
1238 10. 53439.3 -1214.6  
1239 9.0 53506.2 -1208.4  
1240 7.2 53506.9 -1222.9  
1241 9.2 53513.5 -1236.7  
1242 9.0 53539.8 -1231.6  
1243 9.5 53545.6 -1203.7  
1244 9.5 53550.9 -1258.7

1245 8.0 53609.7 -1225.2  
1246 9.5 53702.3 -1226.1  
1247 9.7 53739.2 -1213.8  
1248 9.7 53745.4 -1216.9  
1249 9.2 53752.1 -1200.8  
1250 7.5 53757.6 -1250.2  
1251 9.5 53804.4 -1213.3  
1252 10. 53805.4 -1237.7  
1253 8.8 53814.3 -1209.8  
1254 9.3 53816.6 -1208.4

1255 9.5 53822.2 -1239.5  
1256 10. 53827.2 -1232.7  
1257 9.7 53829.0 -1258.6  
1258 7.7 53842.9 -1230.0  
1259 9.5 53856.3 -1208.3  
1260 7.8 53919.1 -1229.0  
1261 8.5 53926.5 -1219.9  
1262 10. 53928.6 -1244.8  
1263 9.4 53943.8 -1251.0  
1264 9.0 53944.8 -1251.9

1265 8.0 53949.6 -1247.0  
1266 9.5 53959.4 -1215.5  
1267 9.3 54018.8 -1251.0  
1268 9.5 54020.3 -1211.8  
1269 7.5 54031.8 -1251.9  
1270 9.5 54046.3 -1207.3  
1271 9.7 54053.4 -1237.2  
1272 9.5 54131.4 -1239.4  
1273 9.3 54144.0 -1259.9  
1274 9.5 54149.2 -1202.9

1275 9.0 54155.7 -1250.0  
1276 8.3 54207.3 -1223.0  
1277 10. 54213.2 -1203.8  
1278 10. 54242.6 -1226.2  
1279 10. 54243.9 -1245.3  
1280 8.5 54244.8 -1236.3  
1281 8.0 54248.4 -1216.2  
1282 9.5 54318.4 -1213.5  
1283 9.7 54337.9 -1257.1  
1284 10. 54340.3 -1208.6

1285 9.4 54350.1 -1226.9  
1286 10. 54352.6 -1229.6  
1287 9.5 54409.3 -1211.4  
1288 10. 54425.9 -1213.5  
1289 10. 54434.6 -1229.0  
1290 9.5 54444.4 -1217.5  
1291 9.2 54448.7 -1249.4  
1292 8.8 54500.2 -1203.3  
1293 10. 54504.3 -1217.8  
1294 9.5 54508.5 -1231.7

1295 9.3 54535.3 -1205.8  
1296 7.0 54556.6 -1248.2  
1297 9.0 54602.4 -1213.5  
1298 10. 54609.6 -1256.8  
1299 8.2 54621.3 -1240.4  
1300 10. 54623.6 -1226.5  
1301 9.0 54625.2 -1205.5  
1302 9.0 54626.5 -1220.2  
1303 9.0 54632.7 -1251.7  
1304 7.3 54711.5 -1225.8

1305 9.2 54713.3 -1276.3  
1306 9.5 54727.2 -1201.0  
1307 10. 54743.1 -1235.3  
1308 9.4 54749.6 -1254.5  
1309 9.4 54755.7 -1259.8  
1310 7.5 54816.7 -1259.1  
1311 9.8 54824.2 -1209.6  
1312 10. 54837.3 -1223.1  
1313 9.5 54843.4 -1247.4  
1314 9.5 54905.0 -1208.7

1315 10. 54923.5 -1251.2  
1316 10. 54943.0 -1236.5  
1317 10. 54949.5 -1253.0  
1318 9.7 55008.9 -1234.9  
1319 9.0 55046.5 -1258.9  
1320 9.5 55048.6 -1221.9  
1321 9.3 55107.4 -1236.2  
1322 9.7 55111.0 -1207.1  
1323 9.2 55120.3 -1245.1  
1324 9.0 55120.9 -1249.6

1325 8.5 55131.1 -1211.7  
1326 10. 55132.9 -1202.3  
1327 9.5 55140.7 -1248.6  
1328 10. 55206.9 -1255.3  
1329 9.8 55212.4 -1225.0  
1330 9.0 55279.1 -1220.8  
1331 10. 55283.9 -1205.5  
1332 8.4 55240.2 -1250.7  
1333 9.1 55243.6 -1243.1  
1334 10. 55250.9 -1225.4

1335 10. 55251.9 -1249.0  
1336 9.3 55324.0 -1240.5  
1337 6.0 55331.6 -1254.3  
1338 10. 55341.5 -1253.4  
1339 10. 55342.4 -1223.7  
1340 8.5 55348.1 -1210.2  
1341 9.2 55352.6 -1256.5  
1342 9.2 55356.4 -1224.0  
1343 10. 55410.4 -1224.0  
1344 9.7 55413.0 -1205.7

1345 9.7 55432.0 -1238.1  
1346 9.5 55455.5 -1253.2  
1347 8.5 55500.9 -1201.6  
1348 9.0 55515.5 -1231.1  
1349 9.5 55515.9 -1223.5  
1350 9.5 55520.1 -1222.6  
1351 9.3 55521.3 -1239.4  
1352 9.4 55526.6 -1254.2  
1353 9.0 55541.3 -1244.2  
1354 9.6 55542.1 -1223.4

1355 9.5 55543.3 -1222.1  
1356 10. 55551.2 -1215.4  
1357 8.7 55552.7 -1257.7  
1358 9.8 55552.7 -1249.4  
1359 9.0 55554.1 -1210.0  
1360 9.7 55556.7 -1257.9  
1361 9.0 55625.0 -1207.5  
1362 9.5 55634.2 -1239.8  
1363 9.5 55704.2 -1215.0  
1364 9.7 55711.4 -1227.1

1365 9.5 55738.5 -1251.5  
1366 9.0 55817.3 -1219.0  
1367 9.7 55828.5 -1213.4  
1368 9.4 55839.0 -1255.5  
1369 9.5 55913.1 -1213.8  
1370 9.5 55915.9 -1204.0  
1371 9.8 55921.3 -1246.6  
1372 10. 55921.7 -1240.8  
1373 9.8 55927.8 -1232.6  
1374 9.7 55934.3 -1247.1

1375 8.8 55937.8 -1230.6  
1376 9.0 55955.3 -1249.6  
1377 10. 60004.8 -1258.4  
1378 9.4 60008.9 -1233.6  
1379 8.0 60012.9 -1202.8  
1380 9.3 60018.2 -1241.1  
1381 9.5 60021.2 -1215.3  
1382 9.0 60035.1 -1211.8  
1383 9.5 60040.4 -1223.9  
1384 8.5 60055.9 -1201.1

1385 9.5 60107.2 -1218.0  
1386 9.5 60114.3 -1244.7  
1387 10. 60127.2 -1276.2  
1388 10. 60127.6 -1230.9  
1389 10. 60132.4 -1250.5  
1390 10. 60204.6 -1235.4  
1391 8.5 60212.9 -1236.9  
1392 9.1 60223.4 -1254.8  
1393 9.5 60230.0 -1208.2  
1394 10. 60245.3 -1222.5

1395 10. 60252.1 -1213.5  
1396 8.5 60313.8 -1221.3  
1397 10. 60332.1 -1210.0  
1398 10. 60348.5 -1247.3  
1399 9.5 60357.2 -1217.1  
1400 9.5 60413.9 -1201.0  
1401 9.7 60414.8 -1225.6  
1402 9.0 60425.3 -1242.9  
1403 10. 60438.4 -1257.1  
1404 10. 60450.0 -1207.7

1405 8.5 60458.6 -1234.1  
1406 9.8 60529.1 -1200.8  
1407 8.8 60520.4 -1213.9  
1408 9.0 60537.3 -1243.7  
1409 9.3 60554.9 -1231.1  
1410 9.0 60559.8 -1227.2  
1411 9.6 60605.9 -1228.4  
1412 10. 60614.3 -1243.6  
1413 9.4 60638.2 -1227.5  
1414 10. 60638.3 -1253.8

1415 10. 60641.7 -1251.5  
1416 9.9 60651.1 -1241.5  
1417 9.5 60737.9 -1232.5  
1418 9.3 60744.6 -1201.3  
1419 8.5 60759.9 -1250.4  
1420 9.0 60807.0 -1217.8  
1421 8.9 60838.6 -1232.0  
1422 8.8 60904.2 -1240.7  
1423 8.8 60912.0 -1241.4  
1424 10. 60931.2 -1237.0

1425 9.5 60937.6 -1247.7  
1426 10. 61009.3 -1246.0  
1427 9.9 61015.2 -1232.5  
1428 8.8 61015.8 -1211.9  
1429 10. 61034.2 -1230.8  
1430 9.7 61037.3 -1234.6  
1431 9.0 61045.5 -1259.2  
1432 10. 61058.9 -1212.1  
1433 10. 61114.7 -1235.8  
1434 9.0 61127.5 -1254.7

1435 9.5 61129.8 -1220.4  
1436 9.1 61136.7 -1228.0  
1437 9.0 61142.6 -1203.0  
1438 8.7 61150.2 -1230.7  
1439 8.8 61157.2 -1237.6  
1440 9.2 61212.7 -1233.4  
1441 9.0 61217.5 -1229.0  
1442 8.0 61235.8 -1228.5  
1443 9.5 61239.7 -1230.5  
1444 9.8 61320.2 -1248.1

1445 9.3 61321.0 -1201.4  
1446 9.3 61321.4 -1200.4  
1447 9.8 61411.3 -1213.6  
1448 9.5 61424.2 -1240.0  
1449 9.5 61430.9 -1215.4  
1450 9.1 61435.1 -1236.6  
1451 9.8 61444.2 -1237.2  
1452 8.4 61444.7 -1204.4  
1453 9.6 61502.5 -1255.1  
1454 9.6 61513.6 -1204.4

1455 9.8 61525.1 -1228.6  
1456 9.5 61537.3 -1214.0  
1457 8.5 61549.4 -1253.2  
1458 10. 61551.2 -1236.0  
1459 9.7 61557.5 -1252.3  
1460 9.4 61600.8 -1211.3  
1461 9.4 61623.7 -1237.8  
1462 9.1 61626.0 -1254.3  
1463 9.0 61652.7 -1240.5  
1464 8.5 61701.5 -1230.2

1465 9.5 61704.7 -1239.5  
1466 9.4 61705.1 -1255.0  
1467 9.1 61705.9 -1234.5  
1468 9.8 61710.8 -1241.0  
1469 10. 61714.8 -1244.9  
1470 6.3 61729.4 -1253.4  
1471 9.5 61754.7 -1206.2  
1472 9.5 61806.5 -1227.4  
1473 9.1 61807.1 -1234.9  
1474 9.4 61812.3 -1248.2

1475 9.7 61814.6 -1233.0  
1476 9.1 61817.0 -1256.2  
1477 9.5 61819.1 -1242.0  
1478 9.8 61824.7 -1207.5  
1479 9.2 61824.8 -1218.2  
1480 9.0 61836.8 -1220.5  
1481 8.5 61838.0 -1209.9  
1482 9.3 61848.2 -1228.7  
1483 9.4 61901.8 -1246.7  
1484 9.5 61902.9 -1215.2

1485 9.2 61909.6 -1201.8  
1486 9.8 61912.3 -1247.7  
1487 9.4 61914.9 -1249.5  
1488 9.4 61929.9 -1231.2  
1489 10. 61931.2 -1256.6  
1490 9.3 61934.8 -1258.9  
1491 9.7 61941.6 -1214.0  
1492 9.4 62000.1 -1202.0  
1493 10. 62007.0 -1258.0  
1494 8.0 62031.8 -1245.2



-12 1495 6h20m

1495 9.7 62041.5 -1252.1  
1496 10. 62050.1 -1201.6  
1497 9.5 62100.4 -1249.6  
1498 10. 62101.7 -1240.9  
1499 9.4 62127.2 -1204.2  
1500 7.7 62136.5 -1257.5  
1501 9.8 62139.2 -1240.0  
1502 8.8 62139.8 -1246.5  
1503 7.6 62153.6 -1257.5  
1504 9.9 62224.5 -1205.0  
  
1505 9.1 62251.4 -1253.7  
1506 9.1 62256.2 -1206.1  
1507 8.2 62330.4 -1215.9  
1508 9.6 62332.6 -1205.4  
1509 9.4 62340.0 -1251.1  
1510 9.0 62351.1 -1223.1  
1511 9.3 62352.8 -1236.8  
1512 10. 62356.8 -1231.6  
1513 9.7 62358.8 -1236.1  
1514 10. 62406.6 -1215.5  
  
1515 9.1 62413.3 -1224.9  
1516 8.8 62414.0 -1244.2  
1517 9.3 62415.4 -1213.9  
1518 5.0 62438.9 -1217.2  
1519 8.5 62439.7 -1207.4  
1520 7.2 62441.9 -1227.5  
1521 9.9 62501.0 -1224.9  
1522 10. 62502.8 -1224.1  
1523 9.9 62510.1 -1227.5  
1524 9.9 62512.3 -1245.0  
  
1525 9.7 62523.0 -1220.8  
1526 10. 62530.2 -1231.1  
1527 10. 62532.3 -1233.3  
1528 9.7 62537.1 -1227.2  
1529 9.8 62539.1 -1228.9  
1530 9.4 62541.9 -1246.6  
1531 9.5 62543.2 -1239.2  
1532 10. 62550.8 -1229.0  
1533 9.7 62607.4 -1213.0  
1534 9.3 62612.5 -1239.2  
  
1535 9.1 62623.1 -1259.2  
1536 8.5 62625.6 -1247.5  
1537 9.3 62626.2 -1229.8  
1538 9.8 62638.2 -1207.0  
1539 9.4 62646.6 -1235.4  
1540 8.9 62648.1 -1200.5  
1541 10. 62656.8 -1228.5  
1542 9.1 62710.7 -1231.6  
1543 9.3 62730.7 -1210.4  
1544 9.0 62740.5 -1221.8  
  
1545 8.5 62806.1 -1207.3  
1546 9.8 62806.9 -1248.5  
1547 7.8 62819.7 -1229.8  
1548 9.8 62820.0 -1221.6  
1549 9.3 62831.9 -1257.9  
1550 9.4 62836.9 -1243.0  
1551 9.5 62851.9 -1242.0  
1552 9.8 62856.6 -1258.0  
1553 9.6 62905.2 -1204.6  
1554 9.5 62915.0 -1251.7  
  
1555 9.5 62919.6 -1202.8  
1556 9.0 62924.0 -1249.8  
1557 9.0 62924.3 -1243.1  
1558 9.4 62942.5 -1238.6  
1559 9.0 63010.5 -1243.8  
1560 9.3 63013.3 -1243.2  
1561 9.3 63016.1 -1204.7  
1562 8.6 63021.8 -1237.0  
1563 8.8 63044.7 -1233.6  
1564 9.8 63050.3 -1237.4  
  
1565 9.0 63051.5 -1242.1  
1566 6.8 63059.7 -1250.6  
1567 9.4 63105.0 -1243.4  
1568 9.4 63106.9 -1227.5  
1569 9.9 63132.3 -1222.4  
1570 9.5 63136.7 -1230.0  
1571 8.5 63143.8 -1255.3  
1572 9.3 63145.4 -1232.7  
1573 9.5 63151.1 -1211.5  
1574 9.6 63151.6 -1227.1  
  
1575 10. 63200.7 -1250.9  
1576 9.5 63240.7 -1207.8  
1577 10. 63252.0 -1242.0  
1578 9.5 63307.7 -1207.6  
1579 10. 63310.8 -1254.1  
1580 9.0 63328.0 -1232.5  
1581 9.2 63341.1 -1247.5  
1582 9.3 63351.6 -1254.2  
1583 9.2 63405.3 -1254.5  
1584 9.4 63409.6 -1230.1

1585 7.3 63413.9 -1202.8  
1586 9.7 63435.3 -1222.9  
1587 8.8 63447.4 -1258.5  
1588 8.5 63448.1 -1247.8  
1589 9.4 63448.8 -1227.8  
1590 9.5 63455.7 -1206.2  
1591 9.1 63533.3 -1230.7  
1592 10. 63535.5 -1240.3  
1593 9.1 63537.1 -1209.9  
1594 10. 63539.3 -1256.7  
  
1595 9.6 63540.0 -1251.8  
1596 9.4 63551.7 -1250.7  
1597 8.5 63558.1 -1247.9  
1598 9.1 63610.3 -1210.6  
1599 9.0 63623.9 -1216.1  
1600 9.8 63625.0 -1253.5  
1601 9.5 63636.0 -1231.3  
1602 8.5 63637.5 -1246.0  
1603 9.1 63644.3 -1256.2  
1604 9.8 63702.6 -1224.0  
  
1605 9.0 63704.2 -1242.3  
1606 10. 63719.8 -1234.5  
1607 8.8 63730.0 -1240.4  
1608 9.1 63732.7 -1215.7  
1609 9.2 63733.1 -1222.5  
1610 9.0 63755.3 -1242.9  
1611 9.5 63759.0 -1230.3  
1612 9.8 63810.8 -1257.5  
1613 9.4 63816.7 -1225.4  
1614 9.4 63824.1 -1201.4  
  
1615 9.5 63834.9 -1259.9  
1616 9.5 63839.3 -1256.6  
1617 9.8 63850.6 -1227.1  
1618 9.3 63852.6 -1229.3  
1619 9.3 63855.1 -1210.5  
1620 9.9 63922.7 -1251.6  
1621 9.4 63944.2 -1224.8  
1622 9.1 64005.6 -1245.9  
1623 7.8 64022.6 -1202.5  
1624 9.0 64023.0 -1242.0  
  
1625 9.3 64037.1 -1201.6  
1626 9.1 64037.2 -1238.8  
1627 9.4 64039.0 -1222.1  
1628 9.5 64041.1 -1212.2  
1629 9.2 64056.6 -1220.3  
1630 9.8 64100.5 -1254.3  
1631 9.5 64113.3 -1209.7  
1632 8.7 64118.7 -1219.2  
1633 9.8 64134.9 -1258.8  
1634 6.8 64145.0 -1241.1  
  
1635 9.0 64146.4 -1216.6  
1636 8.8 64150.2 -1205.0  
1637 9.5 64155.3 -1229.0  
1638 9.6 64209.0 -1208.3  
1639 9.4 64222.6 -1242.6  
1640 9.5 64225.1 -1223.3  
1641 9.8 64226.7 -1251.2  
1642 7.7 64232.3 -1230.5  
1643 9.0 64242.9 -1217.1  
1644 9.5 64245.1 -1246.7  
  
1645 9.2 64245.7 -1232.7  
1646 9.5 64302.2 -1208.2  
1647 9.5 64303.6 -1259.1  
1648 9.3 64306.7 -1251.3  
1649 9.3 64312.2 -1205.9  
1650 10. 64317.0 -1229.7  
1651 8.3 64318.7 -1248.1  
1652 7.6 64324.3 -1225.7  
1653 9.6 64353.4 -1246.5  
1654 9.1 64409.9 -1238.5  
  
1655 10. 64411.0 -1232.9  
1656 9.5 64420.7 -1258.0  
1657 9.8 64421.5 -1232.0  
1658 9.5 64430.2 -1212.5  
1659 10. 64440.0 -1242.9  
1660 9.2 64449.8 -1256.8  
1661 8.8 64456.7 -1232.4  
1662 9.1 64457.1 -1245.0  
1663 10. 64505.2 -1250.3  
1664 9.0 64511.4 -1257.5  
  
1665 8.9 64513.0 -1247.1  
1666 9.7 64523.9 -1208.5  
1667 9.5 64528.3 -1207.0  
1668 9.1 64553.2 -1208.7  
1669 9.2 64555.8 -1212.8  
1670 9.6 64558.8 -1255.0  
1671 9.5 64607.7 -1230.4  
1672 9.9 64613.7 -1250.6  
1673 9.3 64615.6 -1225.3  
1674 10. 64621.2 -1243.0

1675 9.6 64622.4 -1214.5  
1676 9.8 64624.1 -1243.3  
1677 9.1 64625.0 -1244.1  
1678 9.1 64625.9 -1248.1  
1679 9.7 64641.6 -1240.2  
1680 9.3 64648.2 -1207.6  
1681 9.4 64648.6 -1225.0  
1682 10. 64653.9 -1238.2  
1683 9.5 64655.2 -1253.1  
1684 9.8 64715.4 -1257.6  
  
1685 10. 64726.1 -1235.0  
1686 8.8 64730.9 -1242.4  
1687 9.3 64740.0 -1219.6  
1688 9.4 64743.2 -1209.8  
1689 9.2 64753.9 -1257.3  
1690 9.9 64755.8 -1250.6  
1691 9.5 64758.3 -1211.1  
1692 8.9 64802.6 -1230.2  
1693 9.0 64807.5 -1220.7  
1694 9.0 64820.1 -1235.7  
  
1695 10. 64823.5 -1255.0  
1696 9.1 64832.1 -1248.7  
1697 10. 64834.2 -1246.8  
1698 9.0 64839.7 -1206.0  
1699 9.5 64852.6 -1202.1  
1700 9.9 64913.2 -1249.3  
1701 9.7 64921.8 -1228.4  
1702 9.8 64934.0 -1219.6  
1703 9.0 64936.9 -1240.3  
1704 9.1 64941.1 -1247.4  
  
1705 9.4 64948.7 -1252.8  
1706 9.8 65005.5 -1232.6  
1707 10. 65016.8 -1251.5  
1708 9.3 65020.8 -1243.0  
1709 9.8 65021.2 -1237.4  
1710 9.3 65023.7 -1200.7  
1711 9.5 65038.1 -1245.4  
1712 9.6 65046.5 -1220.1  
1713 9.4 65049.0 -1242.1  
1714 8.5 65054.7 -1208.4  
  
1715 9.5 65059.0 -1252.8  
1716 9.5 65059.0 -1241.0  
1717 9.1 65059.0 -1209.8  
1718 9.7 65101.6 -1201.4  
1719 9.7 65102.7 -1207.8  
1720 9.2 65106.3 -1230.3  
1721 9.0 65115.1 -1246.4  
1722 9.0 65128.5 -1249.0  
1723 9.3 65131.1 -1242.7  
1724 9.0 65142.7 -1247.6  
  
1725 9.0 65157.0 -1219.2  
1726 9.0 65227.1 -1204.7  
1727 9.5 65229.6 -1243.1  
1728 8.8 65235.5 -1240.5  
1729 8.0 65253.0 -1248.0  
1730 9.8 65258.2 -1230.8  
1731 9.2 65320.5 -1225.8  
1732 9.4 65326.9 -1216.5  
1733 9.0 65339.8 -1235.3  
1734 9.3 65355.8 -1257.9  
  
1735 9.1 65359.0 -1238.4  
1736 8.7 65359.1 -1256.9  
1737 9.1 65408.5 -1239.0  
1738 9.4 65427.0 -1231.6  
1739 8.8 65445.7 -1207.5  
1740 8.2 65449.4 -1255.7  
1741 9.5 65454.2 -1206.0  
1742 9.2 65458.0 -1229.6  
1743 9.8 65509.0 -1236.8  
1744 9.5 65513.5 -1207.0  
  
1745 8.5 65524.4 -1218.0  
1746 9.1 65524.4 -1234.9  
1747 8.8 65532.2 -1224.8  
1748 9.5 65553.6 -1201.9  
1749 9.8 65555.0 -1251.5  
1750 8.0 65558.9 -1259.3  
1751 9.3 65600.2 -1248.4  
1752 8.0 65605.5 -1252.9  
1753 9.8 65625.8 -1210.0  
1754 10. 65627.3 -1241.9  
  
1755 10. 65628.8 -1227.5  
1756 9.0 65630.6 -1200.3  
1757 9.1 65634.5 -1205.9  
1758 9.8 65644.7 -1208.4  
1759 9.5 65702.7 -1208.5  
1760 8.7 65706.8 -1220.7  
1761 7.3 65711.8 -1252.8  
1762 9.0 65717.4 -1255.8  
1763 8.2 65718.6 -1204.5  
1764 9.1 65722.7 -1239.5

1765 9.5 65752.8 -1229.7  
1766 10. 65808.5 -1240.7  
1767 9.0 65809.3 -1255.9  
1768 10. 65823.0 -1238.0  
1769 9.8 65824.0 -1251.0  
1770 9.6 65827.5 -1237.2  
1771 8.5 65831.9 -1206.8  
1772 9.8 65840.2 -1245.8  
1773 9.6 65841.7 -1206.9  
1774 10. 65845.9 -1206.6  
  
1775 9.3 65853.7 -1200.6  
1776 10. 65855.1 -1220.3  
1777 7.3 65859.4 -1235.5  
1778 9.8 65911.7 -1246.7  
1779 9.5 65912.5 -1249.8  
1780 9.2 65919.9 -1234.2  
1781 8.5 65924.1 -1243.8  
1782 9.3 65932.6 -1207.4  
1783 9.4 65940.0 -1236.2  
1784 10. 65945.9 -1219.0  
  
1785 9.5 65946.0 -1238.4  
1786 9.7 65949.8 -1231.2  
1787 9.6 65950.9 -1228.8  
1788 6.9 65952.7 -1210.6  
1789 9.4 65953.6 -1240.6  
1790 8.3 70015.5 -1200.8  
1791 10. 70021.9 -1255.8  
1792 8.3 70025.7 -1208.4  
1793 10. 70028.4 -1231.7  
1794 8.6 70032.8 -1251.8  
  
1795 9.5 70042.2 -1244.8  
1796 9.5 70054.7 -1211.7  
1797 9.8 70057.0 -1202.8  
1798 9.2 70100.4 -1204.0  
1799 10. 70111.0 -1219.6  
1800 10. 70114.4 -1227.5  
1801 9.8 70119.1 -1245.5  
1802 9.6 70119.5 -1202.1  
1803 10. 70120.3 -1220.5  
1804 9.1 70122.0 -1228.9  
  
1805 9.7 70140.1 -1256.4  
1806 8.7 70143.3 -1218.5  
1807 9.8 70145.8 -1220.2  
1808 8.5 70148.4 -1252.4  
1809 7.5 70149.9 -1239.4  
1810 9.4 70156.5 -1233.3  
1811 9.8 70156.6 -1228.4  
1812 9.0 70203.3 -1223.5  
1813 8.9 70211.8 -1205.6  
1814 9.8 70240.1 -1219.0  
  
1815 9.0 70247.4 -1257.1  
1816 9.0 70303.7 -1251.0  
1817 9.8 70306.5 -1237.7  
1818 9.5 70322.5 -1213.2  
1819 9.3 70325.4 -1202.0  
1820 9.4 70325.9 -1219.7  
1821 9.8 70333.3 -1228.1  
1822 10. 70337.2 -1207.7  
1823 8.9 70410.6 -1225.1  
1824 8.6 70414.9 -1258.3  
  
1825 9.0 70423.1 -1217.4  
1826 10. 70426.5 -1237.5  
1827 9.1 70427.6 -1217.4  
1828 9.9 70439.5 -1210.4  
1829 8.9 70441.4 -1237.4  
1830 9.8 70443.5 -1210.4  
1831 9.2 70445.4 -1243.2  
1832 7.8 70445.5 -1250.0  
1833 9.5 70509.7 -1226.1  
1834 9.6 70514.7 -1228.6  
  
1835 9.8 70520.6 -1246.5  
1836 10. 70521.7 -1250.5  
1837 10. 70525.2 -1257.9  
1838 9.2 70534.4 -1242.7  
1839 9.8 70543.8 -1232.9  
1840 9.4 70553.1 -1246.7  
1841 9.8 70553.6 -1218.0  
1842 8.5 70611.7 -1208.1  
1843 9.0 70613.6 -1221.8  
1844 9.0 70615.3 -1241.9  
  
1845 9.0 70615.7 -1238.3  
1846 10. 70615.7 -1226.4  
1847 9.0 70623.3 -1253.0  
1848 9.5 70627.0 -1214.4  
1849 9.3 70637.5 -1200.3  
1850 9.5 70648.2 -1220.9  
1851 9.4 70652.1 -1256.1  
1852 9.8 70659.1 -1238.6  
1853 9.8 70700.8 -1255.4  
1854 9.6 70711.7 -1232.4

-12 1854 7h07m



-12 1855 7h07m

1855 10. 70713.9 -1234.1  
1856 9.5 70714.2 -1222.9  
1857 9.8 70722.1 -1221.0  
1858 10. 70723.0 -1241.6  
1859 10. 70723.7 -1258.1  
1860 7.9 70727.2 -1234.1  
1861 9.0 70733.1 -1216.7  
1862 9.5 70735.8 -1230.3  
1863 10. 70755.0 -1238.1  
1864 9.8 70825.3 -1255.4  
  
1865 10. 70831.9 -1236.9  
1866 9.8 70851.0 -1238.0  
1867 10. 70855.5 -1207.7  
1868 10. 70859.4 -1256.6  
1869 9.3 70902.1 -1258.4  
1870 10. 70909.6 -1247.4  
1871 7.3 70911.7 -1248.4  
1872 8.1 70912.7 -1217.3  
1873 10. 70926.5 -1254.7  
1874 9.4 70939.2 -1228.4  
  
1875 9.9 70939.3 -1224.3  
1876 9.8 70941.6 -1233.2  
1877 9.2 71000.8 -1236.2  
1878 9.7 71004.9 -1240.8  
1879 9.6 71007.2 -1235.5  
1880 9.3 71010.2 -1228.4  
1881 9.3 71013.4 -1233.3  
1882 9.0 71017.1 -1221.2  
1883 8.5 71023.5 -1235.7  
1884 9.3 71024.5 -1237.5  
  
1885 10. 71035.9 -1241.8  
1886 9.2 71042.4 -1232.3  
1887 10. 71123.2 -1249.1  
1888 10. 71123.7 -1236.0  
1889 9.3 71124.7 -1232.0  
1890 9.9 71147.1 -1244.1  
1891 9.8 71155.9 -1213.8  
1892 9.9 71200.8 -1226.5  
1893 9.9 71201.0 -1230.2  
1894 9.0 71222.4 -1259.9  
  
1895 9.4 71227.4 -1259.3  
1896 9.5 71230.4 -1208.4  
1897 10. 71238.2 -1212.6  
1898 8.8 71238.2 -1214.7  
1899 9.8 71242.6 -1210.3  
1900 9.7 71306.0 -1216.6  
1901 9.7 71309.1 -1231.4  
1902 9.5 71309.4 -1207.8  
1903 9.5 71309.7 -1224.2  
1904 8.7 71327.5 -1201.2  
  
1905 9.4 71327.8 -1234.1  
1906 9.5 71402.4 -1256.6  
1907 9.5 71405.8 -1232.0  
1908 9.8 71421.5 -1221.7  
1909 8.8 71422.4 -1201.0  
1910 9.8 71427.2 -1251.1  
1911 8.8 71429.5 -1240.0  
1912 10. 71430.9 -1234.8  
1913 9.2 71436.8 -1257.6  
1914 9.3 71437.5 -1223.1  
  
1915 9.0 71449.0 -1244.2  
1916 9.6 71450.1 -1246.7  
1917 10. 71453.7 -1249.8  
1918 10. 71455.9 -1221.0  
1919 10. 71506.8 -1258.7  
1920 9.1 71522.3 -1221.4  
1921 10. 71529.5 -1228.1  
1922 9.5 71538.4 -1211.8  
1923 9.5 71544.2 -1201.5  
1924 9.1 71600.5 -1238.5  
  
1925 9.2 71605.4 -1230.6  
1926 9.4 71612.5 -1216.6  
1927 8.7 71613.6 -1215.0  
1928 9.4 71619.5 -1221.0  
1929 9.2 71622.0 -1218.8  
1930 9.3 71622.0 -1218.0  
1931 10. 71626.8 -1229.7  
1932 9.3 71640.0 -1211.5  
1933 8.9 71641.0 -1223.5  
1934 9.1 71644.0 -1219.0  
  
1935 9.8 71645.4 -1238.4  
1936 9.4 71653.3 -1252.4  
1937 9.1 71703.9 -1212.5  
1938 8.8 71707.3 -1242.6  
1939 9.2 71708.2 -1201.6  
1940 9.5 71713.0 -1251.6  
1941 9.4 71716.6 -1207.6  
1942 9.0 71717.3 -1229.0  
1943 9.8 71727.9 -1257.0  
1944 9.3 71731.0 -1203.3

1945 9.6 71737.1 -1252.0  
1946 9.4 71737.2 -1256.5  
1947 9.8 71740.0 -1259.9  
1948 9.6 71741.5 -1254.4  
1949 9.4 71747.4 -1254.1  
1950 9.8 71751.8 -1202.9  
1951 9.7 71807.2 -1204.9  
1952 9.6 71808.7 -1247.6  
1953 9.5 71812.3 -1252.5  
1954 8.5 71812.8 -1203.2  
  
1955 9.5 71815.6 -1220.0  
1956 9.8 71824.8 -1228.3  
1957 9.1 71831.0 -1229.5  
1958 9.8 71843.5 -1244.9  
1959 8.7 71856.5 -1217.4  
1960 9.1 71903.6 -1246.1  
1961 9.1 71910.9 -1256.1  
1962 9.0 71912.4 -1209.0  
1963 9.0 71917.3 -1203.6  
1964 9.8 71932.2 -1215.6  
  
1965 9.0 71932.7 -1250.8  
1966 10. 71936.6 -1249.0  
1967 10. 71938.3 -1251.2  
1968 9.3 71939.2 -1241.2  
1969 7.2 71952.9 -1254.0  
1970 9.8 71957.6 -1255.5  
1971 8.5 71957.8 -1210.4  
1972 9.8 71958.4 -1246.5  
1973 9.1 72011.0 -1218.7  
1974 9.0 72020.9 -1232.6  
  
1975 9.8 72021.8 -1205.3  
1976 9.2 72022.6 -1212.6  
1977 9.8 72034.5 -1218.0  
1978 8.5 72037.7 -1203.9  
1979 8.5 72047.3 -1207.5  
1980 10. 72058.8 -1258.2  
1981 9.4 72104.3 -1223.9  
1982 10. 72104.4 -1228.9  
1983 10. 72117.2 -1245.8  
1984 9.4 72125.7 -1225.4  
  
1985 9.0 72127.3 -1250.0  
1986 9.8 72131.4 -1228.2  
1987 9.8 72140.3 -1254.3  
1988 8.0 72142.9 -1239.8  
1989 8.9 72216.8 -1203.4  
1990 9.0 72228.3 -1231.9  
1991 7.5 72235.8 -1250.2  
1992 9.2 72241.0 -1224.1  
1993 8.9 72253.1 -1213.1  
1994 8.7 72309.9 -1203.5  
  
1995 10. 72321.1 -1213.0  
1996 9.9 72343.6 -1241.7  
1997 9.2 72357.4 -1227.8  
1998 8.0 72407.8 -1252.0  
1999 9.2 72416.6 -1230.0  
2000 10. 72423.5 -1208.9  
2001 9.1 72424.4 -1256.0  
2002 9.1 72427.4 -1228.9  
2003 10. 72431.2 -1247.8  
2004 9.3 72431.9 -1220.0  
  
2005 9.2 72432.7 -1225.1  
2006 9.3 72434.8 -1213.2  
2007 9.5 72440.3 -1235.5  
2008 10. 72443.3 -1244.4  
2009 8.5 72448.5 -1228.2  
2010 9.6 72457.7 -1241.6  
2011 9.5 72510.7 -1229.1  
2012 9.5 72512.3 -1226.5  
2013 10. 72525.1 -1235.4  
2014 8.8 72526.7 -1245.4  
  
2015 9.8 72532.3 -1211.5  
2016 9.0 72548.2 -1234.5  
2017 9.0 72549.0 -1234.5  
2018 8.9 72555.1 -1234.2  
2019 9.3 72610.4 -1230.8  
2020 9.0 72616.2 -1246.0  
2021 9.3 72619.7 -1244.0  
2022 9.9 72622.4 -1228.9  
2023 9.4 72623.9 -1241.2  
2024 10. 72626.8 -1253.4  
  
2025 8.8 72634.9 -1248.5  
2026 9.4 72635.5 -1243.1  
2027 9.6 72637.1 -1242.1  
2028 9.8 72645.3 -1244.7  
2029 10. 72650.5 -1214.2  
2030 9.8 72651.5 -1208.8  
2031 9.0 72703.8 -1253.2  
2032 8.3 72723.9 -1243.6  
2033 9.8 72729.7 -1229.2  
2034 9.1 72733.9 -1215.8

2035 8.7 72740.9 -1203.2  
2036 8.3 72746.5 -1231.9  
2037 9.3 72746.8 -1251.0  
2038 9.5 72756.1 -1243.9  
2039 10. 72813.0 -1227.2  
2040 9.4 72828.4 -1205.0  
2041 9.4 72829.2 -1249.3  
2042 9.4 72832.3 -1250.1  
2043 10. 72833.5 -1238.0  
2044 9.0 72857.0 -1227.5  
  
2045 9.0 72919.2 -1207.2  
2046 10. 72926.3 -1211.7  
2047 10. 72939.0 -1241.5  
2048 10. 72950.1 -1226.1  
2049 9.0 72956.7 -1210.1  
2050 9.0 72956.8 -1244.3  
2051 9.8 72958.9 -1206.8  
2052 8.4 73000.2 -1231.6  
2053 9.6 73004.1 -1233.0  
2054 9.1 73012.6 -1244.0  
  
2055 9.0 73015.8 -1254.5  
2056 10. 73028.3 -1212.3  
2057 9.2 73040.2 -1250.3  
2058 8.9 73047.9 -1259.0  
2059 10. 73050.4 -1231.4  
2060 9.0 73052.0 -1237.5  
2061 9.8 73054.8 -1215.6  
2062 9.1 73056.9 -1226.1  
2063 9.5 73101.1 -1202.2  
2064 10. 73110.3 -1224.5  
  
2065 9.1 73119.7 -1206.2  
2066 9.0 73122.9 -1259.0  
2067 9.5 73136.2 -1246.1  
2068 10. 73140.2 -1220.7  
2069 10. 73146.3 -1237.6  
2070 9.8 73155.1 -1219.3  
2071 9.7 73203.8 -1218.2  
2072 10. 73205.2 -1244.1  
2073 9.8 73207.3 -1234.9  
2074 9.8 73212.9 -1225.8  
  
2075 9.4 73214.0 -1253.4  
2076 9.3 73249.7 -1206.8  
2077 9.8 73255.1 -1243.5  
2078 9.8 73255.4 -1238.1  
2079 8.3 73259.8 -1211.1  
2080 9.8 73209.5 -1231.4  
2081 10. 73310.2 -1249.9  
2082 9.8 73316.8 -1245.4  
2083 9.0 73328.4 -1236.7  
2084 9.1 73347.5 -1241.5  
  
2085 9.0 73350.0 -1201.8  
2086 9.4 73350.1 -1247.8  
2087 8.5 73352.8 -1258.7  
2088 9.9 73353.3 -1205.6  
2089 9.4 73424.2 -1212.0  
2090 9.7 73429.7 -1251.0  
2091 9.1 73440.4 -1219.9  
2092 9.2 73509.5 -1251.6  
2093 10. 73514.7 -1228.5  
2094 9.5 73517.3 -1243.5  
  
2095 9.0 73522.8 -1232.4  
2096 8.7 73524.3 -1256.1  
2097 9.3 73535.8 -1215.5  
2098 8.3 73552.9 -1238.5  
2099 9.7 73554.2 -1213.6  
2100 8.5 73605.4 -1219.9  
2101 9.0 73612.1 -1234.3  
2102 9.1 73612.7 -1213.0  
2103 9.8 73616.8 -1254.6  
2104 8.9 73627.5 -1203.4  
  
2105 9.5 73630.6 -1241.6  
2106 9.5 73630.7 -1237.4  
2107 9.8 73634.5 -1244.8  
2108 9.5 73635.3 -1259.5  
2109 9.6 73650.5 -1241.3  
2110 9.8 73653.8 -1216.5  
2111 8.5 73654.9 -1225.4  
2112 10. 73656.9 -1223.8  
2113 10. 73659.9 -1221.3  
2114 9.5 73714.3 -1257.2  
  
2115 10. 73714.8 -1222.7  
2116 10. 73721.9 -1235.2  
2117 9.4 73724.1 -1243.2  
2118 9.2 73732.1 -1230.6  
2119 10. 73732.3 -1243.5  
2120 9.3 73736.5 -1225.6  
2121 9.0 73808.6 -1248.0  
2122 9.6 73821.4 -1236.2  
2123 9.1 73828.7 -1212.3  
2124 9.8 73829.8 -1216.5

2125 9.0 73834.5 -1205.4  
2126 9.8 73843.4 -1230.0  
2127 9.5 73850.6 -1204.7  
2128 10. 73858.9 -1220.5  
2129 10. 73917.0 -1236.7  
2130 8.0 73930.1 -1203.7  
2131 9.3 73932.5 -1225.6  
2132 10. 73939.4 -1208.9  
2133 9.7 73941.2 -1250.7  
2134 9.7 73950.3 -1259.7  
  
2135 6.8 73957.4 -1219.4  
2136 8.5 74009.3 -1259.8  
2137 9.7 74018.8 -1216.4  
2138 9.5 74019.6 -1249.3  
2139 9.3 74019.9 -1257.8  
2140 9.3 74020.8 -1202.5  
2141 9.8 74038.8 -1218.3  
2142 10. 74046.6 -1248.1  
2143 9.5 74048.0 -1200.0  
2144 9.5 74057.5 -1204.3  
  
2145 8.7 74057.8 -1239.7  
2146 9.1 74109.9 -1240.4  
2147 9.1 74112.1 -1223.0  
2148 9.6 74123.3 -1215.3  
2149 9.2 74125.7 -1250.6  
2150 9.3 74127.7 -1254.6  
2151 9.2 74140.8 -1203.7  
2152 9.8 74146.2 -1237.9  
2153 9.0 74147.2 -1251.8  
2154 9.6 74201.8 -1256.6  
  
2155 9.5 74203.1 -1249.9  
2156 10. 74204.5 -1244.6  
2157 9.5 74205.6 -1232.7  
2158 9.5 74216.6 -1206.3  
2159 10. 74224.4 -1225.6  
2160 9.5 74229.6 -1207.4  
2161 9.0 74233.6 -1253.9  
2162 9.5 74234.8 -1218.1  
2163 10. 74238.9 -1239.4  
2164 6.8 74244.3 -1258.8  
  
2165 9.8 74258.2 -1229.6  
2166 9.4 74259.5 -1205.6  
2167 10. 74308.7 -1252.1  
2168 9.5 74310.0 -1203.8  
2169 10. 74318.2 -1228.7  
2170 9.3 74328.1 -1253.7  
2171 10. 74328.4 -1244.3  
2172 9.8 74343.3 -1224.9  
2173 9.8 74346.5 -1257.2  
2174 8.5 74401.5 -1248.7  
  
2175 9.8 74419.1 -1251.7  
2176 8.1 74426.2 -1214.6  
2177 9.9 74435.0 -1223.1  
2178 9.6 74435.4 -1228.8  
2179 7.0 74454.5 -1227.0  
2180 10. 74456.0 -1238.8  
2181 9.3 74503.0 -1202.6  
2182 9.0 74503.1 -1236.0  
2183 9.0 74504.8 -1219.6  
2184 9.5 74507.4 -1243.7  
  
2185 9.6 74520.4 -1210.7  
2186 10. 74542.6 -1231.5  
2187 10. 74550.3 -1215.0  
2188 9.4 74556.9 -1216.6  
2189 8.8 74559.8 -1237.9  
2190 9.2 74601.0 -1244.3  
2191 10. 74618.2 -1232.8  
2192 9.2 74621.4 -1225.5  
2193 10. 74625.5 -1246.8  
2194 9.7 74653.5 -1233.6  
  
2195 10. 74654.6 -1208.9  
2196 10. 74707.0 -1235.1  
2197 9.6 74707.8 -1217.2  
2198 10. 74714.4 -1255.5  
2199 9.3 74719.8 -1243.4  
2200 9.8 74722.0 -1259.0  
2201 8.8 74722.2 -1243.1  
2202 9.1 74728.8 -1253.8  
2203 9.6 74733.1 -1212.7  
2204 8.4 74748.9 -1227.1  
  
2205 10. 74750.2 -1215.0  
2206 8.6 74753.2 -1217.9  
2207 8.8 74808.8 -1233.4  
2208 8.1 74812.0 -1254.0  
2209 10. 74820.9 -1249.0  
2210 10. 74822.1 -1241.7  
2211 10. 74823.4 -1236.3  
2212 9.8 74830.4 -1237.7  
2213 9.3 74840.5 -1242.3  
2214 9.2 74844.8 -1259.2

-12 2214 7h48m



-12 2215 7h48m

2215 9.3 74847.8 -1214.2  
2216 10. 74901.4 -1223.1  
2217 6.8 74911.8 -1213.6  
2218 9.8 74912.0 -1246.5  
2219 10. 74913.9 -1222.1  
2220 9.4 74914.8 -1240.9  
2221 10. 74929.5 -1202.7  
2222 10. 74930.6 -1229.8  
2223 9.7 74935.3 -1259.1  
2224 10. 74937.1 -1252.6  
  
2225 9.7 74937.8 -1244.3  
2226 9.7 74943.3 -1224.1  
2227 10. 74954.7 -1213.1  
2228 10. 74956.4 -1221.2  
2229 7.5 74958.4 -1232.9  
2230 9.9 75011.7 -1202.7  
2231 8.6 75014.6 -1202.8  
2232 9.7 75018.6 -1235.7  
2233 9.3 75025.5 -1247.9  
2234 9.3 75026.7 -1253.3  
  
2235 10. 75031.0 -1259.1  
2236 9.9 75038.1 -1229.0  
2237 9.8 75041.3 -1234.4  
2238 9.7 75050.3 -1225.4  
2239 9.3 75052.0 -1253.9  
2240 9.5 75052.5 -1254.8  
2241 9.8 75057.7 -1207.1  
2242 9.8 75058.4 -1222.9  
2243 9.1 75110.0 -1258.6  
2244 9.8 75118.7 -1211.3  
  
2245 9.6 75131.7 -1255.2  
2246 9.4 75135.0 -1252.3  
2247 8.3 75143.3 -1234.8  
2248 10. 75146.3 -1244.6  
2249 9.4 75149.2 -1233.0  
2250 9.8 75158.7 -1213.5  
2251 9.5 75205.4 -1211.0  
2252 8.7 75208.4 -1255.4  
2253 9.3 75210.3 -1247.0  
2254 9.4 75212.2 -1230.1  
  
2255 9.7 75221.1 -1239.4  
2256 9.6 75222.0 -1259.9  
2257 9.6 75228.7 -1216.5  
2258 10. 75238.8 -1209.3  
2259 8.7 75239.0 -1256.2  
2260 8.5 75242.1 -1207.0  
2261 9.5 75250.4 -1253.5  
2262 10. 75253.2 -1215.3  
2263 7.6 75258.3 -1228.2  
2264 8.7 75311.7 -1258.0  
  
2265 9.8 75314.5 -1246.2  
2266 9.3 75334.2 -1239.9  
2267 9.1 75334.9 -1251.4  
2268 9.3 75336.5 -1208.5  
2269 8.5 75339.6 -1206.5  
2270 9.5 75353.7 -1239.6  
2271 10. 75355.1 -1237.8  
2272 9.0 75356.4 -1240.1  
2273 8.9 75359.7 -1240.6  
2274 9.0 75401.6 -1238.9  
  
2275 30.0 75401.7 -1226.6  
2276 9.2 75406.7 -1259.6  
2277 9.8 75411.3 -1216.0  
2278 9.7 75427.7 -1222.8  
2279 8.7 75436.4 -1249.5  
2280 8.3 75437.4 -1223.4  
2281 10. 75440.3 -1215.3  
2282 9.3 75446.3 -1223.9  
2283 8.8 75453.6 -1219.9  
2284 9.5 75455.7 -1219.0  
  
2285 9.9 75502.1 -1242.2  
2286 9.1 75508.8 -1208.9  
2287 10. 75509.1 -1210.9  
2288 8.3 75518.7 -1223.9  
2289 10. 75522.0 -1237.3  
2290 9.9 75530.9 -1230.2  
2291 9.0 75531.8 -1224.4  
2292 9.9 75534.5 -1219.2  
2293 9.1 75539.1 -1247.8  
2294 9.7 75550.7 -1241.6  
  
2295 9.9 75553.8 -1208.1  
2296 9.8 75606.4 -1242.4  
2297 10. 75619.4 -1200.0  
2298 9.4 75620.2 -1253.9  
2299 10. 75630.3 -1223.5  
2300 9.0 75633.0 -1229.2  
2301 9.1 75633.3 -1236.3  
2302 8.5 75637.1 -1248.0  
2303 9.8 75654.9 -1215.3  
2304 10. 75657.4 -1226.1

2305 10. 75659.0 -1237.8  
2306 9.8 75702.2 -1250.5  
2307 10. 75705.9 -1201.0  
2308 9.4 75708.3 -1221.8  
2309 9.8 75708.7 -1219.5  
2310 9.6 75709.7 -1216.1  
2311 9.3 75711.6 -1234.7  
2312 9.1 75717.3 -1234.3  
2313 8.9 75730.0 -1232.3  
2314 10. 75739.3 -1249.7  
  
2315 7.7 75742.0 -1243.5  
2316 9.6 75743.7 -1249.5  
2317 9.2 75757.1 -1246.8  
2318 9.5 75800.4 -1246.2  
2319 9.5 75809.7 -1225.1  
2320 10. 75826.0 -1240.1  
2321 9.6 75829.6 -1220.3  
2322 9.5 75830.7 -1205.8  
2323 10. 75833.1 -1236.7  
2324 9.7 75840.7 -1217.0  
  
2325 9.8 75843.0 -1204.4  
2326 9.8 75843.9 -1217.6  
2327 10. 75859.1 -1212.8  
2328 8.5 75904.6 -1237.2  
2329 8.9 75909.3 -1231.7  
2330 8.8 75918.5 -1215.4  
2331 10. 75921.6 -1226.3  
2332 9.6 75925.6 -1238.4  
2333 9.3 75929.9 -1236.9  
2334 8.8 75931.3 -1252.1  
  
2335 9.8 75935.5 -1208.2  
2336 9.2 75936.5 -1248.4  
2337 9.3 75939.8 -1224.2  
2338 8.3 75939.8 -1242.1  
2339 9.4 75947.6 -1241.2  
2340 9.4 80000.1 -1213.6  
2341 9.8 80025.5 -1235.6  
2342 10. 80032.4 -1228.9  
2343 9.8 80034.3 -1210.9  
2344 8.9 80045.9 -1254.6  
  
2345 9.5 80050.5 -1223.0  
2346 8.9 80058.0 -1232.1  
2347 9.8 80113.8 -1224.0  
2348 10. 80115.2 -1245.1  
2349 10. 80117.1 -1246.2  
2350 9.3 80119.9 -1230.4  
2351 9.8 80126.9 -1204.9  
2352 8.9 80144.1 -1237.7  
2353 9.7 80148.6 -1202.3  
2354 9.8 80154.1 -1214.7  
  
2355 8.6 80159.2 -1219.8  
2356 9.4 80220.4 -1206.7  
2357 9.5 80221.5 -1257.9  
2358 9.7 80225.9 -1243.2  
2359 10. 80242.3 -1250.6  
2360 8.7 80252.6 -1228.5  
2361 9.7 80301.2 -1228.5  
2362 9.7 80302.3 -1231.8  
2363 9.8 80306.5 -1200.2  
2364 9.2 80309.4 -1219.4  
  
2365 10. 80311.5 -1251.4  
2366 9.5 80315.8 -1233.0  
2367 9.8 80317.5 -1223.8  
2368 9.3 80321.0 -1246.4  
2369 9.3 80324.2 -1246.4  
2370 9.0 80325.1 -1244.3  
2371 10. 80328.8 -1225.3  
2372 9.5 80334.4 -1205.0  
2373 10. 80347.9 -1224.2  
2374 9.8 80349.1 -1227.4  
  
2375 9.0 80354.2 -1201.4  
2376 9.8 80355.0 -1215.0  
2377 9.7 80359.4 -1247.7  
2378 9.5 80401.7 -1225.0  
2379 9.2 80401.8 -1220.2  
2380 9.5 80402.5 -1227.8  
2381 9.7 80412.9 -1224.8  
2382 9.2 80421.2 -1237.6  
2383 9.0 80424.0 -1230.1  
2384 9.4 80427.8 -1247.8  
  
2385 5.0 80428.1 -1229.9  
2386 9.5 80441.8 -1254.8  
2387 8.9 80450.7 -1212.5  
2388 9.5 80450.9 -1235.7  
2389 9.8 80453.3 -1250.5  
2390 8.8 80459.1 -1214.9  
2391 9.8 80509.4 -1252.8  
2392 9.1 80512.8 -1227.3  
2393 9.5 80524.1 -1241.4  
2394 9.4 80524.5 -1229.9

2395 9.1 80531.9 -1226.1  
2396 9.6 80536.5 -1240.5  
2397 9.8 80536.5 -1257.9  
2398 9.4 80552.0 -1234.2  
2399 9.5 80607.0 -1209.9  
2400 9.3 80610.9 -1209.6  
2401 9.5 80612.0 -1227.5  
2402 9.5 80614.2 -1238.8  
2403 7.7 80618.6 -1216.8  
2404 9.3 80621.9 -1201.4  
  
2405 9.1 80629.9 -1242.1  
2406 9.7 80631.1 -1242.8  
2407 9.1 80632.1 -1243.4  
2408 9.4 80637.1 -1234.9  
2409 10. 80643.4 -1237.6  
2410 9.8 80644.2 -1253.2  
2411 10. 80707.8 -1228.5  
2412 10. 80708.9 -1242.3  
2413 10. 80721.7 -1224.0  
2414 9.6 80733.0 -1230.9  
  
2415 10. 80801.3 -1220.3  
2416 8.8 80810.1 -1259.6  
2417 9.8 80827.9 -1242.8  
2418 9.7 80835.2 -1251.4  
2419 9.8 80849.1 -1232.8  
2420 9.4 80849.5 -1200.7  
2421 9.8 80855.7 -1250.0  
2422 9.9 80856.5 -1230.5  
2423 9.5 80857.8 -1200.7  
2424 9.4 80901.8 -1243.8  
  
2425 9.7 80903.6 -1240.0  
2426 9.5 80904.3 -1212.8  
2427 10. 80913.5 -1219.6  
2428 9.2 80913.8 -1218.3  
2429 9.8 80913.9 -1223.3  
2430 9.0 80917.3 -1232.0  
2431 9.2 80914.4 -1211.0  
2432 9.4 80916.6 -1226.0  
2433 9.3 80915.8 -1227.6  
2434 10. 81012.7 -1251.9  
  
2435 8.3 81002.9 -1208.6  
2436 9.0 81007.6 -1207.6  
2437 9.5 81013.4 -1212.0  
2438 8.3 81020.9 -1226.5  
2439 9.8 81027.7 -1254.4  
2440 9.7 81027.4 -1211.5  
2441 9.0 81031.1 -1232.3  
2442 10. 81032.0 -1250.4  
2443 10. 81041.8 -1232.0  
2444 9.6 81042.6 -1214.4  
  
2445 9.8 81058.9 -1236.0  
2446 9.8 81100.1 -1217.9  
2447 9.8 81127.9 -1221.4  
2448 10. 81130.5 -1252.7  
2449 6.3 81131.6 -1208.7  
2450 9.5 81141.2 -1259.5  
2451 9.3 81142.0 -1247.2  
2452 9.6 81142.4 -1239.9  
2453 9.6 81149.6 -1209.3  
2454 10. 81150.5 -1224.1  
  
2455 10. 81153.2 -1217.3  
2456 9.3 81201.4 -1239.0  
2457 8.8 81202.4 -1231.7  
2458 9.6 81204.5 -1241.8  
2459 9.4 81215.7 -1243.9  
2460 9.4 81225.0 -1252.8  
2461 9.1 81243.4 -1258.5  
2462 8.8 81254.1 -1222.5  
2463 7.0 81305.4 -1224.2  
2464 9.3 81308.9 -1205.6  
  
2465 9.4 81316.6 -1254.1  
2466 9.5 81322.0 -1236.1  
2467 10. 81340.3 -1204.0  
2468 9.6 81342.8 -1223.2  
2469 9.6 81400.0 -1258.2  
2470 9.2 81414.4 -1208.2  
2471 10. 81420.1 -1249.1  
2472 9.6 81470.8 -1274.4  
2473 10. 81423.5 -1231.7  
2474 9.5 81433.7 -1220.3  
  
2475 9.3 81434.9 -1234.8  
2476 10. 81439.9 -1256.1  
2477 9.4 81442.0 -1254.3  
2478 9.8 81444.6 -1221.9  
2479 9.8 81452.1 -1224.0  
2480 10. 81506.3 -1224.9  
2481 9.3 81510.0 -1255.2  
2482 9.3 81512.7 -1219.2  
2483 9.3 81528.5 -1206.3  
2484 9.3 81530.9 -1226.1

-12 2574 8h26m

2485 10. 81539.6 -1249.6  
2486 9.5 81540.5 -1220.5  
2487 8.6 81547.1 -1211.7  
2488 10. 81549.7 -1202.8  
2489 9.6 81558.6 -1251.8  
2490 6.6 81559.1 -1235.3  
2491 9.7 81613.2 -1227.0  
2492 10. 81619.8 -1232.0  
2493 9.8 81623.9 -1233.5  
2494 9.8 81628.3 -1259.1  
  
2495 9.5 81631.5 -1237.6  
2496 9.8 81639.2 -1220.2  
2497 8.5 81639.6 -1202.1  
2498 9.0 81648.1 -1246.5  
2499 9.2 81704.1 -1245.6  
2500 8.8 81707.2 -1214.2  
2501 8.7 81721.7 -1219.6  
2502 9.4 81729.3 -1201.4  
2503 9.4 81729.4 -1243.4  
2504 9.4 81742.7 -1211.8  
  
2505 9.8 81750.6 -1209.6  
2506 9.5 81753.4 -1219.6  
2507 9.4 81755.6 -1254.8  
2508 9.8 81800.3 -1209.5  
2509 9.4 81805.4 -1200.3  
2510 7.0 81810.7 -1217.3  
2511 9.7 81821.4 -1237.8  
2512 9.8 81833.1 -1238.0  
2513 9.4 81836.2 -1208.2  
2514 9.7 81837.5 -1256.0  
  
2515 9.8 81842.6 -1226.8  
2516 9.7 81913.4 -1229.1  
2517 9.8 81923.6 -1254.1  
2518 9.5 81926.6 -1238.2  
2519 9.3 81935.6 -1217.0  
2520 9.8 81943.7 -1251.3  
2521 10. 81944.3 -1248.4  
2522 9.1 81948.4 -1225.9  
2523 9.3 81949.8 -1210.6  
2524 6.0 81952.0 -1203.5  
  
2525 10. 81955.4 -1227.6  
2526 10. 81956.0 -1217.9  
2527 9.3 81956.6 -1252.7  
2528 9.8 81957.3 -1237.0  
2529 10. 82001.7 -1216.8  
2530 8.3 82001.7 -1224.0  
2531 9.2 82007.9 -1216.8  
2532 10. 82015.9 -1208.5  
2533 9.5 82029.8 -1206.4  
2534 9.2 82032.5 -1240.3  
  
2535 10. 82046.8 -1216.1  
2536 10. 82047.0 -1252.1  
2537 8.8 82055.2 -1217.5  
2538 9.6 82100.8 -1253.6  
2539 8.8 82101.6 -1244.7  
2540 9.8 82111.9 -1258.3  
2541 9.1 82115.8 -1235.0  
2542 9.5 82115.8 -1216.1  
2543 8.5 82121.9 -1245.6  
2544 9.8 82122.9 -1241.4  
  
2545 9.1 82123.7 -1209.3  
2546 8.5 82130.2 -1211.3  
2547 8.8 82135.0 -1215.0  
2548 9.4 82207.5 -1242.9  
2549 9.0 82225.1 -1258.0  
2550 9.4 82227.6 -1233.3  
2551 8.3 82234.3 -1224.6  
2552 8.1 82236.1 -1221.6  
2553 9.5 82256.2 -1235.2  
2554 9.1 82309.5 -1217.3  
  
2555 9.3 82317.0 -1252.0  
2556 9.3 82329.8 -1233.3  
2557 7.2 82336.5 -1258.8  
2558 8.2 82337.9 -1208.6  
2559 9.1 82344.5 -1252.0  
2560 9.1 82358.8 -1227.3  
2561 9.5 82402.7 -1256.6  
2562 8.9 82403.7 -1209.8  
2563 10. 82410.4 -1242.9  
2564 10. 82416.9 -1222.6  
  
2565 9.4 82458.2 -1202.4  
2566 9.1 82458.6 -1256.4  
2567 9.5 82506.4 -1201.6  
2568 9.2 82536.0 -1224.2  
2569 9.3 82538.8 -1224.4  
2570 9.6 82538.8 -1201.0  
2571 10. 82550.5 -1224.4  
2572 9.3 82553.0 -1222.4  
2573 9.0 82613.1 -1228.0  
2574 9.5 82624.9 -1232.0



-12 2575 8h26m

-12 2934 9h27m

|      |      |         |         |      |      |         |         |      |      |         |         |      |      |         |         |
|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|------|------|---------|---------|
| 2575 | 8.5  | 82628.6 | -1258.1 | 2665 | 9.1  | 83900.2 | -1242.0 | 2755 | 9.5  | 85232.8 | -1223.7 | 2845 | 9.2  | 90946.1 | -1241.7 |
| 2576 | 9.4  | 82629.0 | -1221.7 | 2666 | 9.1  | 83916.4 | -1256.5 | 2756 | 9.6  | 85244.3 | -1250.8 | 2846 | 9.8  | 90946.6 | -1251.9 |
| 2577 | 7.8  | 82630.2 | -1214.8 | 2667 | 9.5  | 83934.6 | -1209.3 | 2757 | 9.1  | 85253.4 | -1240.3 | 2847 | 9.1  | 90951.9 | -1226.9 |
| 2578 | 9.4  | 82638.6 | -1226.8 | 2668 | 9.0  | 83938.3 | -1203.1 | 2758 | 9.8  | 85254.7 | -1217.4 | 2848 | 9.1  | 91013.5 | -1251.8 |
| 2579 | 9.5  | 82640.6 | -1259.8 | 2669 | 9.2  | 83951.2 | -1249.6 | 2759 | 8.8  | 85255.2 | -1250.7 | 2849 | 9.2  | 91015.7 | -1209.4 |
| 2580 | 9.0  | 82650.5 | -1251.0 | 2670 | 9.1  | 84018.0 | -1240.3 | 2760 | 8.2  | 85246.0 | -1236.0 | 2850 | 9.1  | 91049.0 | -1247.3 |
| 2581 | 9.2  | 82653.0 | -1224.6 | 2671 | 8.3  | 84018.9 | -1232.2 | 2761 | 9.6  | 85252.3 | -1228.8 | 2851 | 9.3  | 91051.2 | -1238.2 |
| 2582 | 9.6  | 82706.2 | -1234.0 | 2672 | 8.7  | 84031.0 | -1256.9 | 2762 | 8.5  | 85253.9 | -1215.2 | 2852 | 8.8  | 91056.8 | -1246.7 |
| 2583 | 8.5  | 82727.4 | -1245.6 | 2673 | 9.5  | 84033.3 | -1207.1 | 2763 | 9.8  | 85257.4 | -1246.3 | 2853 | 9.5  | 91100.7 | -1215.2 |
| 2584 | 9.3  | 82729.4 | -1224.5 | 2674 | 9.0  | 84035.8 | -1241.0 | 2764 | 9.5  | 85257.2 | -1247.8 | 2854 | 9.1  | 91107.9 | -1256.2 |
| 2585 | 9.7  | 82744.5 | -1251.0 | 2675 | 8.0  | 84044.4 | -1259.5 | 2765 | 10.1 | 85248.4 | -1228.0 | 2855 | 9.4  | 91112.8 | -1213.5 |
| 2586 | 9.0  | 82759.2 | -1201.5 | 2676 | 9.8  | 84112.0 | -1203.8 | 2766 | 9.7  | 85202.3 | -1257.5 | 2856 | 10.1 | 91140.0 | -1258.2 |
| 2587 | 9.7  | 82809.8 | -1205.9 | 2677 | 9.5  | 84118.9 | -1211.3 | 2767 | 10.1 | 85208.1 | -1246.8 | 2857 | 9.8  | 91214.0 | -1248.6 |
| 2588 | 9.4  | 82910.8 | -1250.2 | 2678 | 9.3  | 84127.0 | -1250.0 | 2768 | 9.5  | 85255.6 | -1208.7 | 2858 | 9.9  | 91217.2 | -1232.1 |
| 2589 | 9.5  | 82929.0 | -1224.5 | 2679 | 9.8  | 84135.1 | -1217.7 | 2769 | 9.3  | 85257.2 | -1222.4 | 2859 | 10.1 | 91225.4 | -1206.1 |
| 2590 | 9.5  | 82932.0 | -1231.5 | 2680 | 9.8  | 84136.5 | -1238.6 | 2770 | 9.4  | 85266.1 | -1212.5 | 2860 | 10.1 | 91238.1 | -1239.7 |
| 2591 | 9.5  | 82933.4 | -1215.8 | 2681 | 9.6  | 84137.6 | -1218.9 | 2771 | 9.0  | 85253.7 | -1211.8 | 2861 | 9.4  | 91248.3 | -1245.7 |
| 2592 | 9.6  | 82940.9 | -1235.5 | 2682 | 10.1 | 84147.1 | -1254.4 | 2772 | 9.1  | 85261.3 | -1230.4 | 2862 | 9.4  | 91248.3 | -1247.8 |
| 2593 | 9.8  | 82943.2 | -1250.4 | 2683 | 9.5  | 84157.2 | -1206.5 | 2773 | 10.1 | 85261.8 | -1235.5 | 2863 | 9.6  | 91253.7 | -1223.2 |
| 2594 | 9.1  | 82944.5 | -1233.6 | 2684 | 9.3  | 84205.5 | -1235.9 | 2774 | 9.8  | 85241.2 | -1202.8 | 2864 | 7.0  | 91258.5 | -1241.5 |
| 2595 | 9.1  | 82948.0 | -1232.0 | 2685 | 9.2  | 84207.9 | -1217.7 | 2775 | 9.8  | 85255.3 | -1256.4 | 2865 | 9.9  | 91312.4 | -1258.2 |
| 2596 | 9.1  | 82952.8 | -1208.4 | 2686 | 8.5  | 84210.3 | -1211.7 | 2776 | 9.2  | 85257.0 | -1202.6 | 2866 | 10.1 | 91325.7 | -1236.1 |
| 2597 | 9.4  | 82957.9 | -1214.7 | 2687 | 9.2  | 84211.7 | -1207.0 | 2777 | 8.8  | 85261.1 | -1215.9 | 2867 | 9.5  | 91335.2 | -1216.3 |
| 2598 | 9.0  | 82910.8 | -1245.9 | 2688 | 8.7  | 84211.9 | -1228.8 | 2778 | 9.2  | 85239.8 | -1228.7 | 2868 | 9.5  | 91338.5 | -1215.1 |
| 2599 | 9.8  | 82912.0 | -1254.7 | 2689 | 8.5  | 84214.3 | -1252.5 | 2779 | 8.2  | 85246.0 | -1241.1 | 2869 | 9.2  | 91346.5 | -1200.2 |
| 2600 | 7.8  | 82933.2 | -1238.8 | 2690 | 10.1 | 84224.6 | -1258.2 | 2780 | 9.4  | 85247.2 | -1237.2 | 2870 | 10.1 | 91359.0 | -1244.4 |
| 2601 | 9.8  | 82934.4 | -1231.8 | 2691 | 9.4  | 84226.1 | -1227.5 | 2781 | 9.0  | 85259.1 | -1227.0 | 2871 | 9.1  | 91407.3 | -1212.2 |
| 2602 | 9.8  | 83003.8 | -1206.5 | 2692 | 9.4  | 84227.8 | -1220.4 | 2782 | 9.1  | 85261.0 | -1207.0 | 2872 | 8.8  | 91414.2 | -1246.4 |
| 2603 | 9.4  | 83020.3 | -1235.4 | 2693 | 9.3  | 84229.7 | -1231.0 | 2783 | 9.8  | 85261.7 | -1255.1 | 2873 | 10.1 | 91419.0 | -1243.9 |
| 2604 | 9.4  | 83020.7 | -1228.1 | 2694 | 9.4  | 84238.3 | -1211.9 | 2784 | 8.3  | 85261.9 | -1231.4 | 2874 | 9.2  | 91423.3 | -1259.9 |
| 2605 | 9.3  | 83030.4 | -1247.6 | 2695 | 9.8  | 84247.3 | -1239.5 | 2785 | 8.5  | 85262.2 | -1220.4 | 2875 | 9.5  | 91425.1 | -1224.1 |
| 2606 | 9.2  | 83033.7 | -1206.6 | 2696 | 9.9  | 84254.9 | -1215.0 | 2786 | 9.0  | 85263.0 | -1247.3 | 2876 | 9.4  | 91440.6 | -1224.8 |
| 2607 | 6.7  | 83042.8 | -1205.0 | 2697 | 9.3  | 84321.6 | -1232.1 | 2787 | 9.7  | 85263.9 | -1246.5 | 2877 | 7.5  | 91455.9 | -1255.2 |
| 2608 | 9.2  | 83051.0 | -1225.2 | 2698 | 10.1 | 84322.8 | -1242.0 | 2788 | 10.1 | 85263.7 | -1254.8 | 2878 | 9.0  | 91511.9 | -1251.1 |
| 2609 | 7.8  | 83056.7 | -1201.6 | 2699 | 9.7  | 84326.5 | -1238.2 | 2789 | 9.4  | 85264.6 | -1230.8 | 2879 | 9.5  | 91535.4 | -1208.4 |
| 2610 | 7.3  | 83100.8 | -1211.7 | 2700 | 9.2  | 84328.3 | -1247.4 | 2790 | 8.7  | 85264.7 | -1220.4 | 2880 | 9.1  | 91539.8 | -1201.9 |
| 2611 | 9.1  | 83108.4 | -1252.6 | 2701 | 9.3  | 84329.3 | -1246.9 | 2791 | 9.0  | 85269.7 | -1253.1 | 2881 | 9.4  | 91551.5 | -1249.2 |
| 2612 | 9.2  | 83114.3 | -1211.9 | 2702 | 9.1  | 84329.8 | -1211.8 | 2792 | 9.1  | 85267.0 | -1238.6 | 2882 | 9.9  | 91554.3 | -1254.4 |
| 2613 | 9.2  | 83129.8 | -1209.6 | 2703 | 9.4  | 84337.1 | -1218.8 | 2793 | 9.8  | 85261.9 | -1237.9 | 2883 | 10.1 | 91642.4 | -1201.7 |
| 2614 | 10.1 | 83131.0 | -1257.0 | 2704 | 8.4  | 84338.9 | -1246.0 | 2794 | 9.5  | 85263.6 | -1221.4 | 2884 | 9.9  | 91649.3 | -1257.5 |
| 2615 | 9.8  | 83137.1 | -1227.5 | 2705 | 9.4  | 84359.9 | -1249.8 | 2795 | 9.0  | 85265.0 | -1213.7 | 2885 | 9.7  | 91702.0 | -1237.9 |
| 2616 | 8.5  | 83143.8 | -1242.0 | 2706 | 9.3  | 84406.5 | -1233.2 | 2796 | 9.1  | 85267.7 | -1249.5 | 2886 | 9.5  | 91704.1 | -1219.7 |
| 2617 | 9.1  | 83148.1 | -1247.6 | 2707 | 9.5  | 84420.3 | -1211.6 | 2797 | 9.5  | 85264.3 | -1230.1 | 2887 | 8.5  | 91719.2 | -1214.1 |
| 2618 | 9.0  | 83155.8 | -1245.4 | 2708 | 9.4  | 84456.8 | -1210.3 | 2798 | 9.5  | 90033.6 | -1216.7 | 2888 | 9.0  | 91802.4 | -1240.3 |
| 2619 | 8.5  | 83223.3 | -1213.3 | 2709 | 10.1 | 84503.1 | -1258.6 | 2799 | 9.5  | 90019.5 | -1222.0 | 2889 | 9.1  | 91803.6 | -1219.8 |
| 2620 | 6.9  | 83223.3 | -1213.3 | 2710 | 9.1  | 84504.3 | -1245.2 | 2800 | 7.0  | 90020.6 | -1243.7 | 2890 | 9.4  | 91826.5 | -1222.0 |
| 2621 | 9.5  | 83227.1 | -1232.4 | 2711 | 9.8  | 84509.8 | -1243.9 | 2801 | 9.8  | 90040.1 | -1248.8 | 2891 | 8.0  | 91829.9 | -1242.2 |
| 2622 | 9.8  | 83235.0 | -1227.7 | 2712 | 10.1 | 84525.4 | -1257.0 | 2802 | 8.7  | 90041.7 | -1206.1 | 2892 | 8.5  | 91916.8 | -1252.3 |
| 2623 | 9.1  | 83314.8 | -1245.1 | 2713 | 9.0  | 84525.6 | -1248.4 | 2803 | 9.3  | 90142.4 | -1252.8 | 2893 | 8.0  | 91927.7 | -1210.6 |
| 2624 | 9.8  | 83327.9 | -1203.6 | 2714 | 7.0  | 84527.0 | -1216.1 | 2804 | 9.7  | 90155.2 | -1231.3 | 2894 | 10.1 | 91929.8 | -1254.1 |
| 2625 | 9.7  | 83336.8 | -1231.1 | 2715 | 9.8  | 84530.0 | -1236.3 | 2805 | 10.1 | 90155.7 | -1206.9 | 2895 | 9.4  | 91931.4 | -1235.3 |
| 2626 | 9.1  | 83353.6 | -1206.5 | 2716 | 6.2  | 84537.7 | -1241.0 | 2806 | 9.4  | 90144.7 | -1254.6 | 2896 | 7.5  | 92005.6 | -1217.2 |
| 2627 | 9.5  | 83358.3 | -1237.4 | 2717 | 9.5  | 84539.8 | -1217.6 | 2807 | 9.0  | 90208.0 | -1218.1 | 2897 | 9.0  | 92012.7 | -1203.0 |
| 2628 | 9.1  | 83408.2 | -1238.9 | 2718 | 9.4  | 84544.7 | -1216.2 | 2808 | 9.0  | 90220.5 | -1234.4 | 2898 | 9.1  | 92022.3 | -1253.8 |
| 2629 | 9.8  | 83431.4 | -1231.7 | 2719 | 9.4  | 84546.4 | -1251.6 | 2809 | 8.8  | 90222.3 | -1215.1 | 2899 | 9.1  | 92032.0 | -1204.1 |
| 2630 | 9.1  | 83438.2 | -1237.3 | 2720 | 8.5  | 84546.7 | -1230.3 | 2810 | 9.1  | 90224.1 | -1236.2 | 2900 | 9.8  | 92058.6 | -1210.0 |
| 2631 | 9.3  | 83439.5 | -1258.5 | 2721 | 9.0  | 84610.7 | -1239.6 | 2811 | 10.1 | 90229.2 | -1226.7 | 2901 | 10.1 | 92101.2 | -1235.0 |
| 2632 | 8.8  | 83440.5 | -1216.6 | 2722 | 9.4  | 84613.1 | -1203.8 | 2812 | 10.1 | 90233.3 | -1223.1 | 2902 | 9.7  | 92129.5 | -1229.3 |
| 2633 | 9.5  | 83449.9 | -1207.4 | 2723 | 10.1 | 84635.4 | -1254.4 | 2813 | 10.1 | 90238.1 | -1206.0 | 2903 | 9.9  | 92133.9 | -1238.8 |
| 2634 | 9.7  | 83513.0 | -1227.6 | 2724 | 8.5  | 84657.3 | -1244.4 | 2814 | 9.5  | 90302.6 | -1251.0 | 2904 | 9.8  | 92154.7 | -1206.7 |
| 2635 | 9.5  | 83513.0 | -1214.5 | 2725 | 9.3  | 84707.5 | -1218.2 | 2815 | 8.9  | 90311.6 | -1232.5 | 2905 | 8.2  | 92157.6 | -1256.3 |
| 2636 | 8.1  | 83530.3 | -1246.7 | 2726 | 9.4  | 84711.7 | -1212.7 | 2816 | 8.7  | 90324.8 | -1235.1 | 2906 | 9.9  | 92159.2 | -1229.9 |
| 2637 | 10.1 | 83534.0 | -1255.8 | 2727 | 9.2  | 84752.6 | -1251.1 | 2817 | 10.1 | 90356.7 | -1234.1 | 2907 | 10.1 | 92208.8 | -1241.5 |
| 2638 | 9.8  | 83540.1 | -1255.9 | 2728 | 9.5  | 84758.0 | -1202.5 | 2818 | 8.2  | 90400.1 | -1204.0 | 2908 | 9.6  | 92217.2 | -1202.3 |
| 2639 | 10.1 | 83544.7 | -1231.5 | 2729 | 8.9  | 84830.3 | -1246.0 | 2819 | 9.9  | 90408.2 | -1244.9 | 2909 | 9.7  | 92245.9 | -1246.8 |
| 2640 | 9.5  | 83606.4 | -1252.0 | 2730 | 8.7  | 84831.2 | -1217.3 | 2820 | 10.1 | 90421.2 | -1243.6 | 2910 | 10.1 | 92246.5 | -1251.6 |
| 2641 | 9.5  | 83613.6 | -1204.8 | 2731 | 9.7  | 84833.8 | -1248.7 | 2821 | 10.1 | 90425.6 | -1258.6 | 2911 | 9.0  | 92248.5 | -1245.5 |
| 2642 | 9.6  | 83623.5 | -1218.0 | 2732 | 10.1 | 84844.2 | -1228.3 | 2822 | 9.6  | 90437.0 | -1210.0 | 2912 | 8.3  | 92249.8 | -1206.0 |
| 2643 | 9.7  | 83627.4 | -1219.0 | 2733 | 9.3  | 84902.7 | -1259.8 | 2823 | 9.5  | 90444.1 | -1223.5 | 2913 | 9.0  | 92318.0 | -1206.0 |
| 2644 | 9.1  | 83647.6 | -1229.8 | 2734 | 9.4  | 84906.9 | -1220.3 | 2824 | 9.8  | 90459.4 | -1214.0 | 2914 | 9.3  | 92319.6 | -1228.4 |
| 2645 | 9.8  | 83648.8 | -1247.5 | 2735 | 9.8  | 84918.3 | -1202.9 | 2825 | 9.0  | 90510.9 | -1249.1 | 2915 | 9.1  | 92326.2 | -1235.5 |
| 2646 | 9.3  | 83649.2 | -1231.1 | 2736 | 9.8  | 84939.4 | -1238.4 | 2826 | 8.6  | 90516.4 | -1246.0 | 2916 | 10.1 | 92327.6 | -1229.3 |
| 2647 | 9.8  | 83659.5 | -1217.6 | 2737 | 9.4  | 84942.6 | -1207.5 | 2827 | 10.1 | 90521.3 | -1228.8 | 2917 | 9.1  | 92357.7 | -1252.8 |
| 2648 | 9.2  | 83701.1 | -1242.1 | 2738 | 9.5  | 85005.2 | -1216.2 | 2828 | 9.4  | 90544.3 | -1220.8 | 2918 | 9.5  | 92415.7 | -1251.7 |
| 2649 | 10.1 | 83703.8 | -1241.7 | 2739 | 9.7  | 85009.3 | -1248.2 | 2829 |      |         |         |      |      |         |         |



2935 9.7 92740.0 -1232.2  
 2936 10. 92748.3 -1254.1  
 2937 9.8 92806.7 -1214.2  
 2938 9.4 92815.0 -1225.6  
 2939 9.5 92827.4 -1218.0  
 2940 9.5 92847.2 -1228.1  
 2941 9.8 92847.7 -1250.3  
 2942 9.5 92849.8 -1256.8  
 2943 9.0 92911.4 -1213.6  
 2944 8.7 92916.8 -1254.9

2945 10. 92927.5 -1213.3  
 2946 9.0 92931.9 -1234.9  
 2947 10. 92938.7 -1239.5  
 2948 9.1 93011.9 -1201.9  
 2949 9.6 93027.8 -1219.7  
 2950 9.8 93028.1 -1218.1  
 2951 8.5 93040.6 -1239.3  
 2952 9.5 93102.4 -1251.7  
 2953 9.0 93109.5 -1252.3  
 2954 9.8 93111.1 -1215.8

2955 9.1 93122.0 -1201.1  
 2956 10. 93126.1 -1238.5  
 2957 9.8 93127.8 -1247.5  
 2958 9.8 93222.6 -1213.9  
 2959 9.5 93229.9 -1230.6  
 2960 6.8 93303.2 -1220.5  
 2961 9.5 93313.2 -1224.0  
 2962 9.4 93358.9 -1210.4  
 2963 8.1 93400.6 -1226.5  
 2964 9.7 93403.1 -1232.5

2965 9.2 93413.2 -1217.5  
 2966 9.2 93450.0 -1239.2  
 2967 9.0 93456.0 -1247.0  
 2968 9.8 93505.4 -1245.7  
 2969 10. 93507.3 -1253.8  
 2970 9.6 93507.8 -1256.0  
 2971 8.3 93508.2 -1215.8  
 2972 8.7 93511.2 -1224.3  
 2973 9.2 93514.0 -1230.5  
 2974 9.6 93524.1 -1223.7

2975 9.8 93533.1 -1255.8  
 2976 9.5 93549.7 -1218.3  
 2977 9.8 93604.8 -1257.1  
 2978 8.9 93653.9 -1226.2  
 2979 9.0 93720.9 -1247.6  
 2980 9.5 93722.7 -1202.0  
 2981 9.0 93816.5 -1233.4  
 2982 9.6 93846.1 -1220.7  
 2983 8.5 93859.7 -1234.4  
 2984 9.4 93902.2 -1211.7

2985 9.6 93906.3 -1254.5  
 2986 9.3 93912.6 -1220.0  
 2987 10. 93927.2 -1208.2  
 2988 9.4 94023.8 -1207.0  
 2989 10. 94023.8 -1226.4  
 2990 8.9 94037.8 -1251.0  
 2991 9.4 94041.3 -1207.2  
 2992 9.5 94058.5 -1254.3  
 2993 10. 94117.4 -1240.4  
 2994 8.8 94120.8 -1250.7

2995 9.2 94122.0 -1252.3  
 2996 8.9 94125.7 -1230.1  
 2997 9.5 94136.1 -1248.2  
 2998 9.6 94145.8 -1254.5  
 2999 9.4 94210.8 -1200.8  
 3000 9.0 94212.8 -1246.1  
 3001 8.7 94224.2 -1200.1  
 3002 8.0 94255.5 -1207.8  
 3003 9.0 94350.7 -1244.6  
 3004 8.3 94359.6 -1216.4

3005 8.6 94407.2 -1251.4  
 3006 9.4 94423.3 -1205.0  
 3007 8.8 94426.1 -1214.6  
 3008 9.8 94430.3 -1239.4  
 3009 9.8 94509.2 -1252.8  
 3010 9.8 94522.2 -1208.5  
 3011 9.5 94525.2 -1247.5  
 3012 8.6 94559.4 -1229.0  
 3013 8.5 94610.3 -1251.7  
 3014 9.1 94611.2 -1212.5

3015 9.3 94635.1 -1231.4  
 3016 9.8 94640.0 -1211.6  
 3017 9.1 94656.0 -1250.8  
 3018 9.5 94702.2 -1203.1  
 3019 8.4 94725.3 -1214.4  
 3020 9.6 94731.7 -1237.9  
 3021 6.8 94732.0 -1215.1  
 3022 9.4 94740.9 -1227.0  
 3023 9.5 94750.1 -1210.3  
 3024 9.5 94752.2 -1200.0

3025 9.4 94752.9 -1202.2  
 3026 9.2 94800.1 -1248.3  
 3027 10. 94826.9 -1222.0  
 3028 9.5 94845.7 -1240.6  
 3029 8.7 94849.1 -1247.7  
 3030 9.8 94920.3 -1228.7  
 3031 6.8 94929.7 -1246.7  
 3032 10. 94954.0 -1247.2  
 3033 9.2 94957.9 -1214.5  
 3034 9.5 95005.0 -1215.4

3035 9.8 95026.5 -1254.3  
 3036 9.0 95030.5 -1231.9  
 3037 9.3 95049.0 -1243.4  
 3038 9.0 95049.7 -1206.8  
 3039 7.3 95106.2 -1226.2  
 3040 9.5 95129.6 -1233.8  
 3041 9.0 95130.4 -1236.5  
 3042 9.2 95134.5 -1245.6  
 3043 9.2 95136.6 -1203.0  
 3044 9.5 95153.7 -1237.4

3045 7.5 95211.6 -1203.8  
 3046 8.9 95239.5 -1247.6  
 3047 9.6 95307.8 -1230.5  
 3048 9.6 95309.6 -1237.9  
 3049 9.0 95333.4 -1255.7  
 3050 9.5 95345.2 -1230.5  
 3051 9.5 95428.0 -1201.0  
 3052 9.5 95430.9 -1207.0  
 3053 9.1 95433.4 -1213.7  
 3054 9.1 95433.4 -1249.3

3055 7.5 95448.4 -1211.9  
 3056 9.5 95512.0 -1246.0  
 3057 6.8 95531.4 -1236.0  
 3058 9.5 95538.3 -1219.3  
 3059 9.2 95606.0 -1232.8  
 3060 9.2 95610.4 -1236.1  
 3061 9.5 95611.9 -1244.3  
 3062 8.3 95620.9 -1210.6  
 3063 9.5 95634.0 -1245.6  
 3064 7.3 95635.1 -1211.3

3065 9.4 95639.2 -1236.0  
 3066 9.5 95701.8 -1256.8  
 3067 9.4 95716.5 -1238.3  
 3068 9.4 95728.7 -1256.9  
 3069 10. 95736.4 -1238.8  
 3070 9.5 95739.4 -1241.9  
 3071 9.1 95749.6 -1259.1  
 3072 9.5 95755.8 -1218.5  
 3073 4.5 95804.7 -1221.9  
 3074 8.5 95822.8 -1216.5

3075 8.8 95834.0 -1251.5  
 3076 9.3 95834.5 -1225.2  
 3077 9.5 95902.6 -1234.3  
 3078 10. 95911.2 -1257.8  
 3079 9.3 95916.3 -1251.3  
 3080 9.1 95932.7 -1256.1  
 3081 9.4 95948.9 -1200.2  
 3082 9.8 95950.0 -1214.7  
 3083 8.8 95953.8 -1211.1  
 3084 9.8 100022.2 -1228.3

3085 9.0 100025.9 -1230.9  
 3086 9.4 100043.3 -1216.8  
 3087 9.3 100044.8 -1205.9  
 3088 9.7 100050.9 -1243.5  
 3089 8.3 100051.5 -1249.4  
 3090 9.5 100054.4 -1247.7  
 3091 10. 100055.7 -1253.9  
 3092 9.2 100113.8 -1242.8  
 3093 9.1 100117.6 -1221.0  
 3094 9.0 100130.6 -1219.9

3095 9.3 100144.9 -1237.2  
 3096 9.4 100156.0 -1224.1  
 3097 7.8 100157.9 -1229.3  
 3098 6.8 100217.8 -1239.2  
 3099 10. 100240.3 -1206.1  
 3100 8.8 100251.7 -1210.0  
 3101 5.8 100301.8 -1206.2  
 3102 10. 100307.9 -1231.8  
 3103 9.0 100317.2 -1248.6  
 3104 8.4 100341.7 -1209.1

3105 10. 100347.1 -1255.8  
 3106 9.7 100415.9 -1236.1  
 3107 9.7 100437.2 -1247.7  
 3108 8.5 100455.1 -1251.0  
 3109 9.8 100516.3 -1204.4  
 3110 9.4 100524.1 -1220.1  
 3111 9.5 100533.7 -1242.5  
 3112 10. 100534.2 -1241.4  
 3113 10. 100608.8 -1231.1  
 3114 9.7 100619.8 -1225.5

3115 10. 100621.4 -1247.1  
 3116 9.8 100631.8 -1233.6  
 3117 9.7 100651.4 -1233.8  
 3118 10. 100653.0 -1253.6  
 3119 8.5 100733.6 -1250.4  
 3120 9.8 100745.8 -1221.2  
 3121 9.0 100750.2 -1245.3  
 3122 9.7 100805.3 -1231.7  
 3123 9.8 100826.5 -1252.0  
 3124 9.1 100840.1 -1211.4

3125 9.8 100903.1 -1225.7  
 3126 10. 100913.1 -1245.8  
 3127 9.4 100934.8 -1235.7  
 3128 9.6 100941.3 -1208.6  
 3129 7.3 100941.5 -1222.8  
 3130 9.8 101011.3 -1228.4  
 3131 9.3 101035.6 -1206.5  
 3132 8.3 101045.0 -1248.5  
 3133 9.4 101053.9 -1250.5  
 3134 9.8 101057.5 -1222.8

3135 9.0 101104.4 -1237.1  
 3136 7.0 101118.0 -1234.9  
 3137 9.1 101119.6 -1237.5  
 3138 9.5 101208.3 -1216.6  
 3139 10. 101240.4 -1201.3  
 3140 9.8 101251.5 -1218.0  
 3141 8.5 101300.2 -1222.8  
 3142 9.0 101304.3 -1244.8  
 3143 9.0 101313.9 -1217.5  
 3144 9.0 101317.7 -1228.4

3145 9.0 101422.4 -1222.3  
 3146 9.0 101432.4 -1214.9  
 3147 7.0 101504.5 -1240.5  
 3148 8.7 101512.3 -1256.8  
 3149 9.3 101513.5 -1239.8  
 3150 6.8 101612.4 -1238.5  
 3151 9.8 101619.1 -1230.5  
 3152 9.1 101619.5 -1252.0  
 3153 9.8 101619.5 -1235.0  
 3154 8.5 101652.2 -1235.3

3155 8.7 101656.3 -1256.4  
 3156 9.8 101658.0 -1259.3  
 3157 10. 101710.8 -1221.0  
 3158 8.8 101718.3 -1221.9  
 3159 9.3 101745.0 -1257.8  
 3160 9.0 101816.5 -1224.0  
 3161 7.5 101819.9 -1201.7  
 3162 7.3 101845.2 -1224.0  
 3163 9.1 101856.4 -1210.0  
 3164 9.8 101906.8 -1219.2

3165 9.9 101920.4 -1238.0  
 3166 10. 101937.6 -1251.8  
 3167 9.2 101958.7 -1248.0  
 3168 9.8 102022.5 -1227.4  
 3169 9.1 102036.1 -1255.3  
 3170 9.3 102038.2 -1202.9  
 3171 9.3 102045.7 -1246.5  
 3172 9.1 102047.0 -1257.9  
 3173 9.8 102121.2 -1250.3  
 3174 9.5 102146.5 -1203.0

3175 9.8 102208.6 -1223.2  
 3176 9.8 102225.4 -1227.6  
 3177 9.7 102244.0 -1234.2  
 3178 9.6 102314.2 -1246.5  
 3179 9.6 102346.1 -1250.4  
 3180 9.5 102346.6 -1254.9  
 3181 6.0 102352.6 -1250.6  
 3182 9.5 102357.2 -1224.8  
 3183 9.3 102403.8 -1238.1  
 3184 8.8 102414.6 -1221.5

3185 9.3 102426.2 -1247.2  
 3186 9.5 102426.9 -1244.8  
 3187 9.4 102439.0 -1251.6  
 3188 9.8 102453.4 -1246.3  
 3189 9.7 102453.5 -1232.2  
 3190 9.3 102457.7 -1218.8  
 3191 9.8 102531.2 -1227.3  
 3192 8.9 102540.1 -1222.8  
 3193 9.5 102547.3 -1204.0  
 3194 6.8 102605.0 -1239.4

3195 9.2 102606.2 -1215.5  
 3196 9.3 102607.1 -1218.7  
 3197 9.8 102636.2 -1241.9  
 3198 9.8 102656.6 -1221.1  
 3199 9.4 102659.2 -1210.2  
 3200 9.4 102721.7 -1211.1  
 3201 9.8 102727.3 -1200.1  
 3202 9.0 102727.7 -1212.6  
 3203 9.8 102748.4 -1215.3  
 3204 10. 102749.6 -1207.9

3205 7.0 102813.7 -1206.2  
 3206 9.1 102819.2 -1208.2  
 3207 10. 102823.6 -1231.7  
 3208 8.0 102829.8 -1215.1  
 3209 9.4 102836.1 -1213.8  
 3210 9.6 102858.2 -1229.0  
 3211 9.3 102906.7 -1238.7  
 3212 9.5 102919.5 -1250.8  
 3213 9.0 102929.8 -1243.4  
 3214 8.5 102940.5 -1247.2

3215 9.5 102952.9 -1227.1  
 3216 9.4 102958.4 -1252.8  
 3217 9.3 103004.7 -1202.6  
 3218 30.0 103023.6 -1238.1  
 3219 8.0 103045.6 -1211.5  
 3220 10. 103046.7 -1245.3  
 3221 9.7 103052.2 -1223.3  
 3222 9.1 103055.1 -1212.1  
 3223 9.3 103057.7 -1246.0  
 3224 8.8 103129.4 -1259.9

3225 9.8 103130.3 -1208.6  
 3226 9.4 103142.9 -1215.8  
 3227 9.9 103208.2 -1220.9  
 3228 7.5 103227.3 -1214.5  
 3229 10. 103237.5 -1226.8  
 3230 8.6 103300.8 -1239.0  
 3231 9.9 103316.2 -1236.0  
 3232 10. 103316.7 -1241.7  
 3233 8.2 103316.9 -1231.4  
 3234 9.8 103324.6 -1235.6

3235 8.7 103324.8 -1245.2  
 3236 9.0 103346.0 -1220.3  
 3237 8.0 103346.8 -1222.8  
 3238 10. 103346.8 -1255.0  
 3239 9.4 103350.2 -1234.9  
 3240 9.3 103352.0 -1201.7  
 3241 10. 103408.8 -1200.0  
 3242 9.4 103442.1 -1237.5  
 3243 9.3 103507.8 -1206.7  
 3244 9.8 103521.2 -1246.5

3245 9.8 103552.5 -1229.5  
 3246 9.6 103559.8 -1220.0  
 3247 9.3 103613.3 -1217.8  
 3248 8.0 103613.5 -1231.5  
 3249 9.5 103615.7 -1236.7  
 3250 9.6 103616.4 -1233.2  
 3251 9.4 103644.8 -1221.7  
 3252 8.8 103701.2 -1201.7  
 3253 9.4 103756.1 -1230.2  
 3254 9.8 103759.7 -1211.4

3255 9.2 103802.6 -1201.5  
 3256 10. 103806.6 -1251.4  
 3257 10. 103824.6 -1241.0  
 3258 9.0 103828.1 -1251.6  
 3259 9.5 103828.4 -1200.4  
 3260 9.7 103837.4 -1235.9  
 3261 9.3 103848.6 -1255.9  
 3262 9.8 103904.2 -1221.4  
 3263 9.6 103910.7 -1213.1  
 3264 7.0 103914.5 -1241.8

3265 9.0 103925.6 -1247.9  
 3266 9.7 103929.0 -1224.4  
 3267 9.9 103949.6 -1257.2  
 3268 9.1 104001.2 -1202.1  
 3269 9.8 104023.7 -1227.6  
 3270 9.7 104046.7 -1230.1  
 3271 9.3 104112.9 -1258.7  
 3272 10. 104114.9 -1220.0  
 3273 10. 104119.7 -1221.0  
 3274 10. 104224.0 -1238.9

3275 9.8 104237.0 -1256.7  
 3276 9.0 104250.7 -1235.3  
 3277 8.8 104312.7 -1240.4  
 3278 9.1 104319.9 -1240.0  
 3279 9.8 104405.7 -1214.8  
 3280 8.0 104409.8 -1203.4  
 3281 9.2 104441.6 -1215.5  
 3282 10. 104448.4 -1241.9  
 3283 9.4 104450.0 -1207.9  
 3284 9.0 104457.0 -1235.2

3285 10. 104458.9 -1207.3  
 3286 9.1 104503.0 -1259.9  
 3287 9.7 104507.6 -1226.3  
 3288 9.6 104513.9 -1238.0  
 3289 10. 104611.4 -1236.7  
 3290 9.1 104701.1 -1223.7  
 3291 9.5 104701.2 -1254.7  
 3292 9.1 104706.5 -1216.3  
 3293 6.3 104706.6 -1259.4  
 3294 9.0 104709.5 -1220.4



3295 9.1 104728.4 -1211.9  
 3296 9.8 104757.4 -1245.1  
 3297 9.6 104807.0 -1217.5  
 3298 8.5 104815.3 -1239.6  
 3299 9.5 104819.4 -1247.7  
 3300 9.3 104835.4 -1256.0  
 3301 10. 104838.9 -1259.3  
 3302 9.8 104841.8 -1247.2  
 3303 9.8 104851.5 -1224.1  
 3304 9.9 104859.6 -1255.0

3305 9.9 104859.6 -1253.5  
 3306 8.6 104912.0 -1201.4  
 3307 9.8 104936.5 -1207.3  
 3308 10. 104937.3 -1247.9  
 3309 9.7 104958.0 -1215.8  
 3310 9.7 105027.6 -1201.5  
 3311 9.3 105031.7 -1231.5  
 3312 9.2 105050.3 -1250.9  
 3313 10. 105101.8 -1228.4  
 3314 9.4 105129.8 -1203.5

3315 9.7 105139.5 -1255.4  
 3316 8.9 105143.3 -1210.7  
 3317 9.8 105156.2 -1244.6  
 3318 9.8 105206.1 -1228.9  
 3319 9.0 105236.6 -1234.6  
 3320 8.9 105250.2 -1217.9  
 3321 8.0 105254.8 -1233.4  
 3322 9.9 105321.3 -1259.9  
 3323 10. 105328.7 -1254.0  
 3324 9.8 105435.4 -1227.1

3325 9.8 105508.1 -1238.7  
 3326 9.3 105513.1 -1240.5  
 3327 9.1 105517.3 -1219.4  
 3328 9.3 105533.1 -1243.7  
 3329 9.6 105540.3 -1232.4  
 3330 9.6 105555.0 -1200.0  
 3331 9.3 105601.7 -1234.9  
 3332 9.6 105618.0 -1231.1  
 3333 7.0 105622.6 -1239.4  
 3334 9.4 105637.2 -1259.7

3335 9.4 105640.7 -1244.0  
 3336 9.4 105653.2 -1249.1  
 3337 10. 105718.6 -1244.9  
 3338 9.7 105719.1 -1231.9  
 3339 8.8 105738.1 -1229.6  
 3340 9.6 105753.6 -1256.4  
 3341 9.9 105758.8 -1227.0  
 3342 9.8 105840.7 -1221.8  
 3343 8.0 105858.3 -1217.1  
 3344 9.8 105908.2 -1210.9

3345 9.7 105915.7 -1208.5  
 3346 8.0 105916.3 -1238.0  
 3347 9.0 105916.4 -1237.6  
 3348 6.3 105926.7 -1213.1  
 3349 8.5 105959.5 -1252.7  
 3350 9.5 105954.4 -1256.4  
 3351 9.1 110121.3 -1206.2  
 3352 9.8 110130.0 -1248.2  
 3353 8.3 110144.2 -1226.9  
 3354 9.6 110144.3 -1223.5

3355 9.8 110224.2 -1225.0  
 3356 9.5 110236.6 -1210.7  
 3357 9.0 110239.8 -1221.5  
 3358 9.0 110253.1 -1213.2  
 3359 9.0 110308.5 -1223.0  
 3360 9.7 110311.3 -1216.3  
 3361 10. 110311.7 -1226.4  
 3362 7.5 110334.4 -1219.6  
 3363 9.5 110350.9 -1258.3  
 3364 9.8 110357.5 -1211.9

3365 9.8 110400.8 -1230.7  
 3366 9.7 110420.9 -1239.3  
 3367 9.5 110433.2 -1202.1  
 3368 9.0 110506.1 -1203.2  
 3369 10. 110509.4 -1257.4  
 3370 10. 110530.3 -1220.9  
 3371 9.5 110539.5 -1212.1  
 3372 9.4 110546.6 -1204.2  
 3373 9.7 110601.6 -1251.7  
 3374 9.9 110618.5 -1210.3

3375 9.2 110629.4 -1212.3  
 3376 8.2 110646.3 -1200.4  
 3377 9.6 110646.3 -1230.8  
 3378 9.8 110720.8 -1258.5  
 3379 9.5 110746.4 -1216.7  
 3380 9.0 110756.8 -1230.2  
 3381 8.5 110759.5 -1210.0  
 3382 9.0 110832.3 -1222.3  
 3383 10. 110838.2 -1202.7  
 3384 9.1 110913.7 -1252.2

3385 10. 110928.0 -1243.0  
 3386 8.6 110940.4 -1216.9  
 3387 8.9 110950.1 -1221.4  
 3388 10. 110952.2 -1246.1  
 3389 9.4 111020.0 -1256.0  
 3390 10. 111043.5 -1202.0  
 3391 8.8 111046.0 -1213.4  
 3392 9.3 111047.8 -1226.9  
 3393 9.0 111100.3 -1235.5  
 3394 9.1 111101.5 -1238.1

3395 9.6 111104.0 -1201.9  
 3396 10. 111126.7 -1240.1  
 3397 9.3 111128.8 -1221.6  
 3398 9.6 111154.2 -1222.1  
 3399 9.9 111201.4 -1258.3  
 3400 17. 111218.7 -1219.7  
 3401 7.1 111226.1 -1239.5  
 3402 9.5 111235.3 -1208.4  
 3403 10. 111306.7 -1249.0  
 3404 9.8 111326.0 -1232.0

3405 9.2 111424.4 -1205.7  
 3406 10. 111428.1 -1245.7  
 3407 9.7 111429.7 -1223.0  
 3408 9.6 111432.0 -1231.6  
 3409 8.0 111441.7 -1225.1  
 3410 9.8 111452.4 -1201.9  
 3411 9.3 111501.8 -1225.4  
 3412 9.2 111511.0 -1228.1  
 3413 10. 111526.0 -1235.8  
 3414 9.7 111537.6 -1258.8

3415 9.4 111543.1 -1250.1  
 3416 9.6 111543.6 -1258.7  
 3417 8.6 111557.3 -1206.1  
 3418 9.8 111621.8 -1235.1  
 3419 9.3 111630.5 -1246.8  
 3420 8.9 111645.3 -1235.0  
 3421 8.5 111657.2 -1206.8  
 3422 10. 111729.7 -1239.6  
 3423 7.0 111835.9 -1257.3  
 3424 9.8 111906.8 -1201.4

3425 9.5 111912.6 -1220.5  
 3426 9.0 111917.0 -1252.0  
 3427 9.5 111920.0 -1258.9  
 3428 9.4 111921.7 -1214.0  
 3429 10. 111928.1 -1216.7  
 3430 10. 111930.9 -1239.1  
 3431 9.5 111939.2 -1235.8  
 3432 8.2 112018.0 -1218.2  
 3433 9.8 112113.4 -1258.6  
 3434 9.5 112119.6 -1209.0

3435 10. 112141.8 -1236.2  
 3436 9.8 112148.7 -1254.8  
 3437 9.6 112152.1 -1214.9  
 3438 9.8 112243.5 -1212.0  
 3439 9.3 112301.9 -1250.2  
 3440 9.7 112306.6 -1212.3  
 3441 8.7 112314.1 -1220.4  
 3442 7.2 112319.5 -1214.8  
 3443 9.2 112330.6 -1211.9  
 3444 9.8 112449.9 -1202.9

3445 9.1 112507.7 -1244.6  
 3446 10. 112528.3 -1254.7  
 3447 9.6 112530.0 -1243.8  
 3448 9.2 112553.9 -1234.8  
 3449 9.8 112605.4 -1208.4  
 3450 10. 112616.7 -1259.0  
 3451 9.1 112625.5 -1205.7  
 3452 9.7 112626.8 -1243.8  
 3453 10. 112646.3 -1250.3  
 3454 9.5 112652.7 -1244.2

3455 8.0 112655.0 -1203.8  
 3456 9.1 112714.2 -1222.5  
 3457 9.6 112723.4 -1209.2  
 3458 9.5 112732.2 -1226.5  
 3459 9.4 112747.6 -1230.5  
 3460 9.4 112751.7 -1253.9  
 3461 9.1 112924.6 -1256.1  
 3462 9.9 112953.4 -1210.0  
 3463 9.5 113025.3 -1208.4  
 3464 9.5 113038.6 -1244.0

3465 9.0 113046.7 -1223.3  
 3466 5.2 113118.6 -1223.8  
 3467 8.8 113146.5 -1236.7  
 3468 9.8 113159.7 -1246.2  
 3469 9.9 113206.4 -1215.1  
 3470 7.0 113208.8 -1222.4  
 3471 10. 113317.7 -1240.7  
 3472 9.4 113358.6 -1242.8  
 3473 8.9 113409.2 -1238.8  
 3474 10. 113433.7 -1241.5

3475 10. 113433.8 -1217.5  
 3476 9.5 113445.9 -1209.5  
 3477 8.3 113458.8 -1225.2  
 3478 9.8 113510.0 -1242.4  
 3479 9.6 113514.4 -1213.5  
 3480 10. 113533.1 -1240.6  
 3481 9.5 113639.9 -1219.7  
 3482 9.0 113728.0 -1254.7  
 3483 9.8 113823.7 -1244.5  
 3484 9.1 113833.4 -1205.0

3485 9.9 113849.9 -1256.8  
 3486 9.7 113850.5 -1231.5  
 3487 9.8 113905.7 -1221.3  
 3488 10. 113931.5 -1242.8  
 3489 9.1 114009.3 -1213.5  
 3490 10. 114021.0 -1233.4  
 3491 9.8 114046.3 -1233.3  
 3492 9.8 114050.5 -1221.2  
 3493 9.7 114057.7 -1225.7  
 3494 9.5 114103.2 -1212.5

3495 9.7 114120.9 -1243.5  
 3496 9.2 114124.3 -1229.6  
 3497 9.2 114140.1 -1226.0  
 3498 10. 114150.3 -1242.5  
 3499 8.4 114204.1 -1200.4  
 3500 10. 114210.4 -1236.4  
 3501 7.2 114222.9 -1250.5  
 3502 10. 114233.5 -1206.8  
 3503 9.5 114234.2 -1224.3  
 3504 8.3 114243.3 -1238.0

3505 7.2 114317.8 -1203.3  
 3506 9.1 114330.4 -1248.3  
 3507 8.3 114339.9 -1253.0  
 3508 7.1 114339.9 -1230.9  
 3509 9.8 114349.2 -1233.6  
 3510 9.2 114349.8 -1237.5  
 3511 9.9 114350.2 -1220.8  
 3512 9.9 114352.4 -1229.1  
 3513 9.8 114412.9 -1217.9  
 3514 10. 114453.7 -1250.5

3515 9.1 114455.0 -1259.0  
 3516 9.8 114503.1 -1214.3  
 3517 10. 114547.3 -1244.5  
 3518 10. 114621.0 -1252.2  
 3519 10. 114645.0 -1233.4  
 3520 9.8 114645.2 -1206.7  
 3521 10. 114647.7 -1232.5  
 3522 9.6 114649.8 -1200.1  
 3523 9.8 114658.7 -1251.2  
 3524 9.5 114734.1 -1210.9

3525 9.4 114743.0 -1223.5  
 3526 9.1 114833.1 -1206.4  
 3527 9.8 114835.6 -1207.8  
 3528 9.8 114844.0 -1215.4  
 3529 9.3 114846.4 -1234.3  
 3530 10. 114904.6 -1245.8  
 3531 10. 114915.9 -1253.0  
 3532 6.7 114931.8 -1256.7  
 3533 9.3 115009.9 -1219.8  
 3534 9.0 115014.4 -1249.6

3535 9.3 115015.3 -1256.2  
 3536 9.3 115015.9 -1245.6  
 3537 9.5 115048.4 -1221.4  
 3538 8.8 115105.1 -1257.6  
 3539 9.0 115143.3 -1219.2  
 3540 9.5 115147.8 -1225.6  
 3541 9.2 115151.6 -1246.8  
 3542 9.8 115221.7 -1226.5  
 3543 9.1 115240.2 -1223.4  
 3544 9.3 115254.3 -1243.3

3545 9.6 115255.6 -1232.5  
 3546 9.7 115349.5 -1200.7  
 3547 9.5 115406.7 -1227.5  
 3548 9.8 115424.5 -1202.2  
 3549 10. 115434.7 -1227.5  
 3550 8.9 115446.2 -1236.9  
 3551 9.4 115515.7 -1238.3  
 3552 9.8 115523.7 -1207.8  
 3553 9.0 115533.1 -1216.1  
 3554 9.4 115629.6 -1228.0

3555 9.7 115646.9 -1253.8  
 3556 9.5 115657.2 -1219.0  
 3557 9.4 115702.2 -1216.3  
 3558 9.4 115708.8 -1213.7  
 3559 9.2 115715.5 -1201.4  
 3560 8.7 115722.8 -1256.4  
 3561 8.0 115835.7 -1210.5  
 3562 9.5 115847.6 -1216.4  
 3563 9.5 115918.1 -1217.2  
 3564 9.5 120008.3 -1206.7

3565 10. 120009.9 -1221.1  
 3566 9.6 120021.8 -1206.0  
 3567 9.3 120146.5 -1211.8  
 3568 9.1 120149.6 -1213.6  
 3569 7.7 120155.7 -1207.6  
 3570 9.9 120211.9 -1215.0  
 3571 9.8 120216.4 -1259.0  
 3572 9.5 120230.5 -1240.1  
 3573 8.0 120232.0 -1237.6  
 3574 9.2 120245.4 -1216.7

3575 9.6 120253.0 -1216.5  
 3576 9.5 120301.0 -1252.9  
 3577 9.6 120326.9 -1200.6  
 3578 8.8 120408.3 -1253.3  
 3579 9.4 120421.0 -1217.8  
 3580 9.9 120456.0 -1212.8  
 3581 9.5 120507.0 -1218.5  
 3582 9.2 120522.2 -1252.7  
 3583 9.5 120526.0 -1217.2  
 3584 9.5 120536.4 -1222.1

3585 9.5 120552.3 -1211.5  
 3586 9.8 120624.1 -1209.3  
 3587 9.6 120639.4 -1221.5  
 3588 9.0 120640.9 -1201.2  
 3589 8.5 120659.6 -1212.4  
 3590 9.0 120711.2 -1248.3  
 3591 9.4 120726.0 -1241.8  
 3592 9.1 120751.4 -1227.5  
 3593 9.2 120757.1 -1238.5  
 3594 9.4 120759.6 -1240.7

3595 9.1 120828.8 -1203.8  
 3596 9.8 120848.5 -1204.5  
 3597 9.4 120854.0 -1259.0  
 3598 9.1 120908.9 -1212.5  
 3599 9.1 121000.6 -1234.1  
 3600 9.1 121004.5 -1224.8  
 3601 9.9 121029.1 -1204.5  
 3602 9.3 121108.0 -1259.6  
 3603 7.7 121131.9 -1244.0  
 3604 9.1 121204.0 -1238.6

3605 9.5 121209.3 -1216.3  
 3606 9.3 121215.1 -1233.3  
 3607 9.6 121218.5 -1235.0  
 3608 9.8 121222.4 -1201.2  
 3609 10. 121238.6 -1231.5  
 3610 9.9 121241.1 -1241.3  
 3611 9.2 121241.5 -1244.1  
 3612 9.1 121259.7 -1221.4  
 3613 8.0 121322.5 -1202.7  
 3614 5.0 121327.5 -1245.8

3615 9.8 121330.7 -1219.5  
 3616 8.6 121407.2 -1252.7  
 3617 9.3 121412.0 -1249.4  
 3618 9.5 121430.8 -1225.7  
 3619 8.8 121431.7 -1251.6  
 3620 9.1 121437.9 -1241.3  
 3621 8.3 121440.7 -1221.7  
 3622 9.7 121504.6 -1218.5  
 3623 6.8 121516.6 -1218.5  
 3624 9.5 121536.9 -1222.5

3625 9.8 121543.7 -1212.5  
 3626 9.6 121544.9 -1218.9  
 3627 9.3 121637.2 -1211.1  
 3628 9.4 121654.1 -1249.0  
 3629 9.2 121715.7 -1225.4  
 3630 9.5 121718.4 -1242.7  
 3631 9.8 121735.7 -1215.1  
 3632 9.4 121738.3 -1236.9  
 3633 9.4 121757.5 -1225.2  
 3634 8.6 121758.9 -1232.2

3635 9.5 121807.6 -1218.5  
 3636 9.8 121852.4 -1256.1  
 3637 8.2 121902.2 -1259.4  
 3638 9.1 121908.6 -1243.4  
 3639 9.8 121946.3 -1231.8  
 3640 8.9 122017.1 -1212.3  
 3641 8.8 122020.7 -1247.7  
 3642 9.5 122049.3 -1204.0  
 3643 9.1 122109.8 -1200.5  
 3644 8.5 122136.0 -1230.0

3645 9.5 122154.4 -1213.2  
 3646 9.4 122278.2 -1243.1  
 3647 6.5 122336.7 -1235.3  
 3648 9.1 122336.9 -1210.6  
 3649 9.4 122347.2 -1243.1  
 3650 9.4 122311.6 -1247.9  
 3651 9.3 122315.4 -1223.8  
 3652 8.5 122358.7 -1246.0  
 3653 9.8 122434.1 -1202.8  
 3654 9.8 122450.0 -1214.0



-12 3655 12h25m

3655 9.9 122510.7 -1254.1  
3656 9.6 122516.3 -1255.6  
3657 9.4 122525.4 -1258.3  
3658 9.3 122554.6 -1223.6  
3659 5.4 122603.2 -1201.6  
3660 9.1 122611.3 -1204.7  
3661 9.4 122623.4 -1202.0  
3662 8.8 122631.8 -1206.4  
3663 9.8 122831.6 -1246.9  
3664 9.8 122844.7 -1241.7

3665 9.3 122914.8 -1223.7  
3666 9.3 122919.5 -1234.2  
3667 9.5 122940.0 -1235.5  
3668 9.1 122955.2 -1202.7  
3669 9.2 123055.2 -1214.4  
3670 9.7 123122.1 -1232.4  
3671 9.0 123226.2 -1205.2  
3672 9.2 123227.1 -1209.6  
3673 8.9 123317.4 -1235.1  
3674 10. 123324.2 -1214.5

3675 9.8 123343.0 -1213.0  
3676 5.3 123344.7 -1213.1  
3677 9.2 123414.2 -1205.0  
3678 9.0 123454.1 -1214.1  
3679 8.9 123455.8 -1244.1  
3680 9.6 123514.8 -1227.4  
3681 7.8 123522.3 -1250.1  
3682 9.4 123538.2 -1231.2  
3683 8.9 123541.1 -1215.7  
3684 9.3 123546.6 -1215.5

3685 7.0 123622.1 -1220.8  
3686 9.5 123638.3 -1241.2  
3687 8.7 123648.3 -1254.7  
3688 9.5 123648.9 -1229.7  
3689 9.5 123735.1 -1244.0  
3690 9.7 123744.8 -1239.7  
3691 9.4 123811.0 -1219.1  
3692 8.8 123851.7 -1236.2  
3693 9.8 123910.2 -1252.5  
3694 9.5 123927.5 -1205.6

3695 9.2 124014.4 -1224.9  
3696 8.4 124052.7 -1232.2  
3697 9.9 124057.6 -1251.7  
3698 9.4 124106.0 -1215.3  
3699 8.7 124115.7 -1235.5  
3700 8.8 124128.1 -1250.6  
3701 9.6 124152.5 -1201.5  
3702 9.4 124155.9 -1206.4  
3703 9.5 124156.4 -1220.5  
3704 9.1 124227.0 -1223.2

3705 8.6 124230.9 -1216.3  
3706 9.4 124253.4 -1206.2  
3707 7.3 124254.4 -1214.5  
3708 9.5 124316.1 -1239.1  
3709 8.0 124352.6 -1241.4  
3710 9.4 124442.4 -1240.5  
3711 9.1 124448.5 -1258.7  
3712 8.8 124532.4 -1230.9  
3713 10. 124542.5 -1207.0  
3714 8.3 124605.9 -1251.5

3715 8.0 124651.8 -1208.6  
3716 10. 124654.0 -1245.4  
3717 9.7 124701.8 -1244.9  
3718 9.7 124727.2 -1245.6  
3719 7.0 124731.5 -1240.1  
3720 9.4 124740.5 -1256.2  
3721 9.3 124805.6 -1246.8  
3722 8.7 124815.4 -1241.4  
3723 9.1 124817.5 -1210.6  
3724 9.6 124925.7 -1215.4

3725 9.8 124955.6 -1221.3  
3726 7.5 125001.2 -1201.4  
3727 9.5 125007.3 -1206.9  
3728 9.5 125008.8 -1234.4  
3729 8.0 125014.2 -1221.2  
3730 9.5 125108.9 -1221.2  
3731 9.4 125113.7 -1229.6  
3732 9.0 125157.1 -1215.2  
3733 9.4 125207.3 -1237.6  
3734 9.4 125300.8 -1254.5

3735 9.3 125309.2 -1229.4  
3736 9.4 125337.2 -1226.0  
3737 9.1 125408.3 -1252.8  
3738 8.9 125409.7 -1223.2  
3739 9.8 125420.5 -1209.3  
3740 9.5 125434.2 -1216.7  
3741 8.8 125448.7 -1204.7  
3742 9.2 125528.7 -1202.2  
3743 8.5 125545.9 -1212.0  
3744 9.4 125559.0 -1227.5

3745 8.9 125600.4 -1236.0  
3746 9.8 125631.4 -1207.7  
3747 9.0 125651.1 -1229.3  
3748 9.5 125723.5 -1238.8  
3749 9.4 125731.9 -1202.2  
3750 8.7 125734.4 -1200.0  
3751 8.5 125750.4 -1200.4  
3752 9.6 125811.4 -1215.8  
3753 9.4 125812.2 -1208.0  
3754 9.4 125818.8 -1223.5

3755 9.1 125834.9 -1258.5  
3756 9.5 125841.4 -1227.9  
3757 9.3 130002.8 -1249.3  
3758 10. 130007.2 -1222.8  
3759 9.6 130022.3 -1223.9  
3760 7.8 130028.7 -1220.8  
3761 9.4 130047.4 -1244.4  
3762 8.2 130120.3 -1240.2  
3763 9.4 130141.2 -1252.3  
3764 9.4 130152.4 -1226.1

3765 9.8 130201.8 -1246.4  
3766 9.3 130214.8 -1238.0  
3767 8.5 130234.8 -1218.7  
3768 9.5 130251.7 -1223.9  
3769 9.8 130318.7 -1213.0  
3770 9.9 130328.3 -1216.5  
3771 9.9 130330.8 -1216.2  
3772 8.3 130350.2 -1213.5  
3773 9.3 130412.7 -1241.1  
3774 9.5 130416.2 -1211.2

3775 8.5 130420.7 -1249.1  
3776 9.8 130432.0 -1226.4  
3777 9.3 130451.9 -1228.0  
3778 9.9 130516.1 -1206.7  
3779 7.3 130542.4 -1241.7  
3780 9.6 130605.9 -1218.8  
3781 9.4 130650.2 -1225.8  
3782 9.3 130704.6 -1216.1  
3783 9.8 130804.1 -1252.9  
3784 9.9 130859.0 -1212.6

3785 7.0 130919.7 -1223.8  
3786 9.5 130933.1 -1230.0  
3787 9.6 131050.5 -1211.4  
3788 9.4 131108.5 -1254.9  
3789 8.3 131110.7 -1225.8  
3790 9.4 131139.5 -1227.8  
3791 9.3 131141.5 -1206.3  
3792 9.8 131152.0 -1220.4  
3793 9.3 131153.0 -1206.1  
3794 9.2 131157.8 -1228.0

3795 8.7 131238.4 -1225.8  
3796 9.0 131249.5 -1203.5  
3797 9.5 131351.4 -1225.9  
3798 9.7 131439.3 -1234.8  
3799 9.1 131459.9 -1245.3  
3800 9.8 131503.0 -1202.1  
3801 9.5 131504.5 -1225.1  
3802 7.4 131504.9 -1225.6  
3803 9.8 131506.8 -1211.5  
3804 10. 131513.9 -1202.6

3805 9.4 131515.4 -1230.9  
3806 9.5 131537.9 -1204.6  
3807 9.1 131547.4 -1254.2  
3808 8.5 131559.9 -1253.3  
3809 10. 131636.4 -1210.0  
3810 9.3 131706.9 -1234.4  
3811 10. 131707.6 -1227.7  
3812 8.5 131731.3 -1233.8  
3813 9.8 131732.8 -1224.1  
3814 8.5 131840.4 -1218.0

3815 9.0 131901.3 -1216.3  
3816 9.3 131917.3 -1212.2  
3817 7.7 131925.2 -1233.4  
3818 9.0 131947.3 -1213.0  
3819 9.5 131949.8 -1225.2  
3820 9.0 132000.7 -1233.4  
3821 10. 132007.3 -1223.0  
3822 8.5 132019.2 -1249.4  
3823 9.7 132043.7 -1204.8  
3824 9.3 132207.2 -1255.6

3825 9.1 132236.1 -1236.0  
3826 9.3 132241.8 -1210.3  
3827 9.7 132243.5 -1200.7  
3828 9.3 132310.2 -1202.7  
3829 9.3 132328.2 -1207.6  
3830 6.8 132331.8 -1242.0  
3831 9.2 132353.4 -1232.9  
3832 8.7 132354.6 -1205.4  
3833 9.8 132432.7 -1225.0  
3834 9.7 132505.6 -1258.1

3835 8.6 132521.1 -1246.0  
3836 8.3 132525.5 -1226.7  
3837 9.4 132525.6 -1252.9  
3838 9.6 132633.3 -1216.8  
3839 9.2 132640.1 -1201.2  
3840 7.9 132646.8 -1235.8  
3841 8.8 132648.6 -1241.4  
3842 9.1 132650.0 -1242.0  
3843 5.7 132658.3 -1228.0  
3844 10. 132709.9 -1256.9

3845 9.8 132725.5 -1214.8  
3846 10. 132727.2 -1238.7  
3847 9.7 132750.9 -1225.6  
3848 8.3 132805.0 -1244.1  
3849 9.5 132831.3 -1203.7  
3850 8.8 132845.6 -1225.3  
3851 9.4 132850.6 -1200.6  
3852 9.3 132852.0 -1238.4  
3853 9.5 132904.1 -1247.4  
3854 9.5 132922.6 -1235.0

3855 9.5 132933.0 -1240.3  
3856 8.3 133044.9 -1249.1  
3857 9.9 133047.5 -1253.3  
3858 9.7 133102.4 -1249.4  
3859 10. 133103.0 -1216.4  
3860 10. 133131.1 -1220.8  
3861 9.2 133134.8 -1234.6  
3862 9.2 133200.9 -1230.5  
3863 9.7 133210.0 -1209.9  
3864 9.7 133218.9 -1254.4

3865 9.5 133219.1 -1256.8  
3866 8.8 133231.1 -1211.3  
3867 9.0 133250.2 -1211.9  
3868 9.4 133312.9 -1205.3  
3869 7.3 133316.4 -1202.6  
3870 8.8 133414.4 -1217.8  
3871 9.2 133418.9 -1205.4  
3872 9.4 133419.6 -1203.9  
3873 8.8 133443.7 -1249.6  
3874 9.3 133446.8 -1248.9

3875 9.5 133509.2 -1257.0  
3876 9.3 133514.4 -1221.3  
3877 9.2 133520.4 -1229.1  
3878 8.9 133608.8 -1224.7  
3879 9.1 133623.3 -1239.4  
3880 8.3 133629.3 -1205.5  
3881 8.8 133633.3 -1212.6  
3882 9.1 133650.4 -1229.9  
3883 9.8 133706.4 -1231.2  
3884 10. 133723.8 -1216.5

3885 9.8 133731.3 -1216.7  
3886 9.3 133755.8 -1216.5  
3887 8.7 133806.7 -1214.2  
3888 9.5 133809.8 -1203.8  
3889 9.8 133817.1 -1254.0  
3890 9.7 133832.8 -1246.1  
3891 9.4 133838.3 -1216.0  
3892 9.7 133842.2 -1203.0  
3893 10. 133852.8 -1200.0  
3894 9.5 133857.3 -1217.2

3895 10. 133900.1 -1256.8  
3896 9.7 133900.1 -1225.3  
3897 8.7 133920.2 -1223.1  
3898 8.7 133938.3 -1210.7  
3899 9.6 133947.7 -1233.3  
3900 9.4 133959.2 -1237.8  
3901 10. 134018.8 -1235.4  
3902 9.2 134035.2 -1249.2  
3903 9.9 134052.2 -1228.8  
3904 9.5 134152.1 -1227.1

3905 9.8 134159.6 -1239.8  
3906 9.8 134205.2 -1220.2  
3907 7.3 134236.7 -1223.0  
3908 9.5 134240.0 -1249.4  
3909 9.2 134305.1 -1235.4  
3910 7.0 134320.3 -1257.6  
3911 10. 134350.9 -1211.9  
3912 7.0 134351.2 -1217.6  
3913 9.8 134355.0 -1256.8  
3914 9.6 134433.8 -1244.2

3915 10. 134521.3 -1231.8  
3916 9.8 134521.7 -1211.7  
3917 10. 134550.4 -1259.9  
3918 9.3 134558.8 -1235.2  
3919 9.5 134628.3 -1257.3  
3920 9.8 134637.1 -1225.5  
3921 9.4 134811.5 -1242.1  
3922 10. 134817.5 -1231.6  
3923 9.7 134828.3 -1233.1  
3924 9.5 134841.6 -1258.2

-12 4014 14h08m

3925 9.0 134930.1 -1245.5  
3926 9.5 134934.4 -1254.1  
3927 10. 135001.3 -1251.0  
3928 10. 135021.3 -1249.7  
3929 9.5 135100.3 -1250.7  
3930 9.4 135113.2 -1257.5  
3931 9.5 135133.4 -1201.6  
3932 8.8 135220.1 -1200.1  
3933 8.0 135220.8 -1245.3  
3934 10. 135230.5 -1248.0

3935 9.2 135257.4 -1252.4  
3936 9.5 135301.5 -1250.7  
3937 10. 135308.2 -1228.1  
3938 9.4 135313.5 -1233.5  
3939 10. 135335.2 -1251.1  
3940 9.1 135336.6 -1212.1  
3941 9.6 135337.0 -1204.9  
3942 9.5 135349.0 -1211.4  
3943 10. 135354.3 -1245.8  
3944 9.4 135355.1 -1230.8

3945 9.6 135454.5 -1256.1  
3946 10. 135505.2 -1256.4  
3947 9.5 135510.3 -1201.0  
3948 9.6 135517.6 -1203.5  
3949 9.5 135552.0 -1223.8  
3950 8.7 135554.9 -1235.5  
3951 9.0 135555.5 -1219.1  
3952 7.8 135614.6 -1202.9  
3953 9.5 135659.8 -1245.9  
3954 9.9 135715.5 -1214.3

3955 9.3 135728.1 -1256.5  
3956 8.0 135805.5 -1200.2  
3957 9.3 135808.3 -1234.6  
3958 7.8 135810.0 -1222.6  
3959 9.9 135825.4 -1208.6  
3960 10. 135841.7 -1214.9  
3961 8.8 135823.9 -1221.4  
3962 9.8 135932.2 -1221.0  
3963 9.5 135951.1 -1247.6  
3964 10. 135956.9 -1259.2

3965 10. 140009.2 -1235.1  
3966 7.0 140015.4 -1214.1  
3967 8.8 140020.4 -1240.7  
3968 9.5 140028.9 -1205.7  
3969 9.1 140058.8 -1253.3  
3970 9.3 140100.6 -1254.9  
3971 9.7 140107.3 -1234.9  
3972 9.5 140125.8 -1228.1  
3973 10. 140143.0 -1255.7  
3974 9.5 140156.8 -1255.0

3975 10. 140200.8 -1255.8  
3976 10. 140205.0 -1234.8  
3977 9.4 140205.2 -1308.6  
3978 9.5 140211.7 -1209.0  
3979 9.5 140212.3 -1237.7  
3980 9.0 140221.8 -1240.0  
3981 10. 140226.2 -1234.8  
3982 9.7 140227.1 -1216.8  
3983 10. 140233.2 -1236.5  
3984 9.5 140238.3 -1228.4

3985 10. 140238.7 -1208.8  
3986 10. 140246.4 -1226.3  
3987 9.8 140257.4 -1201.5  
3988 10. 140300.5 -1208.4  
3989 10. 140301.2 -1229.4  
3990 9.5 140302.4 -1227.3  
3991 10. 140311.5 -1210.7  
3992 10. 140314.9 -1250.0  
3993 8.8 140320.2 -1237.2  
3994 9.9 140337.8 -1257.6

3995 9.4 140357.3 -1214.9  
3996 9.4 140418.8 -1204.3  
3997 9.1 140454.5 -1230.9  
3998 10. 140516.1 -1237.0  
3999 9.8 140530.2 -1246.1  
4000 10. 140544.3 -1223.1  
4001 8.5 140544.5 -1215.0  
4002 10. 140558.5 -1211.1  
4003 8.2 140558.7 -1239.5  
4004 10. 140620.3 -1221.4

4005 9.5 140621.1 -1242.5  
4006 10. 140644.5 -1210.2  
4007 9.4 140648.1 -1255.6  
4008 9.1 140701.2 -1212.9  
4009 9.4 140703.7 -1217.5  
4010 9.5 140738.6 -1239.1  
4011 9.5 140846.3 -1204.8  
4012 9.1 140852.6 -1238.2  
4013 9.5 140858.3 -1219.4  
4014 9.0 140858.5 -1249.9



|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 4015 10. 141001.1 -1229.1 | 4105 8.6 143019.0 -1226.0 | 4195 9.5 145654.7 -1213.5 | 4285 9.1 152703.2 -1220.3 |
| 4016 9.5 141014.8 -1250.5 | 4106 10. 143048.0 -1201.2 | 4196 9.1 145734.3 -1255.8 | 4286 7.7 152719.0 -1201.0 |
| 4017 9.8 141029.2 -1212.7 | 4107 9.0 143054.7 -1211.4 | 4197 9.5 145813.5 -1235.3 | 4287 9.0 152723.0 -1249.8 |
| 4018 4.8 141116.5 -1241.7 | 4108 9.8 143103.5 -1257.0 | 4198 7.0 145837.6 -1220.4 | 4288 9.6 152732.5 -1257.6 |
| 4019 8.7 141121.0 -1245.4 | 4109 10. 143229.2 -1251.5 | 4199 9.5 145853.5 -1251.0 | 4289 9.7 152734.5 -1206.6 |
| 4020 9.5 141132.5 -1251.2 | 4110 9.7 143241.2 -1226.7 | 4200 9.5 145855.8 -1236.0 | 4290 8.6 152747.2 -1222.3 |
| 4021 9.3 141204.0 -1234.9 | 4111 9.6 143256.6 -1227.6 | 4201 9.4 145856.9 -1259.5 | 4291 9.9 152752.9 -1256.5 |
| 4022 9.8 141219.1 -1225.4 | 4112 9.5 143301.1 -1210.8 | 4202 9.2 145906.8 -1222.3 | 4292 9.8 152803.1 -1252.5 |
| 4023 9.5 141242.4 -1247.6 | 4113 10. 143314.7 -1210.7 | 4203 10. 145939.9 -1232.0 | 4293 9.9 152804.6 -1229.4 |
| 4024 10. 141310.9 -1235.1 | 4114 8.3 143339.7 -1205.7 | 4204 8.2 150024.0 -1253.2 | 4294 9.7 152839.3 -1251.3 |
| 4025 9.6 141315.0 -1215.7 | 4115 9.9 143349.1 -1220.2 | 4205 8.5 150051.6 -1238.7 | 4295 8.0 152914.9 -1253.6 |
| 4026 10. 141343.5 -1220.9 | 4116 9.3 143520.4 -1245.5 | 4206 8.3 150156.7 -1225.2 | 4296 10. 152919.5 -1229.4 |
| 4027 9.0 141348.4 -1250.1 | 4117 9.3 143536.6 -1204.8 | 4207 9.4 150157.5 -1234.2 | 4297 9.6 152926.6 -1214.2 |
| 4028 9.0 141400.0 -1222.6 | 4118 10. 143540.2 -1252.5 | 4208 10. 150200.2 -1201.3 | 4298 8.8 152944.5 -1237.3 |
| 4029 8.7 141400.8 -1231.3 | 4119 9.5 143545.4 -1244.4 | 4209 10. 150205.5 -1254.4 | 4299 9.5 153010.1 -1230.2 |
| 4030 9.8 141446.5 -1214.6 | 4120 9.2 143545.6 -1217.2 | 4210 9.2 150221.0 -1206.5 | 4300 9.4 153013.6 -1232.4 |
| 4031 10. 141513.0 -1236.6 | 4121 8.8 143553.5 -1230.3 | 4211 8.5 150223.5 -1245.0 | 4301 9.4 153025.9 -1252.8 |
| 4032 9.4 141544.5 -1218.5 | 4122 8.9 143559.0 -1224.8 | 4212 10. 150255.6 -1240.4 | 4302 9.2 153050.6 -1231.9 |
| 4033 9.5 141545.1 -1202.5 | 4123 9.0 143644.5 -1233.2 | 4213 9.5 150258.7 -1200.0 | 4303 9.4 153107.4 -1248.0 |
| 4034 9.1 141549.6 -1215.4 | 4124 9.5 143648.3 -1236.4 | 4214 7.5 150316.3 -1230.2 | 4304 9.5 153128.1 -1230.0 |
| 4035 9.7 141551.2 -1227.7 | 4125 8.9 143652.8 -1227.6 | 4215 9.0 150324.3 -1219.9 | 4305 9.6 153144.0 -1229.1 |
| 4036 8.2 141552.1 -1219.2 | 4126 9.5 143658.1 -1224.5 | 4216 8.8 150405.9 -1242.3 | 4306 9.3 153146.9 -1220.1 |
| 4037 8.0 141559.0 -1216.5 | 4127 10. 143704.3 -1236.0 | 4217 9.5 150439.4 -1207.9 | 4307 10. 153222.9 -1243.4 |
| 4038 10. 141610.1 -1215.5 | 4128 8.5 143722.0 -1221.7 | 4218 9.1 150545.8 -1257.4 | 4308 9.5 153226.3 -1224.7 |
| 4039 9.7 141621.1 -1235.9 | 4129 9.4 143823.5 -1221.2 | 4219 9.2 150559.8 -1214.0 | 4309 8.8 153229.2 -1227.9 |
| 4040 9.5 141653.0 -1222.7 | 4130 9.3 143849.8 -1226.5 | 4220 9.3 150622.9 -1216.0 | 4310 8.8 153253.4 -1249.0 |
| 4041 9.6 141722.5 -1206.7 | 4131 9.7 143933.9 -1200.7 | 4221 9.4 150706.4 -1202.8 | 4311 9.5 153264.0 -1247.5 |
| 4042 6.7 141726.4 -1242.1 | 4132 9.4 143945.1 -1208.0 | 4222 9.7 150720.3 -1231.5 | 4312 9.3 153226.0 -1213.6 |
| 4043 9.4 141729.6 -1251.7 | 4133 8.3 143945.4 -1219.2 | 4223 9.3 150802.5 -1218.5 | 4313 10. 153329.0 -1224.6 |
| 4044 9.4 141729.9 -1226.1 | 4134 6.0 144001.0 -1213.6 | 4224 8.9 150808.2 -1222.0 | 4314 9.4 153339.4 -1242.5 |
| 4045 9.5 141736.4 -1238.9 | 4135 9.5 144013.8 -1249.8 | 4225 7.8 150833.3 -1240.8 | 4315 8.5 153353.5 -1217.3 |
| 4046 9.7 141740.5 -1203.8 | 4136 9.5 144051.5 -1208.2 | 4226 9.5 150839.8 -1214.5 | 4316 9.2 153402.8 -1259.0 |
| 4047 9.0 141744.5 -1208.2 | 4137 7.8 144054.4 -1236.4 | 4227 7.0 150850.6 -1229.9 | 4317 9.8 153405.9 -1229.7 |
| 4048 10. 141830.5 -1200.9 | 4138 8.6 144059.5 -1210.5 | 4228 9.8 150916.3 -1254.5 | 4318 9.1 153452.5 -1234.9 |
| 4049 9.8 141845.5 -1259.8 | 4139 9.7 144102.0 -1211.6 | 4229 9.8 150942.9 -1214.5 | 4319 9.0 153505.4 -1201.4 |
| 4050 9.0 141903.7 -1214.7 | 4140 9.5 144125.8 -1241.4 | 4230 9.8 151023.5 -1215.4 | 4320 6.7 153506.0 -1225.2 |
| 4051 10. 141912.8 -1239.9 | 4141 8.0 144204.5 -1254.1 | 4231 10. 151025.1 -1208.5 | 4321 9.0 153526.9 -1239.9 |
| 4052 9.5 141922.9 -1208.0 | 4142 9.3 144205.0 -1209.0 | 4232 8.2 151025.7 -1223.4 | 4322 9.2 153542.9 -1215.0 |
| 4053 8.8 141927.6 -1247.5 | 4143 9.9 144211.9 -1216.8 | 4233 9.6 151059.2 -1231.6 | 4323 9.5 153543.7 -1203.2 |
| 4054 9.0 141950.8 -1244.4 | 4144 9.4 144251.9 -1234.4 | 4234 9.6 151114.5 -1255.6 | 4324 9.5 153532.3 -1256.6 |
| 4055 6.8 141955.1 -1242.0 | 4145 9.0 144259.3 -1244.6 | 4235 9.5 151132.5 -1213.0 | 4325 9.7 153645.3 -1233.0 |
| 4056 9.1 142018.2 -1225.1 | 4146 9.5 144307.2 -1252.8 | 4236 9.4 151138.3 -1216.8 | 4326 9.6 153651.0 -1232.8 |
| 4057 9.9 142027.9 -1216.8 | 4147 9.9 144340.2 -1245.6 | 4237 9.1 151145.3 -1247.5 | 4327 9.6 153728.7 -1229.6 |
| 4058 9.8 142028.6 -1222.4 | 4148 10. 144354.4 -1229.5 | 4238 8.0 151210.8 -1239.7 | 4328 9.7 153803.9 -1254.3 |
| 4059 9.8 142048.2 -1244.9 | 4149 10. 144358.8 -1235.1 | 4239 9.6 151212.7 -1256.5 | 4329 9.1 153815.4 -1223.6 |
| 4060 9.4 142058.7 -1257.0 | 4150 9.5 144402.4 -1223.3 | 4240 9.7 151233.4 -1211.9 | 4330 9.6 153816.2 -1258.6 |
| 4061 9.5 142059.0 -1208.7 | 4151 9.3 144411.0 -1208.8 | 4241 9.2 151234.0 -1222.1 | 4331 9.4 153825.9 -1232.2 |
| 4062 9.4 142124.8 -1219.3 | 4152 8.0 144417.7 -1254.1 | 4242 9.8 151359.2 -1259.3 | 4332 9.5 153846.9 -1234.8 |
| 4063 9.2 142140.9 -1201.4 | 4153 10. 144418.7 -1245.2 | 4243 9.2 151359.3 -1209.5 | 4333 9.9 153901.4 -1229.4 |
| 4064 9.1 142212.8 -1232.6 | 4154 9.4 144424.4 -1212.6 | 4244 9.2 151435.8 -1207.3 | 4334 10. 153903.3 -1252.9 |
| 4065 10. 142219.0 -1228.5 | 4155 9.5 144433.4 -1207.9 | 4245 9.3 151531.8 -1210.5 | 4335 9.6 153932.6 -1223.7 |
| 4066 9.8 142220.6 -1243.7 | 4156 7.8 144500.9 -1202.4 | 4246 9.0 151549.3 -1232.3 | 4336 9.0 153948.9 -1217.0 |
| 4067 9.5 142239.4 -1216.9 | 4157 9.0 144507.4 -1224.0 | 4247 9.5 151628.2 -1208.1 | 4337 9.1 153954.3 -1214.5 |
| 4068 9.0 142253.8 -1257.7 | 4158 9.3 144528.7 -1251.9 | 4248 9.8 151630.7 -1227.6 | 4338 9.3 154009.4 -1234.4 |
| 4069 9.3 142257.2 -1245.9 | 4159 9.9 144534.9 -1219.6 | 4249 9.3 151631.1 -1220.8 | 4339 9.5 154043.3 -1237.2 |
| 4070 9.4 142301.9 -1227.0 | 4160 9.9 144621.3 -1225.1 | 4250 8.5 151631.6 -1222.7 | 4340 9.8 154142.1 -1207.7 |
| 4071 9.8 142303.9 -1201.2 | 4161 10. 144624.2 -1229.5 | 4251 9.5 151704.7 -1220.6 | 4341 9.9 154201.1 -1251.2 |
| 4072 8.8 142313.8 -1249.3 | 4162 10. 144725.7 -1249.3 | 4252 9.5 151735.6 -1251.4 | 4342 8.0 154223.9 -1212.0 |
| 4073 9.0 142333.3 -1258.0 | 4163 9.5 144738.8 -1221.0 | 4253 8.3 151741.6 -1221.4 | 4343 9.9 154229.2 -1249.3 |
| 4074 7.8 142355.1 -1222.7 | 4164 8.9 144747.4 -1203.3 | 4254 9.8 151813.1 -1205.6 | 4344 9.3 154225.3 -1238.6 |
| 4075 9.4 142356.2 -1258.0 | 4165 8.5 144752.2 -1226.8 | 4255 10. 151818.6 -1250.4 | 4345 9.3 154236.2 -1243.7 |
| 4076 9.8 142405.8 -1222.5 | 4166 9.8 144757.7 -1240.4 | 4256 9.4 151820.0 -1258.0 | 4346 8.7 154236.2 -1257.0 |
| 4077 8.4 142406.1 -1204.6 | 4167 9.5 144809.2 -1242.5 | 4257 9.6 151838.2 -1202.0 | 4347 9.8 154262.7 -1216.7 |
| 4078 10. 142416.2 -1252.9 | 4168 9.7 144813.7 -1239.9 | 4258 9.6 151846.8 -1222.6 | 4348 9.6 154300.2 -1213.5 |
| 4079 8.5 142440.8 -1221.6 | 4169 9.0 144830.9 -1241.5 | 4259 9.3 151936.9 -1220.8 | 4349 10. 154300.9 -1220.3 |
| 4080 9.5 142449.3 -1207.5 | 4170 8.9 144918.8 -1220.5 | 4260 9.2 152024.1 -1235.6 | 4350 8.2 154319.0 -1211.0 |
| 4081 9.2 142451.7 -1250.0 | 4171 10. 144923.1 -1249.1 | 4261 9.8 152044.7 -1214.2 | 4351 9.8 154332.0 -1255.8 |
| 4082 9.5 142453.1 -1208.7 | 4172 9.9 144930.3 -1211.4 | 4262 8.6 152055.2 -1213.2 | 4352 9.1 154353.7 -1252.6 |
| 4083 9.9 142502.2 -1243.6 | 4173 7.5 144942.4 -1202.1 | 4263 9.6 152128.1 -1225.8 | 4353 7.3 154355.3 -1205.4 |
| 4084 9.0 142543.1 -1253.8 | 4174 9.3 144945.8 -1215.7 | 4264 9.5 152158.1 -1205.4 | 4354 10. 154410.7 -1256.2 |
| 4085 9.6 142611.2 -1249.8 | 4175 9.3 144947.0 -1243.1 | 4265 7.8 152201.0 -1216.4 | 4355 9.9 154440.2 -1212.4 |
| 4086 9.0 142614.7 -1236.1 | 4176 9.6 144954.1 -1247.8 | 4266 9.8 152229.0 -1255.5 | 4356 9.5 154445.2 -1222.6 |
| 4087 8.7 142615.9 -1250.4 | 4177 9.8 145020.6 -1239.4 | 4267 8.3 152235.5 -1214.1 | 4357 9.2 154454.8 -1222.5 |
| 4088 9.8 142616.8 -1203.5 | 4178 7.8 145047.3 -1211.0 | 4268 7.5 152320.7 -1229.3 | 4358 9.9 154455.3 -1248.0 |
| 4089 9.4 142643.8 -1216.2 | 4179 9.9 145051.9 -1249.8 | 4269 9.5 152331.0 -1232.8 | 4359 9.4 154453.0 -1212.7 |
| 4090 9.3 142710.3 -1217.0 | 4180 10. 145113.8 -1251.6 | 4270 9.8 152338.1 -1208.8 | 4360 9.2 154458.7 -1245.0 |
| 4091 8.5 142716.7 -1206.0 | 4181 9.7 145129.2 -1242.8 | 4271 9.2 152354.8 -1218.5 | 4361 10. 154557.1 -1254.7 |
| 4092 9.0 142745.2 -1248.8 | 4182 9.6 145132.0 -1216.5 | 4272 9.1 152413.5 -1252.1 | 4362 8.5 154609.4 -1221.6 |
| 4093 9.7 142756.0 -1232.2 | 4183 10. 145203.2 -1247.3 | 4273 9.5 152421.1 -1213.4 | 4363 9.2 154651.3 -1258.9 |
| 4094 9.8 142757.7 -1241.0 | 4184 9.7 145205.7 -1224.3 | 4274 9.3 152428.3 -1245.2 | 4364 9.8 154651.8 -1200.2 |
| 4095 9.3 142842.8 -1208.9 | 4185 9.4 145219.8 -1257.2 | 4275 9.8 152445.0 -1211.2 | 4365 9.9 154651.9 -1227.1 |
| 4096 9.4 142859.2 -1217.0 | 4186 9.4 145250.0 -1256.1 | 4276 9.4 152455.6 -1200.4 | 4366 9.2 154713.1 -1201.3 |
| 4097 8.9 142914.0 -1231.1 | 4187 8.5 145331.9 -1205.8 | 4277 9.2 152505.0 -1225.9 | 4367 9.4 154714.6 -1257.5 |
| 4098 9.3 142915.2 -1213.2 | 4188 8.9 145336.5 -1245.2 | 4278 7.2 152514.7 -1230.9 | 4368 9.3 154723.7 -1246.5 |
| 4099 9.8 142920.8 -1201.3 | 4189 9.6 145407.0 -1232.2 | 4279 8.5 152529.5 -1217.7 | 4369 9.8 154736.6 -1258.3 |
| 4100 9.0 142931.7 -1203.1 | 4190 10. 145411.7 -1250.7 | 4280 9.3 152625.1 -1235.1 | 4370 8.8 154811.8 -1232.5 |
| 4101 9.1 142959.3 -1230.2 | 4191 10. 145450.5 -1239.9 | 4281 9.3 152629.0 -1215.6 | 4371 9.3 154819.6 -1251.6 |
| 4102 9.1 143008.6 -1238.4 | 4192 7.3 145511.6 -1217.3 | 4282 9.8 152655.6 -1213.1 | 4372 9.2 154836.3 -1229.8 |
| 4103 9.9 143012.1 -1225.1 | 4193 9.2 145531.2 -1241.8 | 4283 9.3 152700.7 -1232.0 | 4373 9.1 154852.2 -1219.4 |
| 4104 7.0 143016.6 -1216.5 | 4194 9.0 145631.1 -1219.0 | 4284 9.1 152700.7 -1221.2 | 4374 9.0 154853.7 -1232.3 |



-12 4375 15h48m

4375 9.3 154856.6 -1259.5  
4376 10. 154900.8 -1248.9  
4377 10. 154913.2 -1258.8  
4378 9.3 154924.8 -1216.8  
4379 9.6 154939.8 -1252.4  
4380 9.3 154941.5 -1202.3  
4381 9.6 155000.2 -1239.5  
4382 9.5 155009.4 -1237.2  
4383 9.8 155026.7 -1213.2  
4384 8.4 155053.6 -1244.9

4385 9.7 155103.6 -1256.5  
4386 10. 155106.4 -1245.0  
4387 9.2 155123.6 -1234.7  
4388 9.2 155157.8 -1203.5  
4389 9.5 155208.5 -1248.0  
4390 9.8 155214.2 -1202.8  
4391 8.4 155217.1 -1242.2  
4392 10. 155231.0 -1251.4  
4393 8.7 155257.8 -1227.5  
4394 9.3 155311.1 -1243.6

4395 9.0 155324.6 -1242.3  
4396 9.8 155401.2 -1231.5  
4397 9.4 155414.6 -1236.0  
4398 9.3 155434.5 -1206.1  
4399 9.3 155446.4 -1221.4  
4400 9.3 155447.1 -1230.2  
4401 9.5 155505.2 -1207.3  
4402 10. 155542.6 -1240.0  
4403 9.4 155547.2 -1201.9  
4404 9.6 155612.6 -1234.5

4405 9.5 155616.1 -1233.6  
4406 8.8 155619.5 -1257.7  
4407 8.8 155631.7 -1258.2  
4408 8.9 155632.0 -1248.5  
4409 9.5 155728.4 -1252.1  
4410 9.7 155732.9 -1226.9  
4411 10. 155735.0 -1239.2  
4412 8.8 155735.3 -1219.2  
4413 9.6 155740.1 -1203.2  
4414 9.8 155831.0 -1229.3

4415 9.5 155833.3 -1206.0  
4416 8.6 155833.5 -1228.0  
4417 9.4 155836.4 -1249.5  
4418 9.4 155851.7 -1235.4  
4419 9.5 155913.5 -1239.2  
4420 8.0 155916.4 -1244.4  
4421 9.5 155917.4 -1256.9  
4422 9.1 155918.3 -1228.3  
4423 9.8 155925.0 -1228.0  
4424 8.2 155929.2 -1233.3

4425 5.8 155933.6 -1220.7  
4426 9.9 155957.1 -1208.8  
4427 8.5 160000.5 -1236.8  
4428 8.8 160017.0 -1238.4  
4429 8.5 160020.4 -1244.2  
4430 9.8 160023.6 -1217.6  
4431 9.1 160035.9 -1221.4  
4432 9.4 160037.5 -1235.4  
4433 9.5 160042.6 -1214.0  
4434 9.2 160105.6 -1248.5

4435 9.9 160110.5 -1252.2  
4436 10. 160111.8 -1235.4  
4437 7.1 160118.5 -1239.9  
4438 10. 160129.4 -1251.6  
4439 9.8 160137.6 -1241.4  
4440 9.4 160148.5 -1239.7  
4441 7.3 160150.2 -1230.3  
4442 9.3 160154.6 -1211.9  
4443 10. 160309.9 -1226.6  
4444 9.7 160320.6 -1203.6

4445 8.6 160327.0 -1204.8  
4446 9.5 160403.5 -1211.0  
4447 9.3 160408.7 -1235.1  
4448 9.0 160450.3 -1248.8  
4449 9.8 160455.1 -1240.5  
4450 9.4 160506.1 -1242.7  
4451 9.6 160506.6 -1220.1  
4452 9.6 160530.3 -1236.2  
4453 8.9 160532.6 -1217.3  
4454 7.7 160533.2 -1239.4

4455 10. 160611.3 -1233.7  
4456 9.4 160616.6 -1218.5  
4457 9.8 160622.0 -1226.7  
4458 9.5 160623.8 -1219.5  
4459 10. 160632.3 -1251.7  
4460 8.3 160702.3 -1251.5  
4461 10. 160706.2 -1211.8  
4462 8.6 160708.5 -1222.8  
4463 7.5 160729.8 -1218.3  
4464 9.6 160815.8 -1251.1

4465 9.9 160818.0 -1205.3  
4466 9.5 160822.4 -1244.2  
4467 9.5 160824.6 -1205.2  
4468 9.5 160836.8 -1212.7  
4469 9.0 160841.3 -1210.4  
4470 9.5 160901.2 -1247.5  
4471 9.1 160948.3 -1204.6  
4472 9.5 160957.2 -1213.9  
4473 8.9 161007.4 -1233.8  
4474 10. 161010.5 -1248.2

4475 10. 161036.7 -1256.9  
4476 9.2 161113.8 -1241.1  
4477 9.8 161116.2 -1227.0  
4478 9.8 161205.1 -1205.5  
4479 9.0 161215.4 -1227.0  
4480 6.5 161223.1 -1233.2  
4481 8.9 161243.2 -1220.7  
4482 9.4 161244.0 -1215.6  
4483 9.2 161254.5 -1228.0  
4484 9.7 161307.7 -1200.6

4485 8.2 161315.8 -1245.4  
4486 8.9 161323.1 -1234.6  
4487 8.8 161324.6 -1200.9  
4488 9.1 161340.3 -1213.4  
4489 9.5 161344.8 -1202.9  
4490 9.0 161353.0 -1234.7  
4491 9.0 161353.7 -1223.6  
4492 9.5 161356.8 -1202.4  
4493 8.5 161429.1 -1204.7  
4494 8.5 161441.2 -1251.2

4495 9.4 161515.6 -1238.7  
4496 9.8 161533.8 -1200.7  
4497 9.3 161601.7 -1242.3  
4498 9.5 161611.0 -1231.4  
4499 9.3 161646.7 -1248.8  
4500 10. 161646.8 -1227.6  
4501 8.8 161713.4 -1250.4  
4502 9.8 161713.8 -1229.6  
4503 9.7 161722.3 -1235.7  
4504 9.0 161736.6 -1220.2

4505 10. 161737.6 -1222.2  
4506 9.4 161752.1 -1210.7  
4507 9.4 161800.1 -1213.0  
4508 9.0 161827.1 -1215.9  
4509 9.6 161831.8 -1230.8  
4510 30.0 161840.2 -1205.5  
4511 9.5 161917.4 -1250.2  
4512 9.5 161942.7 -1235.5  
4513 9.5 161948.7 -1219.4  
4514 10. 161950.5 -1210.1

4515 8.6 161957.2 -1246.0  
4516 9.8 162013.7 -1208.3  
4517 9.4 162020.8 -1201.3  
4518 9.8 162105.0 -1259.3  
4519 9.6 162125.7 -1231.6  
4520 9.5 162135.5 -1259.5  
4521 9.7 162209.6 -1212.3  
4522 9.6 162213.6 -1203.1  
4523 9.5 162213.9 -1218.1  
4524 9.8 162233.5 -1217.6

4525 8.9 162235.6 -1247.5  
4526 9.5 162241.6 -1253.5  
4527 8.3 162244.1 -1248.7  
4528 9.3 162315.0 -1211.9  
4529 9.8 162325.2 -1229.5  
4530 9.3 162328.8 -1256.0  
4531 10. 162337.8 -1256.4  
4532 9.2 162401.5 -1256.9  
4533 6.8 162404.6 -1206.3  
4534 9.3 162407.8 -1243.2

4535 9.1 162418.1 -1208.6  
4536 9.1 162424.0 -1226.8  
4537 20.0 162424.1 -1244.6  
4538 10. 162432.4 -1235.2  
4539 10. 162432.6 -1239.3  
4540 9.5 162434.8 -1212.0  
4541 9.3 162434.8 -1222.5  
4542 9.5 162456.5 -1216.0  
4543 7.3 162506.5 -1228.8  
4544 9.9 162514.4 -1258.0

4545 9.8 162518.3 -1232.6  
4546 7.0 162526.0 -1214.9  
4547 7.7 162531.7 -1230.3  
4548 9.8 162554.6 -1235.7  
4549 10. 162620.9 -1258.5  
4550 9.4 162726.4 -1259.2  
4551 9.2 162740.7 -1252.3  
4552 9.5 162742.4 -1249.4  
4553 9.3 162805.0 -1216.2  
4554 9.8 162805.0 -1247.4

4555 9.0 162816.5 -1237.6  
4556 9.3 162820.0 -1216.2  
4557 8.4 162914.6 -1228.3  
4558 9.5 162919.2 -1244.2  
4559 9.5 162926.4 -1200.0  
4560 9.7 162931.1 -1257.9  
4561 9.5 162958.9 -1207.4  
4562 9.0 163022.2 -1202.8  
4563 8.0 163106.9 -1202.3  
4564 9.3 163112.0 -1226.7

4565 9.0 163159.1 -1258.9  
4566 9.6 163206.9 -1233.0  
4567 8.5 163219.6 -1228.6  
4568 9.7 163222.3 -1224.5  
4569 9.7 163230.2 -1215.6  
4570 9.8 163238.1 -1232.3  
4571 9.0 163257.0 -1204.5  
4572 9.8 163314.7 -1252.0  
4573 9.5 163321.6 -1213.3  
4574 9.1 163358.0 -1209.6

4575 9.6 163404.3 -1229.8  
4576 9.2 163413.9 -1224.0  
4577 10. 163435.9 -1238.0  
4578 9.7 163448.2 -1237.1  
4579 9.0 163452.9 -1216.6  
4580 9.8 163534.3 -1208.8  
4581 9.5 163537.2 -1222.3  
4582 9.0 163622.5 -1208.3  
4583 8.2 163623.8 -1200.1  
4584 9.6 163648.9 -1217.9

4585 9.8 163653.4 -1242.3  
4586 9.0 163655.3 -1212.8  
4587 8.5 163706.1 -1213.1  
4588 5.8 163707.2 -1250.0  
4589 10. 163716.7 -1218.7  
4590 9.9 163741.6 -1239.5  
4591 8.4 163742.4 -1206.2  
4592 9.7 163754.5 -1221.5  
4593 9.9 163806.3 -1234.7  
4594 9.4 163938.8 -1256.1

4595 9.6 164122.1 -1257.7  
4596 9.4 164144.1 -1240.7  
4597 8.5 164151.7 -1249.2  
4598 7.1 164200.1 -1207.7  
4599 9.0 164206.8 -1205.1  
4600 9.8 164231.9 -1241.2  
4601 9.3 164258.5 -1204.3  
4602 9.8 164300.1 -1216.2  
4603 9.4 164311.9 -1211.3  
4604 8.1 164318.5 -1226.9

4605 9.5 164339.7 -1244.2  
4606 9.8 164433.5 -1229.5  
4607 9.8 164509.1 -1250.4  
4608 10. 164510.2 -1238.2  
4609 9.5 164515.7 -1220.1  
4610 9.3 164537.6 -1221.1  
4611 8.9 164545.8 -1247.7  
4612 9.1 164551.1 -1206.5  
4613 9.6 164624.3 -1232.0  
4614 8.7 164624.6 -1253.6

4615 9.5 164625.3 -1225.1  
4616 9.4 164646.2 -1212.7  
4617 9.0 164739.1 -1219.4  
4618 9.5 164746.7 -1258.1  
4619 9.8 164800.1 -1216.8  
4620 9.3 164830.8 -1232.4  
4621 9.5 164833.8 -1232.5  
4622 9.0 164849.6 -1258.0  
4623 8.0 164922.3 -1200.0  
4624 9.4 164922.4 -1219.6

4625 8.7 164923.8 -1227.3  
4626 9.5 164944.0 -1204.3  
4627 8.9 165011.1 -1224.2  
4628 9.2 165012.6 -1248.7  
4629 9.4 165053.5 -1243.2  
4630 10. 165103.7 -1231.5  
4631 8.0 165107.9 -1258.3  
4632 10. 165119.0 -1247.3  
4633 40.0 165122.5 -1240.0  
4634 9.0 165144.1 -1247.2

4635 9.4 165152.7 -1232.1  
4636 9.4 165156.5 -1225.8  
4637 9.6 165221.8 -1202.5  
4638 9.4 165232.3 -1218.2  
4639 9.3 165244.5 -1209.8  
4640 9.0 165308.4 -1247.3  
4641 8.7 165308.4 -1200.0  
4642 9.9 165325.5 -1245.2  
4643 9.0 165402.0 -1214.2  
4644 9.5 165426.6 -1216.9

-12 4734 17h14m

4645 9.5 165434.5 -1251.1  
4646 8.3 165436.4 -1220.2  
4647 9.6 165447.5 -1230.1  
4648 9.6 165513.6 -1247.2  
4649 9.5 165518.1 -1225.1  
4650 9.3 165518.3 -1212.1  
4651 8.1 165538.7 -1239.1  
4652 9.2 165559.9 -1204.0  
4653 9.8 165620.0 -1215.0  
4654 9.3 165620.4 -1252.1

4655 6.8 165623.2 -1227.9  
4656 9.7 165630.5 -1233.4  
4657 9.8 165652.1 -1208.5  
4658 9.5 165706.6 -1207.6  
4659 9.5 165712.1 -1212.1  
4660 9.8 165726.6 -1214.4  
4661 9.0 165813.0 -1217.5  
4662 7.3 165814.1 -1212.6  
4663 9.3 165832.4 -1243.4  
4664 9.0 165857.3 -1250.6

4665 8.4 165921.8 -1232.6  
4666 9.3 165925.6 -1256.1  
4667 9.9 165929.2 -1257.1  
4668 9.0 165932.1 -1209.0  
4669 9.5 165959.5 -1209.4  
4670 7.5 170037.9 -1255.8  
4671 9.7 170057.3 -1203.7  
4672 9.4 170103.3 -1228.4  
4673 9.5 170124.0 -1210.8  
4674 9.3 170132.1 -1211.5

4675 9.6 170133.8 -1222.2  
4676 9.0 170137.4 -1243.2  
4677 9.0 170142.1 -1206.8  
4678 6.2 170235.9 -1230.6  
4679 9.5 170243.6 -1203.7  
4680 9.1 170351.5 -1211.0  
4681 9.1 170402.5 -1207.3  
4682 9.3 170404.4 -1223.8  
4683 9.4 170410.7 -1211.4  
4684 9.3 170428.1 -1232.8

4685 8.7 170447.8 -1235.5  
4686 7.8 170506.3 -1233.2  
4687 9.5 170508.2 -1241.7  
4688 9.0 170509.5 -1244.9  
4689 9.4 170537.7 -1257.5  
4690 9.8 170554.6 -1244.0  
4691 9.8 170601.6 -1207.8  
4692 9.2 170607.9 -1216.2  
4693 9.5 170619.6 -1204.1  
4694 9.2 170620.5 -1211.0

4695 9.8 170628.1 -1238.5  
4696 9.1 170651.9 -1217.8  
4697 8.3 170738.2 -1232.2  
4698 9.8 170812.7 -1237.8  
4699 9.2 170813.1 -1200.7  
4700 9.1 170813.8 -1246.8  
4701 9.7 170815.3 -1208.5  
4702 9.8 170838.4 -1211.9  
4703 9.5 170849.0 -1228.1  
4704 7.0 170850.5 -1256.4

4705 9.3 170854.0 -1211.3  
4706 9.5 170918.0 -1209.1  
4707 7.0 170944.3 -1209.1  
4708 9.8 171009.1 -1201.8  
4709 8.7 171017.5 -1207.1  
4710 9.1 171028.9 -1253.5  
4711 7.9 171030.6 -1226.9  
4712 9.0 171039.2 -1223.1  
4713 8.7 171057.0 -1219.6  
4714 9.8 171112.8 -1247.5

4715 9.8 171128.6 -1229.8  
4716 9.3 171148.8 -1248.2  
4717 9.8 171157.2 -1250.3  
4718 9.1 171201.7 -1259.8  
4719 9.4 171205.5 -1256.8  
4720 9.3 171208.2 -1202.1  
4721 8.7 171213.4 -1247.4  
4722 4.5 171239.8 -1241.4  
4723 9.6 171240.5 -1219.3  
4724 9.0 171241.3 -1241.7

4725 7.8 171245.0 -1216.4  
4726 7.8 171249.9 -1256.4  
4727 8.7 171253.3 -1230.2  
4728 9.0 171318.1 -1248.4  
4729 9.8 171321.7 -1229.0  
4730 9.4 171335.6 -1244.5  
4731 9.7 171345.4 -1201.3  
4732 9.7 171358.9 -1229.9  
4733 9.5 171419.5 -1256.3  
4734 8.2 171435.5 -1235.8



4735 8.9 171442.4 -1215.1  
4736 9.1 171457.7 -1221.4  
4737 9.4 171514.0 -1222.4  
4738 9.8 171521.1 -1245.5  
4739 9.9 171522.4 -1237.1  
4740 9.3 171532.2 -1237.1  
4741 9.5 171627.0 -1212.1  
4742 9.8 171652.1 -1205.7  
4743 9.5 171709.5 -1252.9  
4744 9.1 171713.5 -1227.2

4745 9.0 171725.8 -1213.2  
4746 9.3 171746.0 -1210.1  
4747 9.5 171749.0 -1211.2  
4748 9.4 171813.9 -1227.6  
4749 9.9 171846.5 -1252.2  
4750 6.3 171854.4 -1222.5  
4751 10. 171958.7 -1239.8  
4752 9.3 171902.7 -1234.5  
4753 9.2 171962.8 -1247.8  
4754 8.6 171983.2 -1201.2

4755 9.2 171911.4 -1216.5  
4756 9.9 171920.6 -1237.7  
4757 7.9 171941.2 -1203.7  
4758 9.5 172022.5 -1207.6  
4759 8.5 172035.2 -1211.5  
4760 9.5 172128.8 -1211.7  
4761 10. 172137.0 -1249.3  
4762 9.5 172145.7 -1242.9  
4763 9.7 172200.1 -1242.6  
4764 9.8 172252.0 -1250.5

4765 8.9 172218.0 -1254.0  
4766 9.5 172232.2 -1257.5  
4767 8.5 172236.0 -1254.9  
4768 8.7 172246.7 -1213.1  
4769 9.3 172301.9 -1213.5  
4770 9.0 172306.6 -1212.8  
4771 9.4 172327.6 -1212.2  
4772 9.2 172328.5 -1254.8  
4773 9.9 172348.0 -1219.5  
4774 9.0 172359.0 -1218.2

4775 9.2 172421.1 -1228.9  
4776 9.8 172435.9 -1215.0  
4777 9.5 172437.2 -1213.3  
4778 8.0 172439.5 -1214.6  
4779 8.3 172442.0 -1214.6  
4780 9.8 172446.9 -1212.9  
4781 9.3 172451.6 -1212.0  
4782 9.1 172453.8 -1211.9  
4783 8.5 172456.6 -1211.1  
4784 9.6 172457.2 -1211.2

4785 10. 172529.3 -1211.8  
4786 9.6 172530.7 -1210.3  
4787 9.0 172535.9 -1211.1  
4788 9.0 172537.7 -1211.9  
4789 9.1 1730 0.6 -1210.2  
4790 9.4 173009.6 -1210.0  
4791 8.9 173035.1 -1216.5  
4792 9.5 173062.2 -1207.7  
4793 9.0 173066.9 -1208.5  
4794 9.7 173091.5 -1212.6

4795 9.5 173092.7 -1207.7  
4796 9.6 173104.7 -1215.7  
4797 9.5 173125.2 -1215.8  
4798 9.2 173125.6 -1241.2  
4799 9.1 173141.0 -1228.5  
4800 9.5 173147.0 -1247.2  
4801 9.5 173209.5 -1230.5  
4802 9.3 173216.7 -1236.7  
4803 9.3 173228.4 -1242.5  
4804 9.0 173240.6 -1236.7

4805 8.4 173243.4 -1250.0  
4806 9.5 173259.0 -1222.9  
4807 9.5 173306.8 -1233.8  
4808 4.5 173315.5 -1247.6  
4809 9.0 173330.5 -1216.6  
4810 9.8 173412.6 -1216.6  
4811 10. 173426.5 -1221.3  
4812 9.8 173452.4 -1242.7  
4813 9.8 173502.5 -1249.7  
4814 9.5 173516.1 -1236.4

4815 9.5 173527.7 -1243.0  
4816 9.5 173534.4 -1235.8  
4817 9.4 173530.9 -1232.3  
4818 9.6 173545.6 -1238.0  
4819 9.7 173602.6 -1214.7  
4820 10. 173604.0 -1237.9  
4821 9.0 173610.8 -1208.5  
4822 8.3 173617.4 -1206.6  
4823 9.5 173626.4 -1249.1  
4824 9.1 173636.4 -1216.9

4825 9.3 173649.6 -1239.0  
4826 9.8 173654.5 -1240.5  
4827 9.1 173706.4 -1258.6  
4828 9.3 173731.1 -1206.1  
4829 9.8 173756.4 -1224.0  
4830 9.6 173800.5 -1229.5  
4831 9.1 173800.5 -1227.6  
4832 9.7 173835.6 -1241.7  
4833 9.7 173844.4 -1207.3  
4834 9.1 173905.8 -1252.9

4835 9.9 173921.6 -1210.4  
4836 9.4 173927.8 -1206.5  
4837 9.3 173931.2 -1254.0  
4838 9.5 173933.9 -1224.0  
4839 9.7 173943.6 -1252.3  
4840 9.1 174000.4 -1206.6  
4841 9.3 174023.0 -1259.7  
4842 9.6 174034.0 -1251.9  
4843 9.8 174045.0 -1247.2  
4844 9.2 174101.4 -1256.1

4845 9.8 174119.2 -1204.9  
4846 9.1 174131.5 -1215.0  
4847 9.5 174135.4 -1226.6  
4848 7.3 174147.1 -1233.6  
4849 9.5 174156.0 -1213.0  
4850 9.5 174207.5 -1245.0  
4851 7.6 174217.1 -1206.6  
4852 9.0 174221.4 -1253.2  
4853 9.6 174254.4 -1219.0  
4854 10. 174257.6 -1239.7

4855 8.8 174316.0 -1222.7  
4856 9.5 174318.7 -1212.4  
4857 9.2 174331.4 -1226.6  
4858 10. 174408.6 -1255.8  
4859 9.3 174410.7 -1233.2  
4860 8.8 174424.6 -1215.5  
4861 8.9 174427.1 -1205.3  
4862 7.8 174450.7 -1221.6  
4863 9.1 174527.9 -1229.5  
4864 9.4 174548.0 -1222.1

4865 9.1 174601.6 -1258.0  
4866 9.8 174616.7 -1259.8  
4867 9.4 174625.7 -1230.1  
4868 9.1 174636.6 -1256.0  
4869 9.6 174700.6 -1254.9  
4870 8.5 174704.1 -1202.4  
4871 9.4 174718.3 -1204.2  
4872 9.4 174740.2 -1256.9  
4873 9.3 174744.1 -1250.5  
4874 9.2 174829.1 -1222.9

4875 9.5 174854.2 -1217.6  
4876 8.9 174859.6 -1250.2  
4877 9.9 174919.1 -1215.2  
4878 9.7 174957.4 -1231.7  
4879 9.3 175036.2 -1242.8  
4880 10. 175010.3 -1255.2  
4881 9.5 175038.2 -1206.9  
4882 9.4 175067.7 -1251.5  
4883 9.5 175056.2 -1248.1  
4884 8.8 175105.7 -1207.0

4885 7.8 175125.3 -1270.4  
4886 9.5 175137.1 -1240.0  
4887 9.4 175137.5 -1228.3  
4888 8.3 175141.2 -1208.4  
4889 8.8 175201.1 -1239.1  
4890 7.3 175216.2 -1258.5  
4891 9.6 175222.7 -1235.3  
4892 9.4 175269.7 -1209.7  
4893 9.0 175355.7 -1201.7  
4894 9.8 175354.3 -1224.6

4895 9.8 175335.5 -1222.8  
4896 9.6 175336.5 -1219.5  
4897 9.6 175341.4 -1209.9  
4898 9.2 175349.8 -1257.1  
4899 9.7 175357.7 -1213.5  
4900 8.8 175404.9 -1209.3  
4901 9.8 175407.7 -1206.4  
4902 7.5 175414.2 -1218.5  
4903 9.9 175427.8 -1216.5  
4904 8.8 175432.7 -1220.9

4905 9.1 175434.0 -1204.0  
4906 9.7 175454.4 -1221.4  
4907 9.5 175505.7 -1250.8  
4908 9.8 175531.6 -1237.5  
4909 9.8 175534.4 -1221.1  
4910 9.0 175534.7 -1245.5  
4911 9.8 175612.0 -1204.3  
4912 9.4 175628.2 -1253.3  
4913 8.8 175657.3 -1224.9  
4914 9.2 175711.1 -1234.6

4915 9.5 175731.4 -1213.9  
4916 8.3 175758.8 -1221.8  
4917 9.4 175801.5 -1235.5  
4918 8.3 175805.1 -1238.3  
4919 8.7 175814.2 -1250.0  
4920 9.7 175836.4 -1226.1  
4921 9.6 175838.5 -1209.1  
4922 9.6 175841.5 -1230.9  
4923 10. 175848.9 -1218.1  
4924 10. 175854.3 -1215.2

4925 9.9 175904.5 -1251.3  
4926 9.1 175905.2 -1256.4  
4927 9.8 175908.2 -1219.2  
4928 9.5 175950.4 -1228.6  
4929 8.5 180007.5 -1242.6  
4930 9.4 180032.6 -1237.7  
4931 9.3 180055.7 -1204.1  
4932 9.1 180103.3 -1257.2  
4933 9.6 180122.7 -1227.2  
4934 9.1 180125.6 -1243.9

4935 9.1 180125.7 -1203.0  
4936 9.4 180134.2 -1223.3  
4937 9.5 180150.8 -1213.7  
4938 9.1 180238.8 -1212.1  
4939 8.7 180240.8 -1257.8  
4940 9.5 180306.6 -1220.0  
4941 9.9 180320.7 -1216.7  
4942 9.6 180347.3 -1200.3  
4943 9.8 180402.5 -1204.2  
4944 9.2 180421.7 -1234.7

4945 9.5 180436.7 -1248.3  
4946 10. 180447.2 -1205.1  
4947 9.5 180500.6 -1219.3  
4948 9.1 180521.0 -1227.0  
4949 9.1 180529.5 -1255.0  
4950 8.5 180553.7 -1234.9  
4951 9.5 180624.3 -1210.6  
4952 9.3 180624.9 -1241.9  
4953 8.2 180702.5 -1232.1  
4954 8.0 180703.8 -1234.5

4955 10. 180719.4 -1210.1  
4956 9.4 180724.8 -1256.2  
4957 10. 180747.6 -1224.4  
4958 10. 180752.2 -1224.3  
4959 9.5 180813.5 -1229.5  
4960 9.7 180834.9 -1237.3  
4961 9.8 180836.2 -1208.0  
4962 9.5 180906.1 -1231.1  
4963 8.6 180910.9 -1216.5  
4964 9.3 180915.5 -1221.4

4965 7.7 180918.8 -1246.4  
4966 9.5 180919.1 -1235.4  
4967 9.1 180920.4 -1219.4  
4968 9.5 180922.2 -1234.0  
4969 8.9 180924.6 -1208.8  
4970 8.7 180937.1 -1232.6  
4971 8.9 180939.2 -1218.9  
4972 9.1 180945.0 -1246.5  
4973 10. 180946.0 -1215.4  
4974 7.3 180948.1 -1255.2

4975 10. 180950.0 -1219.3  
4976 10. 180950.9 -1204.6  
4977 10. 180951.0 -1222.0  
4978 9.5 180953.5 -1217.2  
4979 9.4 180955.5 -1217.5  
4980 7.3 180958.2 -1217.2  
4981 9.6 180958.2 -1217.0  
4982 9.0 181001.8 -1213.9  
4983 9.7 181012.8 -1255.2  
4984 9.2 181012.8 -1201.1

4985 9.8 181013.5 -1214.4  
4986 9.3 181022.9 -1200.5  
4987 9.4 181027.6 -1256.6  
4988 8.5 181033.5 -1209.3  
4989 9.8 181038.9 -1203.5  
4990 9.4 181041.3 -1216.0  
4991 8.0 181042.1 -1230.0  
4992 9.5 181044.7 -1234.8  
4993 9.5 181054.7 -1249.9  
4994 9.3 181055.5 -1209.5

4995 9.5 181058.2 -1212.4  
4996 9.5 181103.7 -1243.0  
4997 9.4 181118.0 -1216.4  
4998 9.7 181122.2 -1244.3  
4999 9.2 181125.6 -1221.4  
5000 9.4 181127.2 -1240.8  
5001 8.6 181134.7 -1234.4  
5002 9.1 181141.3 -1233.9  
5003 10. 181143.4 -1231.9  
5004 9.8 181143.9 -1235.5

5005 9.8 181145.0 -1228.3  
5006 10. 181145.4 -1221.9  
5007 9.1 181156.7 -1246.8  
5008 9.3 181201.0 -1242.0  
5009 9.1 181210.1 -1213.9  
5010 9.8 181225.4 -1220.0  
5011 9.1 181226.2 -1254.4  
5012 9.6 181227.2 -1210.0  
5013 9.5 181234.7 -1226.0  
5014 8.9 181245.2 -1247.7

5015 9.3 181259.2 -1232.8  
5016 9.1 181317.1 -1232.5  
5017 9.5 181327.2 -1231.9  
5018 9.3 181332.4 -1228.5  
5019 9.5 181401.7 -1241.5  
5020 9.4 181405.9 -1225.0  
5021 9.1 181429.0 -1206.7  
5022 10. 181438.7 -1257.1  
5023 9.3 181502.7 -1242.8  
5024 5.5 181505.5 -1204.7

5025 9.3 181510.4 -1207.4  
5026 7.3 181511.6 -1221.4  
5027 9.8 181526.7 -1255.6  
5028 9.4 181527.4 -1243.4  
5029 9.8 181543.5 -1212.3  
5030 9.6 181543.5 -1209.6  
5031 8.0 181550.6 -1239.1  
5032 9.5 181552.2 -1228.3  
5033 8.7 181602.4 -1218.1  
5034 8.8 181604.1 -1216.5

5035 9.5 181628.4 -1214.8  
5036 8.7 181631.2 -1244.8  
5037 9.8 181631.9 -1239.3  
5038 8.6 181633.2 -1233.1  
5039 9.8 181639.4 -1208.8  
5040 9.8 181642.5 -1214.3  
5041 9.7 181657.2 -1227.3  
5042 9.8 181657.4 -1244.3  
5043 9.3 181716.1 -1215.7  
5044 9.5 181718.5 -1237.7

5045 8.5 181722.7 -1246.3  
5046 9.6 181735.2 -1259.7  
5047 9.5 181819.6 -1212.4  
5048 9.0 181831.7 -1221.6  
5049 9.3 181840.3 -1245.0  
5050 9.5 181851.2 -1255.3  
5051 9.8 181853.3 -1210.7  
5052 9.7 181905.7 -1235.2  
5053 9.1 181915.2 -1237.5  
5054 9.3 181919.7 -1249.1

5055 9.0 181928.2 -1233.2  
5056 9.8 181929.5 -1217.8  
5057 9.3 181950.6 -1215.1  
5058 9.0 182020.2 -1253.3  
5059 8.9 182026.3 -1244.9  
5060 9.2 182041.7 -1233.2  
5061 9.8 182050.2 -1216.9  
5062 9.7 182051.5 -1206.0  
5063 9.4 182052.2 -1251.8  
5064 9.5 182056.1 -1232.6

5065 9.7 182107.7 -1237.3  
5066 9.3 182111.0 -1237.9  
5067 9.1 182124.2 -1242.2  
5068 9.4 182124.2 -1220.2  
5069 9.5 182138.7 -1225.6  
5070 8.8 182143.0 -1205.4  
5071 9.2 182146.3 -1220.7  
5072 8.7 182146.9 -1229.2  
5073 9.7 182149.8 -1251.5  
5074 9.5 182155.9 -1256.2

5075 9.5 182201.7 -1247.0  
5076 9.5 182205.7 -1217.0  
5077 8.4 182210.2 -1241.2  
5078 9.8 182218.6 -1219.3  
5079 9.5 182223.5 -1215.9  
5080 9.3 182237.7 -1244.1  
5081 9.4 182250.0 -1207.7  
5082 9.5 182305.5 -1210.2  
5083 8.7 182315.2 -1226.2  
5084 8.3 182318.9 -1241.4

5085 7.0 182319.2 -1206.8  
5086 9.5 182319.8 -1248.0  
5087 9.6 182333.1 -1257.8  
5088 9.8 182335.2 -1244.4  
5089 9.5 182353.5 -1209.5  
5090 9.0 182401.2 -1241.2  
5091 9.3 182406.3 -1205.4  
5092 9.8 182418.8 -1239.2  
5093 9.6 182420.6 -1251.1  
5094 9.7 182433.9 -1256.0



5095 9.4 182433.9 -1254.0  
 5096 9.4 182452.1 -1215.5  
 5097 9.8 182503.6 -1230.9  
 5098 9.6 182504.0 -1254.4  
 5099 9.1 182508.7 -1221.1  
 5100 9.5 182524.3 -1201.1  
 5101 9.5 182524.3 -1204.9  
 5102 7.7 182524.4 -1248.7  
 5103 9.1 182544.6 -1214.0  
 5104 8.9 182545.9 -1221.8

5105 9.8 182546.5 -1244.6  
 5106 9.1 182603.7 -1251.6  
 5107 9.6 182627.4 -1210.0  
 5108 10. 182631.5 -1222.0  
 5109 9.5 182631.7 -1219.8  
 5110 9.7 182634.1 -1207.8  
 5111 9.5 182705.2 -1242.9  
 5112 7.8 182713.6 -1217.3  
 5113 9.1 182735.7 -1256.8  
 5114 10. 182748.2 -1231.5

5115 8.2 182824.1 -1205.6  
 5116 9.7 182850.9 -1257.6  
 5117 9.7 182854.1 -1247.1  
 5118 9.6 182917.0 -1200.7  
 5119 8.7 182922.4 -1248.0  
 5120 6.4 182925.7 -1227.9  
 5121 9.1 182934.3 -1206.4  
 5122 9.3 182950.2 -1225.2  
 5123 9.9 182956.9 -1229.2  
 5124 9.3 183011.9 -1217.1

5125 9.8 183020.4 -1240.4  
 5126 9.0 183033.3 -1244.5  
 5127 7.9 183039.8 -1210.5  
 5128 9.9 183056.3 -1205.3  
 5129 7.5 183118.8 -1222.3  
 5130 9.0 183124.8 -1257.5  
 5131 9.1 183127.9 -1238.0  
 5132 8.5 183134.7 -1200.2  
 5133 9.5 183153.9 -1232.6  
 5134 9.5 183156.4 -1217.1

5135 9.4 183201.7 -1251.3  
 5136 9.8 183206.4 -1255.4  
 5137 9.0 183227.3 -1249.9  
 5138 9.4 183237.6 -1236.0  
 5139 9.2 183247.6 -1233.3  
 5140 9.9 183321.4 -1248.7  
 5141 9.2 183321.4 -1251.3  
 5142 9.0 183335.1 -1214.6  
 5143 9.5 183336.0 -1246.4  
 5144 9.9 183337.9 -1234.2

5145 9.7 183340.0 -1258.5  
 5146 9.5 183344.0 -1258.3  
 5147 9.2 183357.4 -1251.2  
 5148 9.8 183401.8 -1254.4  
 5149 9.4 183415.5 -1234.8  
 5150 8.7 183428.6 -1202.0  
 5151 9.0 183526.5 -1251.1  
 5152 9.6 183534.0 -1229.3  
 5153 9.3 183554.2 -1230.5  
 5154 9.5 183602.8 -1246.1

5155 9.0 183620.7 -1208.3  
 5156 8.3 183657.0 -1256.2  
 5157 9.9 183708.1 -1233.2  
 5158 7.8 183710.8 -1243.7  
 5159 6.7 183725.8 -1244.0  
 5160 8.3 183746.7 -1214.1  
 5161 9.1 183805.2 -1213.6  
 5162 8.8 183828.8 -1247.9  
 5163 8.6 183847.2 -1225.9  
 5164 8.8 183852.5 -1232.0

5165 9.4 183853.8 -1250.6  
 5166 8.9 183859.7 -1217.2  
 5167 9.5 183934.2 -1214.4  
 5168 7.1 183937.2 -1228.8  
 5169 9.3 183937.3 -1232.5  
 5170 9.6 183939.0 -1258.1  
 5171 9.5 184002.5 -1235.3  
 5172 9.4 184016.8 -1244.1  
 5173 9.2 184032.2 -1228.0  
 5174 8.5 184042.3 -1242.8

5175 9.5 184043.4 -1234.3  
 5176 9.2 184048.1 -1242.9  
 5177 8.8 184103.8 -1245.2  
 5178 9.1 184105.2 -1255.5  
 5179 9.4 184110.3 -1254.9  
 5180 9.6 184111.9 -1235.4  
 5181 9.5 184115.5 -1233.6  
 5182 8.7 184119.6 -1258.6  
 5183 9.1 184128.2 -1231.3  
 5184 9.6 184138.8 -1243.8

5185 9.8 184147.4 -1251.9  
 5186 9.5 184227.6 -1239.0  
 5187 9.8 184245.9 -1256.6  
 5188 9.2 184252.4 -1242.0  
 5189 9.4 184302.3 -1223.2  
 5190 9.5 184311.1 -1226.5  
 5191 9.1 184418.1 -1225.7  
 5192 9.8 184421.8 -1254.3  
 5193 9.2 184424.3 -1203.3  
 5194 8.8 184429.4 -1231.8

5195 9.0 184435.2 -1204.0  
 5196 9.5 184448.9 -1232.3  
 5197 9.5 184507.1 -1219.8  
 5198 8.9 184512.9 -1245.0  
 5199 9.4 184526.1 -1240.0  
 5200 9.8 184532.3 -1259.5  
 5201 9.4 184539.3 -1209.3  
 5202 9.3 184619.7 -1246.9  
 5203 9.6 184621.8 -1232.8  
 5204 9.2 184704.2 -1254.8

5205 9.6 184718.3 -1217.1  
 5206 9.7 184721.7 -1209.6  
 5207 9.6 184726.3 -1210.0  
 5208 9.3 184726.3 -1259.1  
 5209 9.3 184731.9 -1231.3  
 5210 9.9 184818.2 -1207.6  
 5211 9.5 184827.3 -1208.6  
 5212 9.0 184842.3 -1219.8  
 5213 9.5 184845.2 -1208.9  
 5214 8.9 184857.7 -1204.6

5215 9.1 184907.2 -1203.7  
 5216 9.5 184909.3 -1218.8  
 5217 9.5 184911.4 -1248.5  
 5218 8.3 184937.4 -1259.0  
 5219 9.8 184951.4 -1248.3  
 5220 9.8 184955.5 -1214.6  
 5221 9.5 184957.3 -1218.1  
 5222 9.5 185002.4 -1256.8  
 5223 9.5 185005.9 -1230.2  
 5224 9.4 185015.0 -1233.9

5225 9.5 185019.4 -1239.7  
 5226 8.8 185022.4 -1233.4  
 5227 10. 185052.3 -1225.3  
 5228 6.9 185053.4 -1246.4  
 5229 9.8 185114.6 -1214.5  
 5230 9.6 185115.3 -1218.1  
 5231 9.1 185123.4 -1243.8  
 5232 9.7 185126.5 -1211.8  
 5233 9.5 185129.7 -1231.3  
 5234 9.2 185140.6 -1238.6

5235 9.0 185201.8 -1207.9  
 5236 8.7 185202.1 -1248.1  
 5237 8.3 185204.3 -1227.9  
 5238 9.8 185210.8 -1229.6  
 5239 9.5 185226.4 -1251.1  
 5240 9.5 185239.6 -1230.9  
 5241 9.5 185239.6 -1230.9  
 5242 9.3 185250.4 -1247.5  
 5243 9.3 185304.0 -1230.7  
 5244 9.2 185306.8 -1210.1

5245 9.5 185322.3 -1234.4  
 5246 9.4 185346.2 -1205.7  
 5247 9.0 185401.9 -1258.6  
 5248 9.0 185405.3 -1234.4  
 5249 9.5 185405.8 -1208.2  
 5250 9.0 185407.6 -1220.6  
 5251 9.0 185409.4 -1251.5  
 5252 9.1 185430.3 -1203.3  
 5253 9.8 185440.5 -1202.8  
 5254 9.4 185441.5 -1235.5

5255 9.5 185442.8 -1226.0  
 5256 9.2 185502.3 -1213.0  
 5257 9.3 185538.9 -1209.3  
 5258 9.5 185509.2 -1200.1  
 5259 7.5 185512.8 -1254.8  
 5260 9.6 185522.4 -1247.6  
 5261 9.5 185533.3 -1223.7  
 5262 9.4 185539.2 -1203.8  
 5263 9.0 185547.0 -1200.6  
 5264 9.7 185608.0 -1225.4

5265 9.9 185611.9 -1246.3  
 5266 9.3 185618.0 -1206.8  
 5267 9.5 185619.3 -1208.3  
 5268 9.3 185629.9 -1231.5  
 5269 9.4 185657.9 -1257.6  
 5270 9.5 185702.8 -1207.1  
 5271 9.2 185705.8 -1211.8  
 5272 8.8 185711.9 -1238.0  
 5273 9.3 185719.2 -1233.4  
 5274 7.5 185732.3 -1213.4

5275 9.5 185736.5 -1247.6  
 5276 9.4 185801.8 -1216.1  
 5277 9.4 185814.3 -1215.7  
 5278 7.0 185822.2 -1205.9  
 5279 8.0 185837.0 -1237.2  
 5280 9.2 185840.3 -1216.7  
 5281 8.3 185855.7 -1203.0  
 5282 9.0 185908.0 -1234.2  
 5283 9.5 185908.9 -1253.5  
 5284 9.8 185924.0 -1246.8

5285 9.0 185925.6 -1222.9  
 5286 9.5 185940.8 -1221.5  
 5287 9.7 185941.9 -1233.8  
 5288 9.4 185947.1 -1258.3  
 5289 9.6 185948.4 -1259.1  
 5290 9.4 190014.8 -1208.6  
 5291 9.8 190044.1 -1212.3  
 5292 9.1 190112.8 -1207.3  
 5293 9.5 190114.3 -1203.9  
 5294 8.8 190116.4 -1218.9

5295 8.8 190134.6 -1200.9  
 5296 9.3 190137.5 -1229.2  
 5297 9.7 190138.5 -1228.5  
 5298 8.2 190235.0 -1242.5  
 5299 7.5 190244.9 -1222.4  
 5300 9.1 190256.9 -1217.7  
 5301 9.3 190310.4 -1216.4  
 5302 9.7 190324.9 -1202.5  
 5303 8.7 190339.5 -1254.8  
 5304 9.8 190342.2 -1216.6

5305 9.8 190427.7 -1240.5  
 5306 9.4 190428.0 -1258.6  
 5307 9.6 190440.8 -1213.9  
 5308 9.0 190446.0 -1249.4  
 5309 9.0 190500.4 -1217.1  
 5310 9.1 190505.4 -1220.2  
 5311 5.9 190509.4 -1231.5  
 5312 10. 190510.3 -1245.2  
 5313 9.7 190510.5 -1247.8  
 5314 9.7 190527.2 -1251.5

5315 9.0 190550.0 -1259.3  
 5316 8.2 190602.9 -1219.7  
 5317 8.7 190617.0 -1249.7  
 5318 9.2 190619.3 -1212.1  
 5319 9.4 190638.4 -1211.5  
 5320 9.8 190641.9 -1213.7  
 5321 9.2 190649.4 -1234.9  
 5322 9.5 190652.0 -1252.4  
 5323 9.5 190700.6 -1258.0  
 5324 9.3 190701.5 -1253.0

5325 9.0 190707.3 -1206.4  
 5326 9.2 190725.4 -1201.2  
 5327 9.4 190729.5 -1248.0  
 5328 8.5 190809.7 -1203.5  
 5329 9.6 190810.6 -1222.6  
 5330 9.8 190818.4 -1208.7  
 5331 9.4 190818.8 -1202.7  
 5332 9.4 190855.0 -1229.0  
 5333 9.1 190902.0 -1252.8  
 5334 9.5 190919.5 -1247.2

5335 8.8 190928.3 -1225.7  
 5336 9.3 190942.4 -1209.6  
 5337 9.0 191001.8 -1202.9  
 5338 9.5 191015.4 -1219.0  
 5339 9.2 191021.8 -1207.6  
 5340 9.3 191030.8 -1244.0  
 5341 9.3 191036.0 -1255.1  
 5342 9.3 191045.3 -1244.2  
 5343 9.5 191048.5 -1227.0  
 5344 9.0 191049.9 -1220.6

5345 9.3 191056.2 -1259.7  
 5346 9.4 191111.4 -1210.1  
 5347 9.4 191116.8 -1209.9  
 5348 10. 191126.1 -1257.9  
 5349 9.8 191133.4 -1212.4  
 5350 9.5 191215.8 -1251.7  
 5351 9.4 191226.0 -1220.9  
 5352 9.8 191237.1 -1235.7  
 5353 8.9 191241.6 -1242.1  
 5354 8.6 191257.2 -1232.1

5355 8.4 191257.7 -1214.9  
 5356 9.5 191305.2 -1236.1  
 5357 9.0 191305.5 -1201.7  
 5358 9.0 191305.5 -1223.4  
 5359 9.1 191308.1 -1213.7  
 5360 9.2 191308.4 -1231.0  
 5361 8.9 191313.3 -1231.5  
 5362 9.8 191336.3 -1214.3  
 5363 9.7 191349.6 -1238.0  
 5364 9.8 191416.8 -1258.0

5365 9.7 191422.8 -1227.3  
 5366 10. 191422.9 -1257.5  
 5367 10. 191426.1 -1202.5  
 5368 9.0 191426.3 -1207.8  
 5369 9.5 191437.2 -1200.0  
 5370 9.8 191439.8 -1206.5  
 5371 9.1 191440.3 -1211.6  
 5372 8.7 191441.6 -1212.5  
 5373 9.5 191447.4 -1209.6  
 5374 9.2 191448.6 -1244.0

5375 9.4 191450.0 -1229.7  
 5376 9.5 191452.4 -1216.0  
 5377 9.3 191515.5 -1219.7  
 5378 9.5 191517.6 -1228.8  
 5379 9.4 191540.1 -1244.0  
 5380 9.8 191556.4 -1205.9  
 5381 9.5 191557.0 -1230.4  
 5382 9.1 191601.1 -1211.1  
 5383 9.2 191602.8 -1213.4  
 5384 9.5 191605.9 -1230.3

5385 9.8 191622.2 -1256.7  
 5386 9.4 191625.0 -1212.0  
 5387 9.0 191633.6 -1257.5  
 5388 7.3 191634.3 -1253.7  
 5389 9.5 191641.9 -1224.0  
 5390 8.0 191647.8 -1207.2  
 5391 9.7 191712.4 -1228.9  
 5392 10. 191714.8 -1258.3  
 5393 9.0 191732.6 -1256.2  
 5394 9.6 191742.1 -1232.0

5395 9.4 191755.3 -1212.0  
 5396 9.3 191804.6 -1252.5  
 5397 9.5 191808.7 -1220.5  
 5398 8.9 191812.3 -1234.4  
 5399 9.0 191818.8 -1251.8  
 5400 9.3 191825.2 -1247.0  
 5401 9.6 191833.0 -1210.4  
 5402 9.7 191843.1 -1229.8  
 5403 9.5 191847.2 -1234.0  
 5404 9.5 191854.9 -1219.7

5405 9.6 191921.3 -1226.8  
 5406 9.4 191936.7 -1242.8  
 5407 9.5 191947.1 -1234.0  
 5408 9.1 191956.6 -1243.1  
 5409 7.3 192007.1 -1226.0  
 5410 9.5 192008.3 -1210.0  
 5411 9.3 192032.6 -1227.5  
 5412 9.2 192101.1 -1226.1  
 5413 9.7 192101.7 -1222.5  
 5414 9.3 192112.2 -1254.5

5415 9.0 192115.7 -1249.1  
 5416 9.1 192130.0 -1229.2  
 5417 7.3 192131.0 -1256.6  
 5418 9.1 192137.9 -1218.4  
 5419 9.4 192155.9 -1209.1  
 5420 8.3 192156.2 -1252.5  
 5421 9.0 192158.1 -1246.0  
 5422 9.5 192212.3 -1233.7  
 5423 9.5 192216.0 -1219.2  
 5424 9.5 192241.4 -1218.0

5425 8.0 192241.4 -1209.0  
 5426 9.4 192250.5 -1222.4  
 5427 8.3 192305.5 -1246.1  
 5428 9.5 192308.3 -1240.5  
 5429 10. 192319.9 -1217.8  
 5430 9.0 192320.2 -1245.3  
 5431 9.4 192333.2 -1252.9  
 5432 9.2 192339.7 -1242.6  
 5433 9.5 192342.4 -1221.8  
 5434 9.4 192344.5 -1228.0

5435 9.5 192359.9 -1209.7  
 5436 9.5 192400.7 -1248.1  
 5437 9.1 192401.5 -1230.7  
 5438 9.0 192403.4 -1219.5  
 5439 9.0 192406.7 -1241.5  
 5440 9.8 192419.2 -1259.7  
 5441 9.5 192432.7 -1252.5  
 5442 9.3 192445.8 -1236.5  
 5443 8.0 192454.2 -1206.5  
 5444 9.3 192504.2 -1255.7

5445 9.7 192511.7 -1209.3  
 5446 9.9 192512.8 -1210.7  
 5447 9.8 192517.2 -1233.4  
 5448 9.6 192518.3 -1234.3  
 5449 9.1 192540.0 -1219.4  
 5450 10. 192548.7 -1232.4  
 5451 9.5 192549.8 -1237.3  
 5452 9.0 192555.2 -1206.4  
 5453 9.6 192559.7 -1232.2  
 5454 9.5 192619.0 -1216.5



-12 5455 19h26m

5455 9.3 192624.1 -1235.8  
5456 8.2 192627.8 -1226.6  
5457 9.5 192644.1 -1239.8  
5458 9.5 192649.3 -1253.2  
5459 9.8 192710.2 -1253.2  
5460 9.9 192726.5 -1217.6  
5461 6.3 192728.2 -1233.9  
5462 9.4 192736.0 -1222.7  
5463 9.0 192737.4 -1200.7  
5464 9.5 192749.7 -1233.0

5465 9.7 192751.4 -1216.3  
5466 9.5 192755.9 -1234.5  
5467 9.5 192758.2 -1230.6  
5468 9.4 192821.0 -1211.7  
5469 9.8 192834.7 -1256.0  
5470 9.1 192837.3 -1239.7  
5471 9.8 192843.3 -1255.3  
5472 9.3 192857.3 -1227.7  
5473 9.0 192857.7 -1202.8  
5474 9.5 192936.5 -1235.0

5475 9.3 192953.3 -1256.7  
5476 9.6 192956.0 -1216.8  
5477 9.5 193003.6 -1236.8  
5478 9.1 193023.6 -1229.5  
5479 9.5 193034.4 -1234.8  
5480 9.3 193039.7 -1220.1  
5481 9.1 193047.3 -1252.8  
5482 9.5 193051.0 -1205.3  
5483 9.6 193053.1 -1212.4  
5484 9.3 193057.3 -1256.9

5485 9.5 193108.8 -1249.3  
5486 10. 193109.7 -1208.6  
5487 9.3 193134.1 -1239.2  
5488 9.0 193148.3 -1216.3  
5489 9.3 193159.3 -1251.5  
5490 9.8 193159.3 -1259.4  
5491 8.8 193202.0 -1212.0  
5492 8.8 193217.3 -1256.7  
5493 9.5 193223.4 -1205.8  
5494 9.2 193237.7 -1231.5

5495 9.0 193247.5 -1219.8  
5496 10. 193252.3 -1243.1  
5497 8.3 193322.6 -1215.6  
5498 8.9 193331.0 -1204.0  
5499 9.8 193343.4 -1239.5  
5500 9.5 193409.2 -1219.9  
5501 9.2 193435.8 -1248.5  
5502 9.6 193443.6 -1226.0  
5503 9.5 193513.4 -1225.5  
5504 9.5 193517.5 -1242.5

5505 9.5 193523.6 -1220.4  
5506 9.4 193529.6 -1228.1  
5507 9.5 193532.0 -1211.9  
5508 9.5 193545.1 -1222.9  
5509 9.8 193559.1 -1218.6  
5510 7.8 193604.0 -1200.7  
5511 9.0 193607.3 -1247.9  
5512 9.5 193619.6 -1215.2  
5513 9.3 193625.4 -1239.6  
5514 9.6 193625.6 -1215.7

5515 9.5 193626.1 -1255.2  
5516 9.3 193706.5 -1203.4  
5517 9.3 193729.6 -1202.5  
5518 9.1 193739.4 -1242.6  
5519 9.3 193754.0 -1235.1  
5520 10. 193756.2 -1211.2  
5521 9.8 193807.9 -1250.1  
5522 10. 193818.4 -1216.3  
5523 8.0 193824.1 -1213.7  
5524 9.8 193826.0 -1239.0

5525 9.1 193828.4 -1256.6  
5526 8.2 193850.0 -1229.6  
5527 9.8 193850.9 -1243.5  
5528 9.2 193851.5 -1231.9  
5529 9.6 193857.3 -1213.8  
5530 9.0 193858.5 -1236.1  
5531 9.8 193949.8 -1248.0  
5532 9.8 193950.6 -1218.8  
5533 9.3 193956.9 -1254.2  
5534 9.4 193957.1 -1218.4

5535 8.7 193958.7 -1250.0  
5536 9.0 194007.2 -1220.0  
5537 9.8 194029.1 -1245.1  
5538 9.9 194031.0 -1227.1  
5539 9.4 194034.4 -1247.4  
5540 7.8 194035.7 -1228.5  
5541 6.5 194046.2 -1240.2  
5542 9.1 194056.6 -1215.9  
5543 9.5 194137.4 -1245.2  
5544 9.8 194142.5 -1232.7

5545 9.5 194158.0 -1231.3  
5546 9.3 194206.9 -1256.7  
5547 9.4 194210.0 -1236.9  
5548 9.8 194221.4 -1242.3  
5549 10. 194221.6 -1213.5  
5550 9.5 194241.1 -1215.7  
5551 9.8 194257.4 -1246.4  
5552 9.5 194300.4 -1232.5  
5553 9.2 194302.2 -1207.3  
5554 8.9 194303.6 -1201.7

5555 9.5 194308.9 -1223.0  
5556 9.6 194315.9 -1223.8  
5557 9.4 194320.1 -1220.5  
5558 7.0 194329.4 -1259.1  
5559 8.2 194330.6 -1211.0  
5560 10. 194338.0 -1240.3  
5561 8.7 194338.6 -1223.6  
5562 9.3 194342.4 -1248.3  
5563 8.5 194401.9 -1256.8  
5564 8.5 194403.2 -1214.5

5565 9.4 194423.1 -1208.8  
5566 9.5 194430.7 -1219.5  
5567 9.0 194456.6 -1202.1  
5568 9.4 194503.1 -1233.7  
5569 8.8 194519.7 -1209.5  
5570 8.2 194530.6 -1258.4  
5571 9.6 194529.6 -1253.1  
5572 9.1 194537.1 -1249.3  
5573 9.3 194609.5 -1215.5  
5574 7.8 194623.6 -1244.3

5575 9.5 194625.2 -1200.5  
5576 9.3 194636.1 -1251.1  
5577 9.0 194642.1 -1245.8  
5578 9.8 194654.9 -1216.5  
5579 9.4 194707.5 -1242.5  
5580 9.1 194735.5 -1249.1  
5581 9.1 194749.0 -1250.2  
5582 10. 194758.7 -1203.5  
5583 9.8 194804.5 -1240.0  
5584 9.8 194832.2 -1210.5

5585 9.2 194838.5 -1249.8  
5586 9.5 194849.3 -1221.0  
5587 9.8 194851.7 -1204.7  
5588 9.5 194852.5 -1256.5  
5589 9.5 194859.8 -1218.7  
5590 8.5 194902.2 -1256.8  
5591 9.1 194905.7 -1207.1  
5592 9.2 194906.7 -1226.5  
5593 9.2 194912.1 -1226.2  
5594 8.8 194915.5 -1256.1

5595 10. 194929.6 -1216.8  
5596 9.7 194931.1 -1217.6  
5597 9.0 194933.9 -1225.0  
5598 9.4 194948.8 -1253.8  
5599 9.4 195014.3 -1223.7  
5600 9.8 195015.6 -1224.4  
5601 9.8 195032.2 -1226.5  
5602 8.8 195100.1 -1235.3  
5603 8.9 195101.0 -1221.1  
5604 9.4 195101.5 -1251.7

5605 9.3 195102.7 -1205.0  
5606 9.0 195107.3 -1207.0  
5607 7.5 195133.2 -1206.3  
5608 8.7 195136.1 -1225.5  
5609 9.8 195154.9 -1256.2  
5610 9.4 195216.1 -1239.2  
5611 9.5 195221.3 -1221.3  
5612 9.5 195258.1 -1259.4  
5613 7.3 195300.7 -1238.0  
5614 9.4 195302.8 -1209.8

5615 9.5 195307.6 -1227.7  
5616 9.4 195308.9 -1233.7  
5617 8.7 195310.4 -1214.4  
5618 9.0 195322.2 -1229.5  
5619 9.0 195356.9 -1256.5  
5620 9.6 195407.2 -1231.8  
5621 8.8 195415.8 -1221.4  
5622 9.4 195421.2 -1231.2  
5623 7.8 195425.9 -1213.9  
5624 9.1 195429.8 -1244.6

5625 9.4 195451.7 -1220.8  
5626 9.9 195453.3 -1211.0  
5627 9.4 195508.3 -1206.0  
5628 8.0 195512.9 -1249.3  
5629 9.3 195520.0 -1237.6  
5630 9.8 195521.0 -1254.8  
5631 9.8 195537.9 -1243.6  
5632 9.1 195541.8 -1217.6  
5633 9.7 195558.9 -1259.2  
5634 9.0 195606.4 -1212.7

5635 8.8 195619.3 -1236.7  
5636 8.5 195622.6 -1214.8  
5637 9.5 195622.8 -1205.1  
5638 9.5 195636.3 -1202.5  
5639 8.2 195701.4 -1221.9  
5640 10. 195703.3 -1259.8  
5641 6.2 195704.9 -1200.0  
5642 9.5 195812.8 -1242.7  
5643 9.5 195819.5 -1230.1  
5644 9.0 195820.8 -1242.1

5645 7.3 195847.2 -1251.2  
5646 9.8 195850.3 -1258.7  
5647 9.5 195851.8 -1241.3  
5648 9.8 195910.2 -1220.3  
5649 9.9 195931.1 -1207.5  
5650 9.6 195940.2 -1209.0  
5651 9.2 200010.4 -1232.0  
5652 9.8 200018.2 -1226.4  
5653 8.5 200052.2 -1205.1  
5654 9.5 200055.8 -1255.9

5655 9.0 200113.7 -1234.5  
5656 9.0 200159.7 -1225.7  
5657 9.1 200220.2 -1211.0  
5658 9.3 200222.7 -1231.1  
5659 9.5 200225.9 -1244.2  
5660 9.1 200243.8 -1217.0  
5661 9.7 200252.8 -1224.5  
5662 9.4 200339.4 -1230.1  
5663 8.5 200346.1 -1230.2  
5664 6.5 200355.9 -1249.1

5665 9.5 200358.9 -1244.9  
5666 9.2 200400.3 -1215.9  
5667 9.5 200418.0 -1208.6  
5668 9.7 200447.8 -1205.3  
5669 9.5 200455.3 -1205.6  
5670 9.5 200521.6 -1244.0  
5671 9.2 200547.2 -1231.1  
5672 9.9 200608.0 -1252.0  
5673 9.5 200608.5 -1245.5  
5674 9.1 200609.6 -1239.5

5675 7.8 200650.8 -1204.2  
5676 9.7 200722.0 -1243.1  
5677 9.6 200746.0 -1259.5  
5678 9.2 200750.4 -1210.2  
5679 9.0 200755.4 -1208.1  
5680 6.8 200821.0 -1246.5  
5681 9.5 200905.5 -1254.1  
5682 9.1 200935.6 -1257.7  
5683 4.5 200936.5 -1257.2  
5684 9.5 200951.5 -1243.7

5685 3.8 201000.5 -1259.1  
5686 9.1 201054.1 -1228.2  
5687 9.2 201054.3 -1253.3  
5688 9.9 201131.9 -1228.4  
5689 9.5 201147.5 -1258.0  
5690 9.6 201147.7 -1237.8  
5691 9.6 201149.8 -1242.4  
5692 9.5 201159.9 -1225.8  
5693 9.1 201203.4 -1201.0  
5694 9.2 201224.9 -1200.9

5695 9.4 201231.7 -1258.0  
5696 9.2 201231.9 -1204.9  
5697 9.8 201240.6 -1243.8  
5698 9.8 201255.5 -1217.0  
5699 10. 201308.6 -1258.7  
5700 9.6 201310.6 -1236.6  
5701 9.0 201312.2 -1212.7  
5702 9.1 201334.0 -1220.5  
5703 9.3 201403.5 -1255.4  
5704 8.5 201434.7 -1250.5

5705 10. 201443.6 -1257.1  
5706 9.3 201450.4 -1210.7  
5707 9.3 201509.1 -1242.8  
5708 9.5 201509.3 -1233.8  
5709 9.5 201522.0 -1215.3  
5710 9.5 201536.9 -1211.2  
5711 9.5 201541.2 -1250.1  
5712 9.0 201551.6 -1219.8  
5713 10. 201558.0 -1217.4  
5714 8.5 201618.7 -1204.3

5715 9.8 201626.3 -1235.7  
5716 9.5 201629.1 -1255.0  
5717 9.4 201653.4 -1235.3  
5718 9.6 201653.6 -1200.5  
5719 8.8 201657.5 -1202.0  
5720 9.4 201658.9 -1241.4  
5721 7.7 201708.5 -1210.2  
5722 9.4 201714.9 -1247.2  
5723 10. 201723.2 -1221.9  
5724 9.1 201731.0 -1231.4

5725 9.5 201800.3 -1226.6  
5726 9.3 201813.4 -1227.6  
5727 8.2 201817.2 -1241.2  
5728 9.5 201828.5 -1235.0  
5729 10. 201852.4 -1234.1  
5730 9.8 201906.6 -1220.5  
5731 7.8 201910.8 -1200.6  
5732 9.1 201911.1 -1217.9  
5733 9.2 201917.5 -1206.2  
5734 9.1 201935.8 -1233.0

5735 9.8 201936.5 -1205.5  
5736 9.5 201948.6 -1203.8  
5737 10. 202012.1 -1231.9  
5738 7.4 202033.6 -1216.5  
5739 9.5 202049.5 -1212.0  
5740 9.7 202052.1 -1211.8  
5741 9.8 202104.3 -1247.7  
5742 9.1 202134.6 -1214.2  
5743 9.3 202143.6 -1244.5  
5744 9.8 202154.3 -1240.5

5745 9.3 202208.8 -1235.6  
5746 9.7 202213.9 -1234.7  
5747 8.2 202222.6 -1216.5  
5748 8.5 202227.3 -1242.9  
5749 9.1 202229.9 -1234.6  
5750 9.6 202232.3 -1225.2  
5751 9.5 202306.8 -1258.0  
5752 8.6 202318.6 -1207.6  
5753 9.2 202329.1 -1207.6  
5754 9.9 202330.8 -1243.2

5755 9.2 202343.1 -1222.1  
5756 9.7 202356.6 -1222.1  
5757 10. 202407.4 -1227.9  
5758 9.2 202408.2 -1236.6  
5759 8.5 202410.1 -1203.7  
5760 9.8 202450.6 -1203.5  
5761 9.8 202454.2 -1222.3  
5762 9.5 202457.9 -1239.4  
5763 9.9 202530.7 -1216.8  
5764 8.5 202550.7 -1212.6

5765 9.5 202554.9 -1234.6  
5766 7.0 202600.8 -1249.7  
5767 9.8 202626.8 -1254.4  
5768 8.2 202640.8 -1256.4  
5769 9.6 202643.4 -1241.5  
5770 9.4 202644.2 -1221.9  
5771 9.5 202719.4 -1211.7  
5772 9.5 202722.1 -1211.1  
5773 9.8 202734.2 -1218.4  
5774 9.5 202738.2 -1203.9

5775 9.5 202744.7 -1222.6  
5776 10. 202747.6 -1216.8  
5777 9.4 202751.7 -1219.0  
5778 6.8 202815.9 -1252.4  
5779 9.2 202826.0 -1204.7  
5780 9.5 202838.7 -1201.9  
5781 9.6 202849.9 -1235.2  
5782 9.8 202856.2 -1222.8  
5783 9.6 202901.3 -1216.0  
5784 8.9 202904.2 -1200.4

5785 8.9 202906.2 -1204.3  
5786 9.5 202921.2 -1206.9  
5787 8.6 202927.2 -1221.6  
5788 9.3 202953.6 -1235.7  
5789 8.5 202953.9 -1231.2  
5790 9.0 202954.7 -1248.5  
5791 9.8 202956.7 -1212.4  
5792 8.4 203034.3 -1227.5  
5793 9.8 203034.4 -1235.1  
5794 8.5 203059.3 -1235.1

5795 7.8 203125.6 -1216.1  
5796 8.8 203131.2 -1223.9  
5797 9.9 203131.9 -1252.2  
5798 9.4 203136.1 -1233.7  
5799 10. 203137.5 -1245.7  
5800 9.3 203209.6 -1236.8  
5801 9.5 203218.0 -1244.9  
5802 9.5 203244.3 -1204.6  
5803 8.5 203255.5 -1242.8  
5804 9.5 203313.0 -1242.4

5805 10. 203320.8 -1224.6  
5806 9.9 203325.0 -1210.1  
5807 9.5 203334.0 -1226.9  
5808 8.2 203343.5 -1250.8  
5809 9.9 203420.0 -1242.3  
5810 9.8 203421.8 -1218.3  
5811 9.2 203453.7 -1229.4  
5812 8.7 203455.0 -1231.0  
5813 9.8 203520.1 -1248.8  
5814 8.5 203520.3 -1213.7

-12 5814 20h35m



-12 5815 20h35m

5815 9.0 203524.4 -1217.1  
5816 9.4 203528.3 -1225.0  
5817 8.5 203533.5 -1255.5  
5818 6.7 203537.4 -1209.5  
5819 9.7 203547.4 -1230.9  
5820 9.7 203611.6 -1240.6  
5821 8.3 203612.0 -1207.3  
5822 9.0 203613.1 -1248.6  
5823 9.8 203614.5 -1220.7  
5824 9.1 203636.9 -1206.1  
  
5825 9.6 203656.2 -1238.2  
5826 9.5 203700.6 -1242.1  
5827 9.5 203755.2 -1229.1  
5828 9.5 203806.9 -1230.4  
5829 9.0 203812.5 -1258.6  
5830 9.0 203813.1 -1207.6  
5831 9.4 203814.0 -1225.5  
5832 9.3 203836.7 -1236.0  
5833 9.1 203837.1 -1249.2  
5834 9.5 203910.6 -1217.1  
  
5835 9.5 203911.0 -1254.6  
5836 9.6 203940.4 -1228.7  
5837 9.3 203942.2 -1240.4  
5838 9.8 203943.6 -1255.1  
5839 8.0 204016.6 -1259.1  
5840 8.9 204026.0 -1205.1  
5841 10. 204122.7 -1248.0  
5842 10. 204135.2 -1245.0  
5843 9.3 204136.1 -1211.0  
5844 9.4 204139.3 -1200.6  
  
5845 9.4 204208.6 -1204.3  
5846 9.3 204225.7 -1217.5  
5847 9.5 204231.1 -1200.7  
5848 9.1 204242.0 -1226.4  
5849 9.3 204246.9 -1206.8  
5850 9.2 204247.2 -1247.5  
5851 9.9 204307.7 -1225.3  
5852 9.4 204321.1 -1207.2  
5853 9.6 204408.5 -1218.4  
5854 6.5 204509.1 -1207.0  
  
5855 9.0 204532.9 -1238.2  
5856 9.9 204542.2 -1222.9  
5857 8.4 204544.1 -1212.0  
5858 8.3 204600.3 -1250.3  
5859 9.5 204612.7 -1223.7  
5860 9.9 204618.2 -1213.6  
5861 9.5 204624.1 -1208.2  
5862 10. 204703.3 -1227.5  
5863 9.7 204706.5 -1232.2  
5864 9.2 204732.8 -1237.6  
  
5865 8.6 204735.1 -1220.4  
5866 9.5 204801.0 -1216.5  
5867 9.8 204802.8 -1254.5  
5868 9.7 204804.0 -1257.9  
5869 8.8 204805.7 -1208.9  
5870 9.7 204813.0 -1243.6  
5871 9.5 204903.0 -1238.3  
5872 9.4 204908.0 -1201.4  
5873 10. 204937.1 -1205.2  
5874 9.8 204947.9 -1225.5  
  
5875 9.8 205000.0 -1219.1  
5876 7.1 205005.9 -1230.8  
5877 8.8 205009.1 -1257.4  
5878 9.1 205011.6 -1258.9  
5879 9.5 205027.9 -1215.1  
5880 10. 205044.9 -1247.2  
5881 9.8 205056.1 -1231.7  
5882 9.2 205106.3 -1203.2  
5883 9.9 205129.1 -1226.2  
5884 9.7 205149.2 -1230.8  
  
5885 9.6 205259.2 -1207.5  
5886 8.5 205306.9 -1202.0  
5887 9.4 205343.3 -1253.6  
5888 9.8 205348.1 -1251.7  
5889 10. 205403.6 -1246.6  
5890 7.0 205405.3 -1215.8  
5891 9.5 205415.6 -1258.7  
5892 9.6 205420.6 -1244.3  
5893 9.5 205424.6 -1220.1  
5894 9.4 205500.4 -1229.3  
  
5895 9.5 205522.9 -1247.7  
5896 9.1 205532.9 -1226.7  
5897 9.1 205549.6 -1232.6  
5898 9.2 205617.3 -1232.0  
5899 9.4 205630.3 -1214.5  
5900 9.8 205642.2 -1241.0  
5901 9.7 205701.2 -1258.6  
5902 9.8 205703.7 -1205.8  
5903 9.9 205712.2 -1229.0  
5904 9.6 205728.6 -1250.2

5905 9.9 205752.8 -1230.0  
5906 9.8 205820.8 -1234.6  
5907 8.3 205835.5 -1232.0  
5908 9.5 205836.7 -1245.4  
5909 10. 205925.2 -1245.4  
5910 9.9 205945.4 -1206.8  
5911 9.0 205956.8 -1246.2  
5912 9.5 210000.8 -1205.5  
5913 9.0 210003.0 -1216.5  
5914 9.3 210026.8 -1236.3  
  
5915 9.2 210108.4 -1254.0  
5916 10. 210120.8 -1249.9  
5917 10. 210137.7 -1255.3  
5918 9.0 210139.4 -1211.2  
5919 9.2 210151.4 -1231.7  
5920 9.2 210206.3 -1207.0  
5921 9.0 210226.4 -1252.1  
5922 10. 210227.8 -1237.9  
5923 10. 210229.1 -1242.8  
5924 9.8 210238.5 -1235.3  
  
5925 9.1 210252.8 -1258.4  
5926 8.2 210254.6 -1219.0  
5927 8.6 210338.5 -1207.5  
5928 8.9 210404.4 -1206.1  
5929 9.6 210413.9 -1230.9  
5930 9.6 210420.3 -1227.4  
5931 8.9 210426.1 -1230.5  
5932 9.0 210432.2 -1224.4  
5933 9.0 210432.6 -1220.7  
5934 9.9 210439.4 -1206.4  
  
5935 9.0 210508.5 -1208.6  
5936 9.5 210548.9 -1244.5  
5937 9.8 210550.4 -1203.1  
5938 8.7 210555.8 -1232.7  
5939 9.5 210610.2 -1230.5  
5940 9.5 210610.7 -1233.0  
5941 9.1 210617.4 -1241.1  
5942 10. 210635.7 -1229.8  
5943 9.8 210639.4 -1242.4  
5944 9.8 210644.7 -1226.3  
  
5945 9.6 210649.6 -1216.9  
5946 9.7 210650.2 -1228.1  
5947 9.7 210711.1 -1227.1  
5948 9.6 210719.9 -1204.9  
5949 9.8 210730.9 -1259.0  
5950 9.1 210733.3 -1241.2  
5951 10. 210802.5 -1203.2  
5952 9.7 210845.9 -1229.7  
5953 9.5 210905.0 -1200.1  
5954 9.5 210958.7 -1217.0  
  
5955 9.8 211004.1 -1236.3  
5956 9.8 211011.7 -1251.6  
5957 10. 211029.8 -1233.5  
5958 8.0 211035.7 -1252.0  
5959 9.7 211042.4 -1232.9  
5960 9.5 211110.7 -1232.1  
5961 9.4 211120.1 -1231.2  
5962 8.8 211136.8 -1256.9  
5963 9.2 211201.7 -1240.0  
5964 10. 211207.2 -1253.3  
  
5965 8.2 211208.7 -1225.5  
5966 9.0 211300.8 -1217.0  
5967 9.3 211313.8 -1218.0  
5968 9.5 211314.1 -1207.5  
5969 9.8 211321.8 -1220.7  
5970 9.0 211330.0 -1255.2  
5971 9.0 211330.4 -1256.2  
5972 7.9 211337.6 -1204.2  
5973 9.8 211343.7 -1247.1  
5974 9.0 211343.9 -1215.1  
  
5975 9.9 211351.7 -1210.8  
5976 9.2 211355.8 -1258.5  
5977 9.7 211403.8 -1217.7  
5978 9.1 211514.3 -1216.2  
5979 9.8 211529.8 -1247.1  
5980 9.4 211540.2 -1233.1  
5981 8.2 211548.3 -1240.2  
5982 9.8 211555.7 -1208.2  
5983 9.8 211601.2 -1205.2  
5984 9.8 211644.1 -1206.3  
  
5985 9.1 211648.1 -1224.1  
5986 9.8 211654.4 -1255.8  
5987 9.4 211657.3 -1212.7  
5988 10. 211658.7 -1201.6  
5989 10. 211756.8 -1215.5  
5990 9.6 211757.9 -1216.8  
5991 9.7 211811.5 -1230.2  
5992 9.1 211815.7 -1203.6  
5993 9.4 211831.6 -1216.5  
5994 7.5 211832.4 -1242.1

5995 9.3 211837.4 -1238.9  
5996 9.7 211908.4 -1220.1  
5997 8.8 211931.4 -1252.6  
5998 7.3 211946.5 -1217.4  
5999 10. 211952.0 -1221.4  
6000 9.4 212007.6 -1227.0  
6001 8.5 212012.6 -1233.3  
6002 9.1 212015.4 -1242.6  
6003 8.8 212018.9 -1223.8  
6004 9.8 212019.3 -1217.4  
  
6005 7.0 212021.8 -1211.7  
6006 9.8 212024.7 -1203.0  
6007 9.8 212114.3 -1207.0  
6008 8.7 212136.5 -1242.5  
6009 9.6 212146.2 -1205.4  
6010 9.5 212200.5 -1233.6  
6011 10. 212218.9 -1221.8  
6012 9.7 212220.8 -1229.9  
6013 10. 212240.6 -1251.2  
6014 9.4 212243.8 -1207.6  
  
6015 9.6 212247.2 -1253.3  
6016 9.7 212252.6 -1225.4  
6017 9.1 212258.5 -1200.1  
6018 8.5 212343.7 -1234.4  
6019 9.3 212345.4 -1202.4  
6020 10. 212357.5 -1225.3  
6021 9.5 212404.6 -1223.2  
6022 9.6 212408.8 -1208.9  
6023 9.9 212412.1 -1200.1  
6024 9.7 212426.6 -1212.3  
  
6025 9.8 212426.6 -1242.5  
6026 7.0 212429.5 -1253.9  
6027 9.2 212435.0 -1222.7  
6028 9.4 212542.1 -1219.5  
6029 8.7 212603.3 -1246.4  
6030 8.9 212608.7 -1225.0  
6031 9.5 212626.4 -1252.0  
6032 9.1 212631.1 -1258.0  
6033 9.5 212725.9 -1202.6  
6034 10. 212741.7 -1225.7  
  
6035 8.4 212743.3 -1225.9  
6036 9.8 212826.5 -1251.3  
6037 9.8 212835.2 -1212.5  
6038 9.8 212845.6 -1203.7  
6039 9.1 212858.5 -1230.0  
6040 9.5 212901.3 -1213.6  
6041 9.1 212908.0 -1203.6  
6042 9.7 212922.1 -1224.1  
6043 10. 212929.2 -1227.7  
6044 7.7 212930.1 -1206.3  
  
6045 9.5 212933.2 -1238.1  
6046 9.3 213017.1 -1249.4  
6047 9.2 213020.2 -1257.5  
6048 8.3 213025.7 -1241.3  
6049 9.8 213046.6 -1241.0  
6050 10. 213048.3 -1253.1  
6051 9.9 213050.2 -1218.4  
6052 9.8 213051.2 -1205.4  
6053 10. 213102.8 -1256.7  
6054 9.3 213123.7 -1253.9  
  
6055 10. 213139.6 -1212.8  
6056 9.8 213150.7 -1211.9  
6057 9.3 213236.0 -1204.2  
6058 9.8 213248.8 -1253.0  
6059 9.4 213334.5 -1244.3  
6060 9.1 213334.8 -1224.9  
6061 9.5 213338.6 -1207.7  
6062 8.9 213352.2 -1223.1  
6063 9.5 213357.6 -1215.3  
6064 9.5 213405.3 -1218.8  
  
6065 8.0 213409.8 -1254.1  
6066 9.8 213415.7 -1240.5  
6067 9.8 213416.4 -1210.0  
6068 9.3 213420.9 -1254.4  
6069 9.4 213423.4 -1215.3  
6070 9.3 213423.5 -1221.1  
6071 9.5 213438.8 -1234.5  
6072 9.7 213439.3 -1236.1  
6073 9.7 213443.3 -1218.9  
6074 8.9 213446.4 -1241.8  
  
6075 9.0 213452.7 -1238.7  
6076 9.2 213538.9 -1255.0  
6077 9.8 213543.3 -1212.0  
6078 9.3 213626.8 -1221.2  
6079 8.7 213631.0 -1224.3  
6080 8.7 213634.3 -1226.1  
6081 9.5 213648.3 -1238.1  
6082 9.5 213708.1 -1204.4  
6083 9.6 213722.4 -1247.5  
6084 9.8 213738.8 -1219.1

6085 9.6 213801.4 -1255.8  
6086 9.4 213824.3 -1239.4  
6087 5.5 213843.6 -1201.8  
6088 7.3 213852.4 -1221.7  
6089 8.9 213858.7 -1236.0  
6090 10. 213901.3 -1227.4  
6091 9.2 213931.6 -1238.7  
6092 9.8 213949.5 -1257.9  
6093 10. 214001.6 -1219.9  
6094 9.1 214011.5 -1218.3  
  
6095 8.7 214014.9 -1248.9  
6096 9.2 214016.9 -1250.2  
6097 9.8 214019.0 -1234.4  
6098 9.4 214019.9 -1227.2  
6099 9.8 214039.4 -1217.5  
6100 9.5 214116.8 -1226.0  
6101 10. 214128.6 -1201.6  
6102 10. 214159.5 -1220.4  
6103 8.3 214216.6 -1216.8  
6104 8.2 214224.0 -1200.7  
  
6105 9.8 214227.5 -1253.6  
6106 9.7 214301.3 -1201.4  
6107 9.4 214306.1 -1252.2  
6108 10. 214309.0 -1259.1  
6109 9.8 214319.5 -1253.5  
6110 10. 214332.9 -1232.4  
6111 9.8 214334.8 -1200.1  
6112 8.8 214337.0 -1253.9  
6113 9.1 214341.4 -1219.6  
6114 9.5 214342.0 -1248.9  
  
6115 9.2 214426.1 -1235.7  
6116 9.6 214430.5 -1257.0  
6117 9.0 214457.8 -1212.6  
6118 9.8 214512.0 -1254.4  
6119 8.8 214513.1 -1200.1  
6120 9.3 214609.1 -1245.7  
6121 9.8 214609.1 -1242.8  
6122 8.8 214628.8 -1202.6  
6123 9.2 214635.0 -1202.6  
6124 9.1 214638.1 -1221.5  
  
6125 9.6 214700.6 -1201.1  
6126 8.0 214712.5 -1239.0  
6127 9.1 214810.1 -1239.3  
6128 10. 214817.4 -1236.1  
6129 9.8 214845.8 -1206.4  
6130 9.1 214906.2 -1253.7  
6131 10. 214923.7 -1252.5  
6132 9.5 214947.6 -1214.2  
6133 9.6 214950.4 -1245.2  
6134 8.3 214952.9 -1247.5  
  
6135 9.5 215033.4 -1235.1  
6136 9.8 215036.2 -1219.9  
6137 8.9 215046.6 -1240.2  
6138 10. 215106.7 -1253.3  
6139 10. 215117.6 -1256.3  
6140 9.7 215120.5 -1230.8  
6141 9.8 215131.3 -1221.1  
6142 10. 215149.3 -1227.2  
6143 8.9 215223.9 -1254.8  
6144 9.3 215228.8 -1216.1  
  
6145 9.5 215233.7 -1241.1  
6146 9.2 215239.3 -1206.2  
6147 8.8 215257.6 -1207.1  
6148 10. 215304.9 -1246.4  
6149 9.7 215319.8 -1225.6  
6150 8.6 215326.0 -1202.2  
6151 9.8 215330.8 -1208.7  
6152 9.0 215352.2 -1240.7  
6153 9.1 215353.3 -1241.1  
6154 10. 215400.6 -1258.5  
  
6155 9.8 215413.8 -1207.5  
6156 9.5 215416.2 -1240.9  
6157 9.5 215454.7 -1211.2  
6158 9.4 215457.9 -1254.3  
6159 9.2 215510.3 -1215.9  
6160 9.2 215516.3 -1208.9  
6161 9.1 215529.3 -1210.7  
6162 10. 215535.5 -1238.8  
6163 9.7 215539.7 -1202.0  
6164 9.4 215559.2 -1246.3  
  
6165 9.8 215615.3 -1211.6  
6166 9.8 215615.4 -1206.0  
6167 9.4 215621.3 -1213.8  
6168 10. 215633.5 -1256.6  
6169 9.1 215642.6 -1206.9  
6170 9.4 215659.4 -1209.6  
6171 10. 215702.5 -1256.6  
6172 9.6 215706.1 -1230.5  
6173 9.4 215722.9 -1250.6  
6174 9.5 215806.8 -1236.5

-12 6174 21h58m



-12 6175 21h58m

6175 9.6 215807.6 -1239.2  
6176 9.4 215810.4 -1221.0  
6177 9.8 215845.4 -1214.3  
6178 9.8 215854.0 -1207.0  
6179 10. 220003.0 -1207.9  
6180 9.8 220003.0 -1249.4  
6181 9.9 220014.7 -1241.2  
6182 9.4 220019.5 -1209.5  
6183 9.4 220020.4 -1235.5  
6184 9.3 220031.6 -1235.4  
  
6185 7.8 220049.0 -1219.3  
6186 9.8 220056.4 -1203.0  
6187 9.8 220056.5 -1238.5  
6188 9.8 220103.2 -1250.1  
6189 9.6 220126.3 -1225.7  
6190 9.2 220128.1 -1227.4  
6191 8.2 220132.4 -1204.3  
6192 9.5 220146.5 -1215.5  
6193 9.8 220146.6 -1254.4  
6194 9.5 220220.3 -1225.7  
  
6195 9.8 220224.8 -1205.8  
6196 5.7 220251.6 -1216.3  
6197 8.9 220300.8 -1223.1  
6198 9.4 220307.2 -1216.1  
6199 9.8 220319.8 -1240.7  
6200 10. 220342.4 -1222.7  
6201 9.0 220351.3 -1203.9  
6202 9.9 220413.2 -1248.8  
6203 10. 220420.5 -1202.6  
6204 9.0 220428.2 -1218.9  
  
6205 9.1 220454.8 -1208.0  
6206 9.7 220503.2 -1231.4  
6207 9.1 220520.1 -1252.3  
6208 9.5 220534.7 -1249.4  
6209 7.0 220540.4 -1238.4  
6210 9.0 220549.5 -1200.7  
6211 9.9 220606.7 -1256.6  
6212 9.0 220610.5 -1218.7  
6213 10. 220614.1 -1219.6  
6214 9.4 220616.6 -1251.6  
  
6215 10. 220619.7 -1254.1  
6216 10. 220635.2 -1258.7  
6217 10. 220636.0 -1204.4  
6218 8.2 220645.2 -1258.3  
6219 9.2 220654.6 -1202.0  
6220 9.6 220705.0 -1212.7  
6221 10. 220758.8 -1225.1  
6222 9.4 220810.5 -1220.3  
6223 9.2 220832.3 -1257.9  
6224 9.0 220844.4 -1223.2  
  
6225 10. 220858.8 -1230.2  
6226 9.9 220859.6 -1249.3  
6227 7.5 220900.8 -1221.8  
6228 9.6 220920.1 -1205.8  
6229 9.8 220941.0 -1206.0  
6230 9.4 220947.8 -1238.6  
6231 9.0 220953.3 -1257.5  
6232 9.5 221003.0 -1206.2  
6233 9.5 221046.4 -1248.9  
6234 9.7 221050.0 -1229.4  
  
6235 9.3 221051.3 -1249.2  
6236 8.0 221111.2 -1216.6  
6237 9.7 221115.7 -1200.9  
6238 9.7 221117.5 -1202.4  
6239 10. 221140.4 -1229.1  
6240 8.7 221149.9 -1238.3  
6241 9.9 221216.2 -1204.2  
6242 9.5 221228.4 -1243.4  
6243 8.2 221231.4 -1256.8  
6244 9.2 221232.1 -1238.5  
  
6245 9.3 221251.9 -1239.4  
6246 9.0 221256.4 -1259.2  
6247 9.2 221257.2 -1245.6  
6248 9.6 221316.4 -1227.9  
6249 9.3 221320.3 -1229.2  
6250 9.8 221328.3 -1207.1  
6251 9.1 221337.9 -1254.9  
6252 9.2 221341.5 -1244.2  
6253 9.8 221350.5 -1221.4  
6254 9.4 221426.4 -1257.4  
  
6255 9.8 221543.5 -1229.5  
6256 9.8 221548.6 -1220.0  
6257 10. 221554.2 -1206.2  
6258 9.5 221602.3 -1242.3  
6259 9.6 221651.8 -1218.4  
6260 8.5 221707.3 -1207.4  
6261 9.6 221716.4 -1202.1  
6262 9.0 221738.8 -1248.6  
6263 10. 221746.9 -1259.6  
6264 8.5 221747.3 -1238.6

6265 10. 221754.4 -1202.3  
6266 9.8 221759.3 -1211.0  
6267 9.5 221809.1 -1224.8  
6268 9.5 221814.8 -1255.7  
6269 8.3 221829.3 -1247.1  
6270 9.8 221848.2 -1233.2  
6271 8.3 221907.4 -1204.9  
6272 9.0 221914.8 -1239.2  
6273 9.8 221924.3 -1229.6  
6274 8.5 222023.9 -1237.4  
  
6275 8.8 222049.4 -1205.9  
6276 9.7 222051.4 -1256.0  
6277 9.1 222103.9 -1258.2  
6278 8.8 222110.4 -1225.9  
6279 10. 222112.4 -1247.5  
6280 9.8 222134.9 -1224.7  
6281 9.0 222140.9 -1209.0  
6282 9.0 222158.9 -1215.7  
6283 9.8 222201.4 -1257.5  
6284 8.8 222203.6 -1227.3  
  
6285 9.1 222204.7 -1215.7  
6286 9.5 222310.4 -1201.9  
6287 9.8 222324.0 -1243.1  
6288 9.3 222341.5 -1254.5  
6289 10. 222355.0 -1259.4  
6290 9.7 222404.5 -1244.5  
6291 9.8 222410.0 -1217.8  
6292 9.5 222449.5 -1241.5  
6293 9.6 222518.7 -1225.1  
6294 10. 222536.3 -1225.1  
  
6295 9.3 222548.0 -1259.8  
6296 9.3 222556.0 -1216.9  
6297 10. 222600.0 -1210.3  
6298 9.5 222604.5 -1249.6  
6299 9.0 222622.5 -1254.0  
6300 9.4 222646.3 -1202.4  
6301 9.8 222647.6 -1215.5  
6302 9.1 222656.8 -1207.5  
6303 9.2 222657.6 -1248.8  
6304 9.9 222706.1 -1242.5  
  
6305 9.8 222710.1 -1206.8  
6306 9.6 222805.8 -1233.0  
6307 9.2 222817.6 -1220.7  
6308 9.3 222837.0 -1247.1  
6309 9.4 222839.1 -1233.0  
6310 10. 222842.6 -1201.5  
6311 9.7 222845.4 -1231.0  
6312 9.8 222903.1 -1230.2  
6313 9.8 222909.1 -1248.9  
6314 9.1 222909.8 -1257.5  
  
6315 7.7 222924.0 -1228.6  
6316 9.5 222928.6 -1218.3  
6317 9.5 222945.6 -1247.2  
6318 9.4 222948.6 -1212.7  
6319 9.6 223037.5 -1230.8  
6320 9.9 223048.8 -1201.6  
6321 10. 223138.4 -1251.1  
6322 9.9 223239.9 -1246.8  
6323 8.3 223241.0 -1221.4  
6324 9.7 223245.7 -1245.5  
  
6325 10. 223248.7 -1251.5  
6326 9.4 223256.1 -1230.9  
6327 7.2 223344.7 -1258.9  
6328 9.3 223423.1 -1219.7  
6329 9.8 223423.3 -1250.7  
6330 9.3 223430.7 -1215.6  
6331 9.9 223440.3 -1241.9  
6332 9.1 223504.4 -1233.9  
6333 9.2 223520.1 -1212.3  
6334 9.3 223608.6 -1231.0  
  
6335 10. 223610.2 -1258.2  
6336 8.7 223610.7 -1215.0  
6337 9.4 223614.4 -1208.0  
6338 9.3 223628.8 -1253.3  
6339 10. 223807.3 -1246.4  
6340 9.3 223822.4 -1256.2  
6341 9.4 223826.9 -1256.2  
6342 8.3 223827.9 -1217.8  
6343 8.5 223829.4 -1254.8  
6344 9.5 223902.4 -1245.0  
  
6345 9.7 223909.1 -1219.6  
6346 9.8 223921.0 -1231.2  
6347 10. 223932.2 -1202.2  
6348 9.8 223943.6 -1204.2  
6349 9.5 223946.7 -1208.1  
6350 9.5 224004.2 -1210.5  
6351 9.2 224021.8 -1236.2  
6352 9.6 224031.3 -1201.5  
6353 8.9 224108.0 -1235.6  
6354 9.5 224109.5 -1259.5

6355 9.3 224110.1 -1224.7  
6356 9.5 224126.0 -1244.4  
6357 7.8 224147.8 -1207.0  
6358 9.3 224213.3 -1213.7  
6359 9.6 224326.9 -1207.3  
6360 9.9 224328.8 -1226.7  
6361 9.4 224333.9 -1207.2  
6362 10. 224339.8 -1206.9  
6363 9.5 224346.3 -1249.5  
6364 9.0 224357.2 -1248.0  
  
6365 9.3 224444.4 -1200.8  
6366 10. 224455.0 -1243.9  
6367 9.1 224510.1 -1224.7  
6368 9.6 224516.3 -1245.9  
6369 9.2 224516.8 -1234.7  
6370 9.3 224530.8 -1232.7  
6371 5.9 224550.4 -1222.8  
6372 9.7 224620.3 -1205.6  
6373 10. 224624.1 -1238.5  
6374 7.0 224628.1 -1257.5  
  
6375 9.7 224653.6 -1228.2  
6376 9.8 224656.5 -1205.4  
6377 9.6 224657.6 -1215.8  
6378 9.7 224706.9 -1209.9  
6379 9.9 224717.2 -1237.3  
6380 9.5 224819.0 -1212.3  
6381 9.1 224827.7 -1255.4  
6382 9.7 224846.2 -1244.5  
6383 9.9 224848.0 -1208.9  
6384 9.3 224903.8 -1205.9  
  
6385 10. 224907.9 -1203.3  
6386 10. 224928.2 -1256.6  
6387 9.7 224941.4 -1201.5  
6388 9.5 224956.8 -1201.0  
6389 9.3 225029.3 -1256.4  
6390 9.3 225133.8 -1228.5  
6391 9.7 225210.2 -1205.3  
6392 9.6 225212.3 -1242.3  
6393 9.7 225215.7 -1209.4  
6394 9.5 225237.3 -1245.4  
  
6395 9.4 225302.2 -1252.6  
6396 9.0 225341.1 -1203.5  
6397 10. 225349.9 -1247.5  
6398 9.0 225352.3 -1251.8  
6399 9.8 225405.9 -1221.0  
6400 9.2 225433.7 -1206.5  
6401 10. 225436.1 -1234.2  
6402 8.5 225446.8 -1205.2  
6403 9.3 225450.3 -1202.7  
6404 8.0 225455.8 -1202.7  
  
6405 9.1 225506.0 -1200.9  
6406 9.7 225519.9 -1231.5  
6407 9.5 225520.6 -1240.1  
6408 10. 225520.7 -1212.7  
6409 9.4 225538.4 -1226.3  
6410 9.4 225555.9 -1241.2  
6411 9.5 225636.4 -1246.4  
6412 9.2 225646.0 -1249.0  
6413 8.5 225651.7 -1257.3  
6414 9.5 225653.6 -1230.3  
  
6415 9.7 225709.7 -1227.8  
6416 9.7 225711.0 -1222.3  
6417 9.7 225712.5 -1223.2  
6418 9.5 225733.9 -1203.2  
6419 9.2 225754.6 -1211.9  
6420 9.8 225809.5 -1248.2  
6421 9.6 225822.0 -1258.0  
6422 9.6 225835.4 -1240.8  
6423 9.2 225842.7 -1220.6  
6424 9.5 225910.0 -1254.7  
  
6425 9.1 225937.9 -1238.1  
6426 7.8 225947.9 -1235.3  
6427 10. 230009.4 -1233.7  
6428 9.6 230014.9 -1224.6  
6429 8.5 230044.9 -1222.8  
6430 9.5 230045.0 -1235.1  
6431 9.6 230049.1 -1224.5  
6432 9.6 230113.5 -1221.4  
6433 9.0 230203.6 -1249.6  
6434 10. 230206.0 -1219.6  
  
6435 9.0 230209.5 -1252.2  
6436 9.2 230235.1 -1227.6  
6437 9.3 230238.6 -1227.5  
6438 9.0 230245.5 -1216.0  
6439 9.5 230259.6 -1230.0  
6440 10. 230309.5 -1208.2  
6441 10. 230321.3 -1250.4  
6442 10. 230351.8 -1229.9  
6443 9.7 230353.7 -1238.4  
6444 6.9 230425.0 -1243.0

6445 10. 230453.6 -1215.6  
6446 9.5 230511.3 -1256.1  
6447 10. 230529.6 -1218.4  
6448 9.5 230555.6 -1208.0  
6449 9.1 230602.8 -1232.4  
6450 9.2 230630.5 -1225.3  
6451 9.5 230658.4 -1230.3  
6452 10. 230728.7 -1252.1  
6453 7.7 230747.1 -1221.4  
6454 7.9 230801.8 -1225.5  
  
6455 9.7 230819.2 -1244.4  
6456 9.1 230840.6 -1239.0  
6457 9.2 230908.7 -1245.7  
6458 10. 230911.9 -1216.5  
6459 9.4 230930.8 -1231.6  
6460 9.8 230936.6 -1232.9  
6461 6.3 231006.2 -1229.9  
6462 8.5 231019.9 -1203.3  
6463 9.5 231031.2 -1232.2  
6464 9.8 231036.8 -1206.1  
  
6465 9.3 231114.3 -1256.3  
6466 8.9 231119.5 -1235.6  
6467 9.6 231123.4 -1204.5  
6468 7.2 231127.9 -1257.6  
6469 9.4 231201.7 -1253.0  
6470 10. 231230.8 -1214.4  
6471 9.8 231233.9 -1205.8  
6472 9.8 231428.4 -1232.9  
6473 9.9 231439.4 -1251.7  
6474 9.8 231453.6 -1209.1  
  
6475 9.5 231457.6 -1213.8  
6476 9.6 231517.2 -1225.6  
6477 9.9 231538.0 -1206.8  
6478 9.4 231559.6 -1217.1  
6479 9.9 231605.4 -1242.2  
6480 9.5 231624.9 -1243.3  
6481 9.8 231630.6 -1222.5  
6482 9.1 231727.9 -1239.0  
6483 10. 231742.7 -1202.6  
6484 9.5 231804.9 -1236.8  
  
6485 9.1 231815.3 -1224.7  
6486 9.8 231828.9 -1259.4  
6487 9.3 231844.0 -1225.9  
6488 9.5 231916.7 -1231.4  
6489 9.5 231918.7 -1240.0  
6490 9.1 231919.6 -1220.3  
6491 9.6 231932.7 -1216.2  
6492 9.5 231937.0 -1253.9  
6493 9.5 231947.1 -1259.8  
6494 9.8 231954.0 -1257.5  
  
6495 10. 232006.6 -1205.8  
6496 6.3 232031.8 -1214.8  
6497 9.4 232035.2 -1232.3  
6498 9.5 232025.3 -1209.0  
6499 9.4 232039.8 -1241.7  
6500 9.8 232042.7 -1233.9  
6501 9.5 232043.6 -1245.4  
6502 9.2 232220.0 -1242.2  
6503 9.8 232303.3 -1234.2  
6504 9.5 232330.2 -1206.7  
  
6505 8.3 232345.8 -1259.6  
6506 9.5 232402.2 -1240.5  
6507 9.6 232412.5 -1229.0  
6508 7.5 232419.7 -1244.6  
6509 9.0 232438.7 -1246.2  
6510 6.7 232442.7 -1220.5  
6511 9.8 232442.7 -1206.5  
6512 9.4 232450.6 -1229.6  
6513 9.0 232507.3 -1207.6  
6514 8.6 232527.6 -1207.0  
  
6515 9.5 232528.4 -1213.9  
6516 9.8 232544.4 -1218.3  
6517 9.8 232612.9 -1247.0  
6518 10. 232617.8 -1213.6  
6519 10. 232619.8 -1233.2  
6520 9.2 232624.4 -1220.1  
6521 9.8 232628.4 -1247.6  
6522 9.8 232658.6 -1210.7  
6523 8.0 232742.5 -1222.8  
6524 9.4 232819.6 -1251.4  
  
6525 9.2 232831.5 -1226.4  
6526 9.7 232937.5 -1242.7  
6527 9.3 232953.5 -1221.5  
6528 9.8 233006.1 -1256.8  
6529 9.7 233009.5 -1216.1  
6530 10. 233011.0 -1217.0  
6531 8.6 233136.5 -1220.9  
6532 8.8 233204.1 -1245.3  
6533 9.4 233256.6 -1245.3  
6534 9.1 233330.1 -1216.2

-12 6534 23h33m



6535 6.1 233338.2 -1229.1  
 6536 9.5 233346.9 -1221.3  
 6537 9.9 233347.2 -1203.9  
 6538 9.2 233356.6 -1215.9  
 6539 9.2 233359.4 -1245.9  
 6540 9.6 233404.2 -1234.0  
 6541 9.5 233428.1 -1216.8  
 6542 7.4 233518.1 -1208.1  
 6543 10.1 233523.7 -1219.2  
 6544 9.5 233526.9 -1229.1

6545 9.9 233527.6 -1225.2  
 6546 9.8 233531.2 -1206.0  
 6547 9.5 233552.1 -1210.0  
 6548 9.9 233556.7 -1215.2  
 6549 10.1 233617.7 -1203.2  
 6550 9.5 233625.3 -1220.0  
 6551 9.4 233632.6 -1231.6  
 6552 9.5 233645.8 -1225.0  
 6553 10.1 233741.1 -1202.6  
 6554 9.2 233816.3 -1222.0

6555 9.9 233840.7 -1216.0  
 6556 9.3 233903.8 -1221.5  
 6557 9.5 233906.6 -1245.2  
 6558 9.1 233924.4 -1233.4  
 6559 6.0 233947.3 -1242.8  
 6560 9.2 233951.8 -1244.8  
 6561 9.5 234009.1 -1229.8  
 6562 9.3 234009.3 -1214.3  
 6563 9.2 234024.8 -1211.4  
 6564 9.5 234042.3 -1243.6

6565 8.0 234059.8 -1218.7  
 6566 8.8 234110.8 -1234.6  
 6567 9.1 234122.9 -1216.2  
 6568 10.1 234135.3 -1201.4  
 6569 10.1 234211.9 -1219.7  
 6570 9.6 234217.5 -1223.3  
 6571 8.5 234313.1 -1225.0  
 6572 9.8 234320.4 -1237.0  
 6573 9.5 234329.6 -1240.4  
 6574 10.1 234400.0 -1240.6

6575 10.1 234404.0 -1229.3  
 6576 9.6 234412.7 -1258.2  
 6577 9.6 234417.3 -1207.3  
 6578 8.5 234441.9 -1231.5  
 6579 7.3 234520.1 -1249.3  
 6580 9.5 234546.0 -1209.5  
 6581 9.5 234552.8 -1259.8  
 6582 9.0 234602.5 -1245.7  
 6583 9.5 234608.4 -1203.7  
 6584 9.1 234624.6 -1222.6

6585 9.3 234734.5 -1247.3  
 6586 8.6 234800.1 -1245.8  
 6587 9.2 234802.8 -1212.6  
 6588 9.0 234834.0 -1202.0  
 6589 10.1 234842.0 -1220.0  
 6590 9.8 234916.1 -1229.6  
 6591 9.2 234956.0 -1203.2  
 6592 7.8 235049.6 -1215.9  
 6593 8.6 235114.4 -1229.7  
 6594 8.0 235135.7 -1244.6

6595 9.2 235143.4 -1213.3  
 6596 9.3 235238.3 -1250.4  
 6597 10.1 235319.3 -1233.4  
 6598 8.2 235329.7 -1237.9  
 6599 8.7 235345.8 -1246.4  
 6600 8.7 235448.3 -1246.4  
 6601 9.8 235551.8 -1236.5  
 6602 8.3 235555.6 -1244.8  
 6603 9.6 235630.2 -1211.0  
 6604 9.5 235638.3 -1240.2

6605 9.4 235638.4 -1235.7  
 6606 9.5 235643.0 -1241.6  
 6607 9.6 235649.2 -1201.2  
 6608 9.2 235731.9 -1227.6  
 6609 8.7 235802.4 -1239.0  
 6610 10.1 235838.5 -1229.1  
 6611 8.5 235854.4 -1249.1  
 6612 10.1 235915.4 -1219.8  
 6613 9.1 235920.9 -1258.2  
 6614 10.1 235928.6 -1247.0

6615 9.7 235949.0 -1231.2  
 6616 9.4 235953.6 -1256.6  
 6617 7.6 235959.1 -1225.3  
 1 9.7 00013.4 -1306.6  
 2 9.4 00025.4 -1317.2  
 3 9.6 00049.4 -1327.5  
 4 10.1 00107.9 -1354.5  
 5 9.8 00109.4 -1329.9  
 6 10.1 00113.8 -1303.0  
 7 9.3 00136.4 -1316.4

8 9.3 00201.9 -1325.2  
 9 10.1 00215.9 -1316.9  
 10 9.4 00216.1 -1313.1  
 11 9.6 00231.4 -1350.0  
 12 9.2 00252.5 -1312.3  
 13 6.0 00317.4 -1323.2  
 14 9.1 00317.7 -1301.1  
 15 9.3 00328.4 -1342.8  
 16 9.4 00343.6 -1333.0  
 17 9.5 00357.8 -1359.8

18 8.9 00402.4 -1350.2  
 19 9.6 00428.3 -1300.5  
 20 10.1 00445.4 -1350.9  
 21 10.1 00449.9 -1323.7  
 22 9.6 00458.3 -1300.2  
 23 9.7 00507.0 -1328.6  
 24 9.5 00523.0 -1324.1  
 25 9.7 00619.9 -1300.2  
 26 9.7 00638.9 -1344.6  
 27 9.0 00651.5 -1307.5

28 9.8 00655.6 -1324.1  
 29 9.4 00657.6 -1316.1  
 30 9.7 00716.2 -1356.4  
 31 7.3 00717.8 -1333.3  
 32 9.4 00738.4 -1351.6  
 33 9.8 00754.5 -1342.0  
 34 8.8 00800.1 -1323.4  
 35 8.3 00801.7 -1351.5  
 36 9.3 00805.0 -1342.4  
 37 9.0 00807.0 -1356.3

38 9.5 00813.4 -1341.3  
 39 9.2 00842.3 -1314.6  
 40 8.7 00940.7 -1352.0  
 41 9.8 01011.7 -1346.8  
 42 9.7 01026.9 -1317.9  
 43 9.6 01028.7 -1310.6  
 44 9.5 01048.4 -1326.3  
 45 9.2 01056.5 -1342.8  
 46 9.8 01104.4 -1359.0  
 47 9.6 01124.6 -1305.8

48 10.1 01125.5 -1322.8  
 49 9.8 01137.5 -1331.6  
 50 9.5 01140.2 -1310.2  
 51 8.0 01225.3 -1309.7  
 52 6.8 01247.9 -1352.2  
 53 9.8 01345.7 -1313.7  
 54 9.8 01403.3 -1350.0  
 55 9.2 01405.2 -1358.0  
 56 9.5 01442.2 -1310.8  
 57 9.6 01501.8 -1309.3

58 9.3 01502.8 -1344.0  
 59 9.0 01511.7 -1306.2  
 60 6.5 01526.1 -1300.6  
 61 9.2 01535.5 -1338.8  
 62 9.8 01546.7 -1318.3  
 63 8.0 01551.6 -1358.1  
 64 9.2 01648.0 -1352.9  
 65 10.1 01712.9 -1343.4  
 66 9.3 01716.7 -1302.7  
 67 9.8 01812.4 -1359.9

68 9.9 01829.5 -1346.0  
 69 8.5 01845.0 -1352.7  
 70 9.3 01852.1 -1310.8  
 71 10.1 01914.8 -1331.8  
 72 9.5 01921.9 -1334.5  
 73 9.2 01923.4 -1307.7  
 74 9.7 01927.9 -1336.3  
 75 9.0 01941.7 -1330.2  
 76 9.8 01951.5 -1315.3  
 77 9.3 01953.1 -1350.0

78 9.5 02010.2 -1326.1  
 79 10.1 02047.0 -1339.4  
 80 9.3 02059.4 -1308.9  
 81 9.3 02125.2 -1356.1  
 82 9.6 02206.7 -1327.3  
 83 9.8 02229.0 -1338.9  
 84 9.5 02230.6 -1317.1  
 85 9.0 02249.5 -1309.1  
 86 9.7 02334.7 -1316.9  
 87 9.5 02342.0 -1308.9

88 9.1 02408.9 -1300.7  
 89 8.2 02446.6 -1305.8  
 90 9.3 02503.2 -1314.3  
 91 9.8 02555.3 -1353.6  
 92 9.5 02556.0 -1345.8  
 93 10.1 02558.6 -1312.2  
 94 10.1 02604.0 -1343.3  
 95 9.2 02604.2 -1349.6  
 96 9.5 02658.5 -1323.7  
 97 9.7 02710.4 -1303.0

98 9.8 02723.2 -1336.8  
 99 9.5 02854.7 -1359.3  
 100 9.3 02903.4 -1353.4  
 101 9.1 02912.1 -1307.8  
 102 9.7 02929.5 -1313.4  
 103 9.3 02938.7 -1336.6  
 104 9.3 03000.9 -1348.7  
 105 9.4 03057.3 -1336.5  
 106 9.3 03118.8 -1340.1  
 107 10.1 03127.2 -1315.3

108 9.0 03138.6 -1306.8  
 109 9.1 03146.5 -1320.2  
 110 9.3 03156.2 -1319.6  
 111 9.5 03202.4 -1310.7  
 112 9.8 03231.5 -1336.5  
 113 8.8 03238.6 -1352.7  
 114 9.5 03253.1 -1322.8  
 115 9.3 03253.6 -1302.6  
 116 9.4 03406.5 -1358.8  
 117 8.5 03410.2 -1329.2

118 9.5 03434.2 -1326.8  
 119 9.8 03443.3 -1311.1  
 120 9.5 03450.6 -1311.5  
 121 9.4 03521.8 -1324.3  
 122 9.2 03605.7 -1346.9  
 123 9.4 03645.1 -1349.2  
 124 9.8 03705.4 -1326.3  
 125 9.8 03717.1 -1326.7  
 126 9.5 03745.9 -1314.0  
 127 9.5 03746.1 -1328.7

128 6.3 03811.8 -1339.9  
 129 9.3 03819.7 -1349.2  
 130 9.4 03823.7 -1352.9  
 131 9.5 03838.4 -1301.9  
 132 9.8 03841.7 -1333.5  
 133 9.4 03852.5 -1337.0  
 134 10.1 03905.7 -1341.0  
 135 9.5 04001.8 -1329.0  
 136 9.5 04048.0 -1305.1  
 137 9.2 04104.6 -1341.5

138 9.0 04120.4 -1326.0  
 139 9.5 04242.3 -1349.5  
 140 9.3 04334.2 -1355.6  
 141 8.0 04350.3 -1342.7  
 142 8.5 04400.9 -1354.3  
 143 9.5 04407.4 -1359.3  
 144 9.4 04416.2 -1333.9  
 145 9.4 04434.8 -1314.2  
 146 8.0 04523.3 -1343.6  
 147 10.1 04528.7 -1330.6

148 10.1 04547.0 -1336.1  
 149 8.9 04623.9 -1346.8  
 150 9.0 04626.8 -1375.2  
 151 9.3 04640.7 -1300.2  
 152 9.5 04641.9 -1344.8  
 153 9.7 04722.3 -1314.5  
 154 9.4 04742.7 -1337.9  
 155 7.7 04813.8 -1320.5  
 156 9.7 04824.0 -1331.2  
 157 9.3 04835.0 -1348.4

158 9.8 04845.5 -1356.0  
 159 9.0 04851.1 -1317.9  
 160 9.5 04930.1 -1337.8  
 161 9.3 04935.0 -1346.6  
 162 9.1 04946.5 -1348.7  
 163 9.4 05008.4 -1333.8  
 164 8.2 05020.3 -1301.7  
 165 9.4 05038.6 -1345.9  
 166 9.8 05057.4 -1354.7  
 167 10.1 05108.4 -1316.3

168 10.1 05116.1 -1328.4  
 169 10.1 05117.2 -1352.4  
 170 9.3 05143.4 -1359.3  
 171 9.1 05145.4 -1315.2  
 172 9.3 05233.1 -1301.7  
 173 9.8 05239.3 -1348.0  
 174 9.9 05312.8 -1333.3  
 175 9.4 05343.8 -1320.7  
 176 9.8 05339.9 -1342.5  
 177 9.2 05359.4 -1330.8

178 9.5 05410.1 -1328.0  
 179 8.8 05448.1 -1311.7  
 180 10.1 05445.7 -1304.9  
 181 9.5 05507.4 -1352.3  
 182 10.1 05516.7 -1300.0  
 183 9.9 05527.7 -1301.3  
 184 9.8 05529.0 -1357.7  
 185 10.1 05534.8 -1307.6  
 186 9.5 05536.1 -1318.9  
 187 9.5 05551.5 -1350.7

188 9.9 05554.9 -1309.0  
 189 9.7 05616.4 -1342.3  
 190 9.3 05624.0 -1323.5  
 191 9.7 05630.5 -1348.5  
 192 9.3 05635.5 -1302.3  
 193 8.8 05723.6 -1306.9  
 194 9.9 05744.5 -1354.3  
 195 8.5 05757.9 -1311.7  
 196 7.5 05811.2 -1341.1  
 197 8.7 05842.4 -1349.6

198 9.5 05846.8 -1327.7  
 199 10.1 05851.6 -1356.6  
 200 9.7 05854.3 -1320.4  
 201 9.3 05938.4 -1349.6  
 202 9.3 10010.2 -1358.5  
 203 9.5 10016.6 -1350.3  
 204 9.5 10044.1 -1326.2  
 205 9.2 10131.1 -1319.1  
 206 9.4 10155.2 -1304.2  
 207 9.3 10156.2 -1312.0

208 9.3 10231.7 -1347.9  
 209 9.5 10231.9 -1307.0  
 210 8.9 10239.7 -1315.2  
 211 10.1 10255.6 -1336.1  
 212 10.1 10318.0 -1313.1  
 213 10.1 10320.2 -1326.3  
 214 10.1 10320.3 -1324.5  
 215 9.5 10336.0 -1348.0  
 216 9.5 10419.4 -1318.2  
 217 7.2 10420.2 -1327.0

218 9.3 10512.6 -1358.3  
 219 9.8 10602.5 -1311.8  
 220 9.5 10610.6 -1344.8  
 221 9.5 10619.0 -1327.0  
 222 9.0 10620.1 -1310.7  
 223 9.9 10734.9 -1315.0  
 224 9.7 10740.5 -1314.6  
 225 9.5 10742.9 -1336.5  
 226 10.1 10744.6 -1319.5  
 227 9.1 10746.1 -1311.8

228 9.1 10914.8 -1317.7  
 229 9.5 11008.0 -1331.2  
 230 10.1 11028.2 -1356.7  
 231 8.0 11032.0 -1306.3  
 232 9.2 11114.7 -1303.9  
 233 9.5 11117.4 -1327.8  
 234 9.8 11135.9 -1323.1  
 235 9.8 11146.6 -1347.9  
 236 9.1 11148.4 -1324.5  
 237 9.5 11211.4 -1328.5

238 9.6 11235.7 -1315.5  
 239 9.5 11252.1 -1349.8  
 240 9.8 11326.5 -1313.2  
 241 8.4 11349.0 -1330.2  
 242 9.8 11426.5 -1305.8  
 243 9.0 11447.6 -1306.1  
 244 9.1 11455.7 -1350.2  
 245 9.5 11503.6 -1302.1  
 246 8.9 11506.8 -1312.7  
 247 10.1 11534.5 -1318.1

248 10.1 11549.1 -1331.7  
 249 8.0 11549.7 -1342.5  
 250 9.4 11613.2 -1334.1  
 251 10.1 11625.0 -1323.2  
 252 9.3 11625.3 -1348.2  
 253 9.8 11627.7 -1304.3  
 254 9.1 11657.1 -1328.6  
 255 9.0 11715.6 -1331.2  
 256 8.7 11719.6 -1319.6  
 257 9.6 11744.6 -1316.1

258 9.9 11746.9 -1311.4  
 259 9.8 11843.9 -1311.1  
 260 9.8 11845.3 -1313.4  
 261 9.5 11910.8 -1334.1  
 262 6.0 11942.4 -1348.6  
 263 9.5 11954.3 -1339.0  
 264 9.1 12029.4 -1305.9  
 265 9.6 12034.8 -1375.3  
 266 9.5 12105.1 -1302.8  
 267 9.0 12140.3 -1333.5

268 9.4 12150.1 -1314.5  
 269 9.0 12224.6 -1354.6  
 270 7.3 12232.8 -1350.2  
 271 9.8 12247.4 -1350.8  
 272 9.1 12257.9 -1300.4  
 273 8.7 12327.0 -1343.7  
 274 9.1 12356.1 -1312.3  
 275 10.1 12419.5 -1337.6  
 276 7.8 12427.5 -1300.2  
 277 9.7 12444.8 -1316.7



278 9.5 12457.9 -1357.3  
 279 9.5 12506.0 -1352.3  
 280 8.8 12520.9 -1323.0  
 281 8.8 12525.4 -1336.1  
 282 9.7 12539.7 -1314.0  
 283 8.8 12605.4 -1327.8  
 284 9.9 12615.6 -1308.4  
 285 9.8 12630.2 -1346.9  
 286 9.8 12642.5 -1314.8  
 287 9.8 12719.3 -1315.6

288 9.8 12731.2 -1324.6  
 289 10.0 12743.9 -1324.2  
 290 10.0 12753.7 -1318.7  
 291 9.3 12826.6 -1309.2  
 292 9.1 12839.3 -1312.2  
 293 9.4 12910.6 -1335.3  
 294 8.3 12915.5 -1328.5  
 295 10.0 12956.2 -1346.8  
 296 7.8 13013.6 -1328.5  
 297 8.3 13019.2 -1310.7

298 9.2 13030.3 -1351.7  
 299 9.4 13033.7 -1319.1  
 300 8.9 13131.1 -1322.7  
 301 9.6 13148.6 -1318.0  
 302 9.6 13150.3 -1350.2  
 303 9.5 13216.1 -1326.8  
 304 9.7 13241.8 -1356.4  
 305 9.2 13309.6 -1327.8  
 306 8.9 13340.2 -1309.7  
 307 8.3 13343.9 -1343.2

308 10.0 13401.8 -1334.0  
 309 8.9 13408.9 -1339.2  
 310 8.3 13454.2 -1322.3  
 311 9.1 13508.9 -1356.6  
 312 8.4 13523.9 -1303.3  
 313 9.5 13549.5 -1350.6  
 314 8.4 13590.7 -1352.6  
 315 9.3 13657.0 -1323.7  
 316 9.9 13702.5 -1349.9  
 317 8.8 13729.3 -1323.3

318 9.8 13749.1 -1304.3  
 319 10.0 13826.6 -1347.2  
 320 9.3 13853.9 -1326.0  
 321 9.1 14025.1 -1330.3  
 322 8.1 14038.1 -1355.6  
 323 10.0 14103.0 -1324.0  
 324 9.2 14111.3 -1321.0  
 325 9.6 14117.9 -1315.1  
 326 9.4 14121.9 -1314.5  
 327 10.0 14127.0 -1325.5

328 10.0 14156.2 -1352.7  
 329 9.8 14204.5 -1330.6  
 330 9.5 14251.3 -1352.5  
 331 9.5 14255.4 -1325.5  
 332 8.0 14301.5 -1323.9  
 333 9.2 14303.6 -1323.9  
 334 7.9 14310.7 -1336.8  
 335 7.8 14323.3 -1303.6  
 336 9.4 14338.6 -1317.6  
 337 7.2 14436.3 -1357.0

338 8.0 14446.2 -1302.8  
 339 9.7 14455.7 -1355.4  
 340 7.8 14527.3 -1322.7  
 341 10.0 14552.6 -1318.4  
 342 8.8 14556.3 -1305.6  
 343 10.0 14609.1 -1325.9  
 344 9.7 14609.8 -1329.4  
 345 9.4 14636.0 -1317.5  
 346 8.5 14636.4 -1310.1  
 347 8.7 14626.5 -1257.7

348 10.0 14734.4 -1310.1  
 349 9.8 14822.1 -1360.9  
 350 8.2 14826.3 -1321.9  
 351 8.8 14828.6 -1321.7  
 352 9.5 14920.9 -1321.9  
 353 10.0 15002.0 -1316.4  
 354 9.5 15042.9 -1328.9  
 355 9.7 15101.6 -1326.2  
 356 9.9 15133.5 -1306.4  
 357 9.5 15136.8 -1347.9

358 10.0 15148.9 -1314.2  
 359 10.0 15194.4 -1319.9  
 360 10.0 15247.5 -1316.3  
 361 9.0 15251.8 -1361.5  
 362 9.2 15256.7 -1334.5  
 363 9.0 15342.8 -1341.0  
 364 8.5 15345.7 -1334.7  
 365 9.4 15349.2 -1337.3  
 366 9.2 15432.3 -1322.1  
 367 9.0 15448.4 -1326.2

368 9.4 15503.5 -1315.7  
 369 8.6 15531.0 -1350.5  
 370 9.2 15537.5 -1318.8  
 371 10.0 15549.1 -1319.6  
 372 9.5 15706.3 -1334.0  
 373 9.6 15729.2 -1306.1  
 374 9.1 15731.8 -1325.6  
 375 10.0 15811.6 -1333.8  
 376 9.4 15822.4 -1345.5  
 377 9.1 15827.9 -1331.8

378 9.9 15830.3 -1307.6  
 379 10.0 15846.6 -1338.3  
 380 9.6 15852.9 -1334.2  
 381 9.0 15920.7 -1301.6  
 382 8.7 20005.4 -1329.7  
 383 10.0 20022.6 -1324.3  
 384 9.2 20042.4 -1340.7  
 385 9.6 20051.7 -1346.4  
 386 8.6 20113.0 -1301.7  
 387 9.5 20113.3 -1318.6

388 10.0 20131.5 -1317.1  
 389 10.0 20151.3 -1321.9  
 390 10.0 20158.7 -1331.7  
 391 9.8 20177.9 -1327.5  
 392 8.5 20249.4 -1353.8  
 393 10.0 20311.7 -1323.2  
 394 9.9 20312.1 -1337.5  
 395 9.5 20323.5 -1334.6  
 396 9.1 20324.0 -1348.9  
 397 9.8 20329.8 -1259.9

398 9.5 20333.2 -1359.8  
 399 9.8 20337.6 -1319.0  
 400 7.0 20344.1 -1336.7  
 401 9.8 20358.0 -1330.8  
 402 8.8 20359.0 -1308.0  
 403 8.4 20418.0 -1330.3  
 404 9.8 20436.5 -1308.1  
 405 8.3 20447.1 -1335.2  
 406 10.0 20513.3 -1348.1  
 407 9.5 20519.8 -1359.4

408 10.0 20524.9 -1305.0  
 409 9.5 20559.6 -1332.5  
 410 9.5 20563.5 -1307.2  
 411 8.8 20629.9 -1358.0  
 412 8.6 20734.7 -1335.4  
 413 9.0 20752.8 -1345.9  
 414 9.0 20809.0 -1302.3  
 415 9.1 20816.6 -1322.4  
 416 9.8 20832.7 -1338.1  
 417 9.3 20833.4 -1317.9

418 9.1 20932.9 -1348.0  
 419 8.0 20948.1 -1307.0  
 420 8.5 21022.3 -1321.5  
 421 9.0 21046.0 -1324.1  
 422 8.6 21110.3 -1318.3  
 423 10.0 21146.2 -1325.5  
 424 9.7 21220.5 -1309.0  
 425 10.0 21222.3 -1356.5  
 426 9.9 21232.7 -1301.0  
 427 8.0 21239.1 -1225.7

428 9.6 21319.6 -1356.9  
 429 8.8 21404.9 -1336.3  
 430 9.4 21413.7 -1354.3  
 431 10.0 21522.9 -1331.5  
 432 9.5 21540.0 -1314.8  
 433 9.3 21544.5 -1341.0  
 434 8.7 21551.4 -1317.8  
 435 9.3 21623.5 -1338.4  
 436 10.0 21631.7 -1350.2  
 437 9.3 21658.3 -1327.1

438 9.0 21700.2 -1250.6  
 439 9.2 21723.2 -1358.2  
 440 7.0 21729.8 -1357.0  
 441 9.3 21833.9 -1311.8  
 442 9.4 21848.5 -1310.1  
 443 10.0 21900.9 -1304.3  
 444 10.0 21995.4 -1251.3  
 445 9.7 21910.3 -1354.6  
 446 9.2 21923.1 -1337.8  
 447 9.7 21926.5 -1317.1

448 9.5 21974.4 -1354.3  
 449 9.0 21975.2 -1329.6  
 450 9.5 22035.4 -1352.1  
 451 10.0 22044.0 -1327.4  
 452 9.6 22054.6 -1258.5  
 453 9.5 22105.9 -1346.5  
 454 9.6 22116.2 -1326.7  
 455 9.6 22119.7 -1338.3  
 456 8.5 22125.9 -1316.7  
 457 6.8 22225.1 -1333.8

458 9.5 22228.0 -1312.2  
 459 9.6 22228.1 -1357.2  
 460 9.1 22234.5 -1303.1  
 461 8.8 22235.2 -1336.1  
 462 8.0 22250.7 -1354.0  
 463 9.2 22301.0 -1326.5  
 464 8.7 22320.6 -1356.3  
 465 8.9 22325.0 -1322.1  
 466 9.5 22340.7 -1353.1  
 467 9.8 22341.7 -1309.4

468 8.8 22421.5 -1348.3  
 469 10.0 22451.2 -1332.1  
 470 9.9 22507.6 -1327.2  
 471 9.5 22511.3 -1312.6  
 472 9.5 22544.5 -1322.5  
 473 8.9 22549.7 -1304.6  
 474 9.5 22553.1 -1356.5  
 475 9.9 22613.1 -1315.8  
 476 9.8 22624.4 -1344.3  
 477 9.5 22625.0 -1311.5

478 9.9 22633.4 -1348.0  
 479 8.5 22645.1 -1347.2  
 480 9.5 22652.7 -1305.8  
 481 8.5 22701.1 -1335.2  
 482 9.1 22711.6 -1301.0  
 483 8.8 22736.0 -1323.2  
 484 9.8 22748.7 -1323.7  
 485 10.0 22752.8 -1309.6  
 486 10.0 22808.1 -1335.4  
 487 8.8 22826.2 -1324.9

488 10.0 22827.8 -1314.0  
 489 10.0 22845.0 -1331.5  
 490 9.5 22851.9 -1336.5  
 491 10.0 22906.0 -1315.0  
 492 7.5 22922.8 -1332.0  
 493 8.8 22956.2 -1351.9  
 494 9.8 23050.3 -1339.8  
 495 7.3 23053.6 -1345.8  
 496 9.5 23123.4 -1332.9  
 497 8.8 23126.0 -1338.9

498 8.3 23129.6 -1359.7  
 499 9.7 23138.3 -1304.2  
 500 7.8 23158.0 -1337.7  
 501 9.9 23202.9 -1325.5  
 502 8.1 23221.4 -1357.4  
 503 9.2 23243.2 -1311.2  
 504 10.0 23246.4 -1356.5  
 505 9.4 23248.8 -1321.2  
 506 10.0 23252.3 -1351.1  
 507 9.3 23268.3 -1315.7

508 9.7 23412.3 -1358.2  
 509 9.1 23413.7 -1359.8  
 510 9.6 23419.4 -1302.9  
 511 8.7 23423.9 -1310.8  
 512 9.8 23509.8 -1347.5  
 513 9.1 23550.5 -1342.3  
 514 9.2 23602.1 -1342.6  
 515 9.3 23607.9 -1348.4  
 516 7.3 23713.0 -1306.3  
 517 9.1 23729.2 -1336.6

518 10.0 23807.2 -1314.2  
 519 8.8 23812.1 -1310.2  
 520 10.0 23812.7 -1309.0  
 521 10.0 23859.0 -1348.1  
 522 9.5 23917.6 -1319.7  
 523 9.5 23934.1 -1301.2  
 524 9.2 24001.5 -1346.0  
 525 8.3 24003.8 -1357.1  
 526 9.4 24042.6 -1350.0  
 527 9.9 24043.6 -1352.8

528 9.2 24046.1 -1300.8  
 529 9.0 24046.7 -1316.6  
 530 6.3 24059.2 -1204.0  
 531 9.5 24106.6 -1309.4  
 532 9.1 24115.2 -1315.2  
 533 9.6 24117.6 -1319.9  
 534 10.0 24131.1 -1341.1  
 535 8.9 24127.6 -1357.2  
 536 9.5 24142.6 -1351.4  
 537 10.0 24218.3 -1332.1

538 9.4 24345.1 -1346.7  
 539 9.5 24356.0 -1217.6  
 540 9.8 24356.1 -1314.9  
 541 9.7 24422.6 -1316.0  
 542 10.0 24456.7 -1347.5  
 543 8.5 24518.5 -1341.3  
 544 5.8 24533.7 -1321.6  
 545 9.9 24539.6 -1356.4  
 546 9.0 24600.8 -1341.4  
 547 9.6 24604.1 -1301.6

548 9.5 24606.2 -1320.8  
 549 9.4 24615.5 -1303.4  
 550 9.2 24640.0 -1358.6  
 551 9.3 24647.2 -1303.5  
 552 9.0 24704.3 -1357.1  
 553 10.0 24712.8 -1327.1  
 554 9.1 24728.2 -1346.5  
 555 9.3 24825.8 -1346.8  
 556 9.3 24912.4 -1327.7  
 557 9.3 24930.9 -1326.9

558 8.3 24952.6 -1349.8  
 559 9.5 25019.3 -1316.4  
 560 8.5 25028.6 -1354.3  
 561 9.9 25049.8 -1345.7  
 562 9.2 25100.5 -1309.1  
 563 8.0 25130.1 -1323.2  
 564 8.3 25205.2 -1355.7  
 565 9.0 25218.7 -1309.2  
 566 10.0 25231.3 -1302.9  
 567 9.4 25251.6 -1338.5

568 9.8 25309.1 -1336.5  
 569 10.0 25309.9 -1306.0  
 570 8.0 25318.2 -1338.3  
 571 10.0 25339.8 -1311.5  
 572 9.1 25425.6 -1335.0  
 573 9.5 25506.6 -1332.9  
 574 9.8 25513.9 -1305.9  
 575 8.0 25522.1 -1312.2  
 576 9.8 25554.1 -1317.0  
 577 10.0 25616.5 -1317.0

578 8.9 25655.4 -1343.3  
 579 9.5 25657.8 -1348.6  
 580 9.7 25703.7 -1314.1  
 581 9.5 25704.4 -1307.5  
 582 9.4 25709.5 -1359.8  
 583 9.5 25742.3 -1344.7  
 584 9.0 25759.4 -1324.2  
 585 8.7 25824.3 -1317.1  
 586 9.3 25825.3 -1359.0  
 587 9.0 25836.7 -1338.0

588 9.1 25841.2 -1244.2  
 589 9.3 25853.3 -1345.4  
 590 9.5 25856.5 -1355.0  
 591 8.3 25933.9 -1349.1  
 592 7.8 25944.0 -1352.6  
 593 9.0 30015.9 -1203.5  
 594 10.0 30016.3 -1342.0  
 595 10.0 30023.8 -1323.8  
 596 8.4 30121.9 -1209.6  
 597 9.1 30133.5 -1230.9

598 9.4 30157.0 -1330.9  
 599 8.7 30235.1 -1354.9  
 600 9.4 30259.5 -1309.0  
 601 9.0 30333.2 -1356.0  
 602 9.4 30334.6 -1313.0  
 603 9.0 30357.8 -1338.5  
 604 6.3 30413.5 -1249.2  
 605 9.9 30419.8 -1325.6  
 606 9.8 30430.1 -1251.5  
 607 9.0 30502.0 -1328.0

608 9.4 30604.7 -1354.3  
 609 8.9 30617.7 -1316.2  
 610 9.5 30635.1 -1315.5  
 611 9.5 30725.3 -1354.0  
 612 9.3 30729.2 -1329.6  
 613 10.0 30729.5 -1342.1  
 614 9.1 30804.9 -1314.9  
 615 8.7 30809.2 -1330.8  
 616 10.0 30816.6 -1324.3  
 617 8.0 30824.8 -1331.6

618 9.5 30927.9 -1315.5  
 619 9.5 30931.9 -1359.8  
 620 10.0 31013.4 -1315.6  
 621 8.3 31013.8 -1354.2  
 622 9.9 31021.2 -1345.7  
 623 10.0 31113.0 -1321.0  
 624 9.5 31154.1 -1322.1  
 625 9.5 31157.2 -1348.3  
 626 9.8 31203.2 -1223.4  
 627 10.0 31217.9 -1348.3

628 9.1 31228.8 -1326.3  
 629 9.4 31233.2 -1302.0  
 630 9.9 31244.5 -1336.3  
 631 10.0 31247.7 -1322.5  
 632 9.1 31330.9 -1353.7  
 633 9.4 31428.7 -1324.4  
 634 9.9 31428.4 -1353.8  
 635 8.8 31507.8 -1324.4  
 636 9.8 31512.3 -1351.1  
 637 8.3 31516.3 -1347.6



638 10. 31613.3 -1313.0  
 639 9.5 31647.0 -1320.9  
 640 9.8 31652.4 -1353.1  
 641 9.5 31705.9 -1359.4  
 642 9.0 31721.0 -1350.5  
 643 8.8 31759.8 -1321.9  
 644 9.2 31838.9 -1346.9  
 645 8.5 31859.5 -1335.0  
 646 10. 31906.7 -1340.6  
 647 9.8 31926.1 -1314.3

648 9.3 31938.9 -1329.2  
 649 9.3 32024.7 -1306.7  
 650 9.8 32043.6 -1340.1  
 651 9.2 32048.6 -1337.2  
 652 10. 32049.1 -1314.0  
 653 9.5 32052.1 -1316.2  
 654 9.6 32052.5 -1307.3  
 655 9.0 32054.4 -1326.3  
 656 7.5 32118.7 -1315.7  
 657 9.7 32122.5 -1353.9

658 9.1 32128.5 -1330.7  
 659 7.2 32137.7 -1342.7  
 660 9.4 32137.8 -1359.6  
 661 9.1 32202.1 -1320.4  
 662 6.0 32245.1 -1310.5  
 663 9.5 32248.6 -1333.5  
 664 9.7 32253.9 -1316.5  
 665 9.8 32258.0 -1336.5  
 666 9.4 32302.6 -1343.6  
 667 9.8 32303.3 -1323.7

668 9.8 32320.4 -1307.3  
 669 10. 32336.8 -1346.8  
 670 10. 32349.5 -1353.1  
 671 9.8 32352.7 -1342.1  
 672 9.2 32411.5 -1321.7  
 673 9.8 32422.5 -1341.8  
 674 7.5 32423.2 -1359.7  
 675 8.3 32446.9 -1313.7  
 676 9.2 32500.2 -1303.0  
 677 9.1 32527.7 -1335.8

678 10. 32606.9 -1333.7  
 679 8.8 32607.3 -1343.3  
 680 9.8 32613.0 -1323.9  
 681 8.5 32633.6 -1329.9  
 682 9.5 32706.3 -1317.7  
 683 9.1 32707.9 -1334.2  
 684 9.0 32712.3 -1333.3  
 685 9.8 32712.9 -1349.4  
 686 9.3 32749.6 -1305.8  
 687 9.0 32749.7 -1316.4

688 9.7 32831.6 -1314.9  
 689 9.7 32835.8 -1312.1  
 690 9.4 32843.5 -1350.4  
 691 9.8 32913.4 -1315.3  
 692 10. 32937.6 -1306.7  
 693 8.8 32950.5 -1348.1  
 694 9.9 32954.6 -1352.6  
 695 10. 32954.6 -1356.5  
 696 10. 33000.0 -1311.4  
 697 9.8 33009.0 -1359.2

698 9.7 33032.3 -1335.5  
 699 9.6 33051.2 -1301.9  
 700 9.9 33100.5 -1355.2  
 701 9.8 33100.6 -1342.2  
 702 9.7 33101.4 -1306.0  
 703 8.7 33120.3 -1325.7  
 704 10. 33143.6 -1338.2  
 705 10. 33152.2 -1346.8  
 706 9.5 33215.1 -1340.7  
 707 8.7 33259.2 -1344.0

708 10. 33318.5 -1313.6  
 709 9.9 33333.1 -1325.6  
 710 9.0 33340.3 -1319.7  
 711 9.8 33343.2 -1328.8  
 712 8.8 33400.1 -1305.6  
 713 7.0 33401.6 -1305.2  
 714 9.2 33423.4 -1347.8  
 715 9.7 33434.8 -1350.8  
 716 9.0 33436.8 -1346.4  
 717 9.8 33455.8 -1318.1

718 9.8 33620.3 -1322.3  
 719 10. 33625.4 -1350.0  
 720 10. 33637.0 -1314.5  
 721 9.3 33647.0 -1326.9  
 722 9.5 33652.1 -1343.8  
 723 9.8 33653.4 -1328.5  
 724 9.0 33654.8 -1344.9  
 725 8.5 33721.5 -1351.9  
 726 9.1 33724.6 -1322.3  
 727 10. 33734.9 -1318.1

728 9.0 33739.9 -1349.2  
 729 8.0 33759.1 -1355.8  
 730 9.7 33832.0 -1320.1  
 731 10. 33838.2 -1338.7  
 732 9.0 33855.2 -1325.3  
 733 8.5 33855.7 -1347.2  
 734 10. 33905.5 -1327.8  
 735 10. 33917.3 -1351.5  
 736 9.4 33935.1 -1302.4  
 737 10. 33940.2 -1340.5

738 10. 33953.8 -1314.8  
 739 10. 33956.0 -1305.0  
 740 10. 34024.0 -1322.6  
 741 9.5 34047.1 -1347.1  
 742 9.5 34100.0 -1341.2  
 743 7.3 34139.0 -1345.3  
 744 10. 34143.9 -1330.2  
 745 8.9 34146.0 -1358.9  
 746 9.8 34155.3 -1338.0  
 747 8.5 34214.1 -1335.5

748 9.1 34220.8 -1321.0  
 749 9.5 34226.7 -1352.2  
 750 10. 34332.4 -1310.1  
 751 10. 34336.9 -1341.0  
 752 9.7 34407.8 -1314.6  
 753 10. 34408.6 -1351.7  
 754 10. 34431.7 -1359.4  
 755 9.7 34448.7 -1358.9  
 756 10. 34453.4 -1301.0  
 757 9.0 34454.7 -1311.5

758 9.5 34526.6 -1315.7  
 759 9.2 34533.2 -1300.3  
 760 9.5 34605.7 -1347.0  
 761 9.8 34609.9 -1338.2  
 762 9.8 34618.0 -1351.0  
 763 9.4 34635.6 -1345.5  
 764 9.4 34655.5 -1301.4  
 765 7.8 34658.6 -1310.0  
 766 9.4 34708.2 -1336.5  
 767 9.4 34716.1 -1300.2

768 9.2 34739.4 -1337.3  
 769 9.4 34743.8 -1334.5  
 770 8.0 34744.0 -1308.9  
 771 9.2 34931.3 -1310.5  
 772 9.8 34931.7 -1316.7  
 773 9.5 34943.6 -1345.7  
 774 8.8 35000.7 -1345.3  
 775 10. 35010.1 -1344.0  
 776 9.3 35010.2 -1345.9  
 777 9.2 35015.9 -1307.3

778 8.3 35045.2 -1348.0  
 779 9.8 35112.1 -1315.3  
 780 9.0 35112.4 -1345.9  
 781 3.0 35116.2 -1355.6  
 782 9.8 35127.8 -1313.2  
 783 9.1 35156.7 -1325.2  
 784 8.5 35208.2 -1305.2  
 785 9.7 35214.1 -1330.8  
 786 10. 35248.9 -1347.9  
 787 9.5 35253.0 -1326.2

788 9.0 35259.3 -1357.4  
 789 9.1 35327.4 -1320.9  
 790 8.4 35353.6 -1216.1  
 791 9.5 35356.5 -1352.7  
 792 10. 35424.5 -1307.3  
 793 9.5 35439.7 -1306.4  
 794 9.9 35441.5 -1312.1  
 795 9.1 35444.9 -1347.4  
 796 9.3 35456.1 -1333.8  
 797 9.5 35456.1 -1309.5

798 9.7 35511.1 -1318.9  
 799 9.5 35521.0 -1227.2  
 800 10. 35552.3 -1339.0  
 801 9.3 35613.6 -1320.5  
 802 10. 35615.6 -1324.8  
 803 9.8 35652.8 -1237.2  
 804 8.8 35655.1 -1353.3  
 805 10. 35726.0 -1347.2  
 806 5.9 35736.2 -1311.5  
 807 9.4 35806.4 -1303.4

808 10. 35810.1 -1377.5  
 809 9.0 35837.2 -1323.7  
 810 9.4 35854.5 -1324.0  
 811 9.3 35946.0 -1323.0  
 812 8.5 35947.3 -1336.2  
 813 10. 40014.2 -1328.1  
 814 8.2 40030.5 -1303.2  
 815 9.4 40049.2 -1351.4  
 816 9.4 40124.7 -1310.0  
 817 9.4 40128.0 -1326.6

818 9.1 40202.7 -1332.3  
 819 9.5 40216.1 -1304.0  
 820 8.9 40222.3 -1340.2  
 821 8.9 40226.2 -1328.3  
 822 9.8 40246.3 -1312.5  
 823 9.5 40252.5 -1353.1  
 824 9.3 40302.1 -1313.8  
 825 9.6 40306.1 -1309.5  
 826 9.6 40310.6 -1322.9  
 827 9.2 40348.2 -1356.4

828 9.5 40403.3 -1329.0  
 829 10. 40436.7 -1306.0  
 830 9.0 40456.6 -1312.6  
 831 10. 40516.7 -1303.2  
 832 7.8 40521.2 -1355.7  
 833 8.6 40531.9 -1308.6  
 834 8.9 40532.5 -1318.2  
 835 9.1 40600.7 -1330.1  
 836 10. 40615.9 -1357.3  
 837 10. 40620.3 -1336.2

838 9.6 40622.1 -1338.2  
 839 9.7 40656.8 -1314.6  
 840 9.4 40707.7 -1312.3  
 841 9.6 40727.6 -1334.4  
 842 20.0 40730.4 -1306.2  
 843 8.6 40731.5 -1335.6  
 844 9.8 40752.3 -1308.0  
 845 9.4 40801.9 -1331.1  
 846 9.5 40926.3 -1355.3  
 847 9.0 40934.5 -1344.9

848 8.0 40944.0 -1332.8  
 849 9.8 41004.8 -1307.8  
 850 9.4 41017.5 -1349.0  
 851 9.1 41039.0 -1311.1  
 852 8.2 41042.2 -1350.3  
 853 9.8 41046.8 -1303.8  
 854 9.8 41056.7 -1302.0  
 855 9.0 41112.7 -1358.0  
 856 9.5 41146.8 -1347.9  
 857 8.8 41202.6 -1337.5

858 8.8 41224.7 -1341.0  
 859 8.7 41249.0 -1315.2  
 860 9.8 41305.9 -1321.9  
 861 9.1 41318.9 -1349.6  
 862 9.0 41326.8 -1348.0  
 863 9.3 41340.3 -1305.1  
 864 8.3 41346.8 -1318.4  
 865 9.0 41424.2 -1321.0  
 866 9.8 41435.6 -1337.5  
 867 9.4 41437.2 -1341.8

868 9.1 41444.0 -1327.5  
 869 9.7 41502.1 -1333.1  
 870 9.9 41559.0 -1348.8  
 871 9.4 41633.4 -1323.5  
 872 9.8 41646.7 -1352.2  
 873 9.3 41647.5 -1330.4  
 874 9.4 41649.2 -1304.0  
 875 9.8 41657.6 -1358.4  
 876 10. 41730.8 -1341.2  
 877 9.0 41731.5 -1307.0

878 9.0 41835.5 -1307.8  
 879 9.5 41850.1 -1332.5  
 880 8.0 41917.0 -1337.0  
 881 10. 41930.2 -1356.5  
 882 9.5 41952.6 -1332.2  
 883 9.0 42028.4 -1301.9  
 884 9.5 42031.2 -1353.4  
 885 9.0 42035.7 -1334.0  
 886 9.1 42106.1 -1329.7  
 887 8.2 42114.0 -1347.5

888 9.2 42138.7 -1356.7  
 889 10. 42148.8 -1337.4  
 890 9.4 42155.0 -1316.3  
 891 9.8 42216.0 -1318.7  
 892 8.5 42217.1 -1359.3  
 893 5.8 42222.5 -1322.5  
 894 9.1 42245.4 -1300.5  
 895 9.2 42303.2 -1317.0  
 896 6.8 42327.1 -1354.4  
 897 8.3 42345.7 -1334.8

898 8.3 42351.5 -1313.5  
 899 9.4 42408.1 -1352.1  
 900 9.9 42425.8 -1339.7  
 901 8.8 42432.4 -1340.4  
 902 9.8 42434.6 -1303.1  
 903 9.2 42435.9 -1306.4  
 904 6.7 42444.1 -1357.4  
 905 9.0 42445.6 -1357.2  
 906 9.4 42502.4 -1312.8  
 907 9.5 42507.7 -1311.3

908 9.8 42514.0 -1306.2  
 909 9.8 42524.1 -1352.3  
 910 9.0 42535.7 -1353.8  
 911 9.5 42558.2 -1303.6  
 912 9.2 42606.8 -1328.0  
 913 9.3 42607.5 -1351.4  
 914 9.7 42615.9 -1326.0  
 915 9.8 42630.3 -1327.1  
 916 9.4 42642.1 -1345.9  
 917 9.1 42648.6 -1326.1

918 8.7 42703.9 -1314.1  
 919 10. 42728.6 -1304.4  
 920 9.7 42744.3 -1353.6  
 921 9.1 42746.1 -1304.6  
 922 9.8 42756.0 -1341.8  
 923 9.7 42810.2 -1312.2  
 924 9.1 42816.3 -1313.6  
 925 9.0 42817.6 -1304.8  
 926 9.3 42827.0 -1317.2  
 927 9.0 42831.5 -1315.9

928 9.3 42838.0 -1302.9  
 929 9.3 42857.5 -1312.6  
 930 9.7 42900.0 -1309.9  
 931 9.1 43022.4 -1326.3  
 932 9.4 43024.1 -1346.8  
 933 9.3 43027.5 -1324.7  
 934 9.1 43034.2 -1356.5  
 935 9.8 43058.2 -1321.5  
 936 9.8 43105.3 -1339.7  
 937 7.3 43116.3 -1319.2

938 8.0 43116.8 -1319.4  
 939 7.8 43128.7 -1332.7  
 940 9.0 43148.4 -1304.6  
 941 9.6 43151.1 -1328.5  
 942 8.3 43213.8 -1338.1  
 943 9.4 43215.6 -1319.4  
 944 9.7 43219.1 -1313.4  
 945 9.5 43242.5 -1356.5  
 946 9.8 43311.5 -1324.4  
 947 8.2 43329.9 -1318.1

948 9.3 43340.9 -1322.3  
 949 9.4 43354.9 -1306.6  
 950 9.4 43355.7 -1307.5  
 951 9.3 43402.3 -1337.0  
 952 9.0 43402.8 -1320.8  
 953 9.5 43437.6 -1358.6  
 954 9.1 43456.2 -1310.7  
 955 9.5 43459.4 -1336.0  
 956 9.4 43514.0 -1310.1  
 957 9.0 43541.8 -1336.2

958 9.6 43549.9 -1304.5  
 959 9.3 43553.7 -1331.0  
 960 10. 43636.5 -1342.1  
 961 8.5 43723.9 -1313.9  
 962 9.4 43808.8 -1333.4  
 963 9.0 43824.1 -1337.7  
 964 9.1 43837.8 -1309.6  
 965 9.7 43849.3 -1311.1  
 966 9.8 43858.4 -1329.9  
 967 9.2 43858.8 -1335.7

968 9.4 43903.6 -1326.0  
 969 7.7 43923.6 -1314.4  
 970 9.5 43937.0 -1321.1  
 971 8.5 43950.0 -1341.0  
 972 8.4 44006.2 -1350.7  
 973 9.6 44042.7 -1342.4  
 974 10. 44047.0 -1343.8  
 975 9.2 44107.8 -1350.2  
 976 9.7 44132.2 -1311.6  
 977 8.6 44214.7 -1330.1

978 13. 44228.7 -1347.8  
 979 9.1 44236.7 -1328.2  
 980 10. 44253.9 -1326.1  
 981 9.4 44257.5 -1318.8  
 982 9.1 44307.8 -1321.9  
 983 9.8 44316.8 -1311.1  
 984 9.0 44322.7 -1330.7  
 985 9.3 44329.4 -1324.6  
 986 8.5 44334.3 -1349.0  
 987 8.5 44341.3 -1353.0

988 9.8 44350.6 -1325.5  
 989 9.1 44417.5 -1342.8  
 990 9.1 44422.3 -1356.4  
 991 10. 44434.6 -1324.5  
 992 10. 44444.3 -1321.8  
 993 9.1 44444.7 -1358.1  
 994 9.8 44452.2 -1325.1  
 995 9.0 44457.1 -1317.2  
 996 8.7 44457.6 -1339.4  
 997 8.9 44457.9 -1340.5



998 9.5 44458.3 -1358.3  
 999 9.8 44523.2 -1345.2  
 1000 9.7 44526.0 -1309.0  
 1001 9.4 44536.4 -1334.5  
 1002 9.4 44536.5 -1310.3  
 1003 9.4 44536.6 -1330.8  
 1004 7.6 44542.3 -1330.8  
 1005 8.8 44547.2 -1345.8  
 1006 9.8 44556.5 -1316.6  
 1007 9.7 44601.8 -1355.4

1008 9.0 44611.4 -1300.5  
 1009 9.6 44632.2 -1247.1  
 1010 9.8 44644.6 -1218.4  
 1011 9.3 44656.9 -1319.9  
 1012 10. 44735.1 -1321.6  
 1013 10. 44736.7 -1315.4  
 1014 9.2 44823.6 -1309.1  
 1015 9.0 44839.3 -1322.9  
 1016 10. 44846.8 -1319.4  
 1017 10. 44851.9 -1314.8

1018 8.6 44857.4 -1317.2  
 1019 9.4 44902.7 -1346.3  
 1020 9.4 44907.4 -1314.0  
 1021 9.3 44915.5 -1352.6  
 1022 9.5 44917.2 -1312.9  
 1023 9.3 44921.4 -1350.6  
 1024 9.1 44936.1 -1322.7  
 1025 9.5 44958.0 -1356.7  
 1026 8.8 45006.1 -1356.2  
 1027 8.9 45009.6 -1302.9

1028 9.8 45017.7 -1335.9  
 1029 9.0 45024.7 -1351.8  
 1030 8.8 45047.2 -1340.2  
 1031 10. 45053.8 -1324.4  
 1032 7.7 45104.8 -1355.5  
 1033 9.1 45113.8 -1355.9  
 1034 10. 45125.2 -1321.7  
 1035 9.8 45146.4 -1328.6  
 1036 9.5 45149.9 -1329.7  
 1037 8.9 45155.1 -1303.4

1038 9.2 45210.5 -1343.8  
 1039 9.0 45213.7 -1310.6  
 1040 8.3 45224.2 -1316.9  
 1041 9.5 45237.2 -1341.7  
 1042 10. 45252.4 -1350.7  
 1043 9.4 45256.8 -1358.1  
 1044 9.4 45320.2 -1321.5  
 1045 10. 45348.7 -1321.7  
 1046 9.7 45357.5 -1356.8  
 1047 7.3 45400.7 -1343.6

1048 9.8 45400.8 -1307.3  
 1049 9.8 45424.9 -1340.9  
 1050 8.8 45438.5 -1318.2  
 1051 9.0 45504.0 -1305.0  
 1052 8.8 45605.8 -1352.2  
 1053 9.7 45609.9 -1302.8  
 1054 9.7 45704.0 -1349.1  
 1055 10. 45715.5 -1306.7  
 1056 9.1 45719.7 -1344.0  
 1057 9.0 45729.6 -1324.7

1058 8.3 45742.6 -1354.8  
 1059 7.9 45754.9 -1308.0  
 1060 10. 45900.5 -1322.6  
 1061 9.5 45908.7 -1343.8  
 1062 8.3 45928.8 -1350.9  
 1063 6.0 45955.1 -1319.1  
 1064 10. 50010.8 -1307.1  
 1065 9.5 50014.0 -1346.8  
 1066 9.5 50028.9 -1345.9  
 1067 9.5 50048.0 -1350.4

1068 9.5 50048.2 -1339.7  
 1069 10. 50068.8 -1300.0  
 1070 9.5 50065.9 -1346.8  
 1071 9.0 50117.7 -1337.0  
 1072 9.8 50118.7 -1304.0  
 1073 9.5 50128.8 -1308.0  
 1074 9.1 50152.3 -1355.7  
 1075 8.0 50209.7 -1306.2  
 1076 10. 50225.1 -1353.0  
 1077 9.3 50238.0 -1348.9

1078 9.0 50241.7 -1306.5  
 1079 10. 50313.8 -1341.3  
 1080 10. 50314.1 -1300.7  
 1081 10. 50324.0 -1349.0  
 1082 9.6 50332.8 -1354.8  
 1083 10. 50404.9 -1344.5  
 1084 9.5 50416.9 -1311.9  
 1085 9.5 50426.9 -1312.8  
 1086 9.0 50529.2 -1322.5  
 1087 10. 50532.7 -1305.5

1088 9.5 50547.9 -1345.7  
 1089 10. 50553.4 -1357.8  
 1090 9.0 50608.2 -1319.8  
 1091 10. 50624.2 -1322.5  
 1092 4.7 50631.8 -1306.8  
 1093 9.1 50644.7 -1305.6  
 1094 9.0 50657.2 -1350.2  
 1095 10. 50717.8 -1302.9  
 1096 9.5 50720.9 -1338.6  
 1097 8.0 50732.1 -1333.1

1098 10. 50754.1 -1315.3  
 1099 9.5 50804.9 -1341.7  
 1100 10. 50814.8 -1305.5  
 1101 10. 50817.7 -1300.1  
 1102 9.5 50826.2 -1359.3  
 1103 9.7 50830.5 -1323.5  
 1104 8.5 50903.1 -1341.2  
 1105 9.5 50917.1 -1347.8  
 1106 9.8 50917.4 -1321.8  
 1107 9.0 50927.0 -1305.4

1108 10. 50927.9 -1354.6  
 1109 9.2 50940.1 -1313.9  
 1110 9.0 50942.7 -1352.4  
 1111 9.5 50954.0 -1311.4  
 1112 9.5 50957.9 -1341.2  
 1113 9.4 50958.6 -1349.8  
 1114 10. 51016.9 -1343.5  
 1115 9.3 51022.2 -1319.3  
 1116 6.0 51100.9 -1340.5  
 1117 10. 51103.6 -1333.7

1118 9.7 51106.1 -1338.1  
 1119 9.8 51136.7 -1355.5  
 1120 10. 51154.8 -1303.6  
 1121 8.6 51200.4 -1357.2  
 1122 10. 51208.7 -1334.8  
 1123 8.5 51233.9 -1307.5  
 1124 10. 51239.5 -1327.6  
 1125 9.0 51244.2 -1316.5  
 1126 9.5 51245.5 -1343.8  
 1127 5.0 51253.3 -1319.7

1128 8.5 51258.6 -1344.7  
 1129 9.5 51314.0 -1309.5  
 1130 9.5 51322.5 -1329.4  
 1131 8.0 51352.6 -1352.0  
 1132 9.0 51354.1 -1315.5  
 1133 8.5 51408.0 -1345.5  
 1134 9.7 51504.0 -1309.8  
 1135 7.2 51512.4 -1354.0  
 1136 9.8 51531.2 -1318.3  
 1137 10. 51552.7 -1356.2

1138 9.5 51610.4 -1323.4  
 1139 9.5 51625.5 -1350.5  
 1140 9.5 51641.5 -1311.4  
 1141 9.2 51710.0 -1308.7  
 1142 10. 51720.7 -1352.4  
 1143 9.5 51739.1 -1309.6  
 1144 9.7 51744.1 -1310.1  
 1145 9.5 51751.9 -1302.5  
 1146 9.2 51812.0 -1340.9  
 1147 9.3 51839.3 -1352.5

1148 8.0 51858.2 -1315.3  
 1149 7.8 51922.8 -1301.9  
 1150 9.5 51940.0 -1306.8  
 1151 10. 51942.5 -1326.4  
 1152 7.5 52002.6 -1359.3  
 1153 9.3 52009.0 -1306.0  
 1154 9.0 52014.3 -1316.7  
 1155 10. 52044.7 -1330.1  
 1156 9.5 52045.0 -1313.1  
 1157 9.0 52053.4 -1355.1

1158 7.5 52053.5 -1341.7  
 1159 9.0 52130.0 -1341.5  
 1160 10. 52138.1 -1321.7  
 1161 9.0 52108.5 -1339.1  
 1162 9.3 52247.1 -1315.8  
 1163 9.5 52248.3 -1323.3  
 1164 8.5 52309.8 -1333.9  
 1165 10. 52340.6 -1354.0  
 1166 8.3 52340.9 -1303.6  
 1167 8.5 52344.9 -1336.6

1168 8.5 52350.0 -1341.5  
 1169 8.5 52400.1 -1345.1  
 1170 9.5 52413.5 -1322.9  
 1171 8.3 52415.1 -1351.0  
 1172 10. 52454.6 -1344.2  
 1173 10. 52457.6 -1329.5  
 1174 10. 52457.6 -1344.6  
 1175 10. 52501.6 -1329.1  
 1176 9.3 52528.4 -1352.3  
 1177 9.5 52536.2 -1347.4

1178 10. 52540.6 -1355.9  
 1179 9.2 52541.4 -1319.7  
 1180 9.0 52616.3 -1353.2  
 1181 8.5 52623.8 -1300.5  
 1182 10. 52645.9 -1304.9  
 1183 8.7 52701.0 -1337.9  
 1184 10. 52709.4 -1350.4  
 1185 9.0 52716.6 -1323.2  
 1186 9.0 52737.1 -1340.1  
 1187 9.8 52801.6 -1359.9

1188 10. 52859.2 -1311.5  
 1189 9.0 52906.6 -1324.4  
 1190 8.0 52913.5 -1320.4  
 1191 10. 52913.7 -1310.1  
 1192 8.5 52932.0 -1355.0  
 1193 9.5 52933.5 -1354.8  
 1194 10. 52952.2 -1309.3  
 1195 8.5 53025.2 -1345.7  
 1196 9.3 53048.5 -1320.8  
 1197 9.5 53103.5 -1322.2

1198 9.7 53103.9 -1302.0  
 1199 9.3 53124.3 -1348.5  
 1200 8.0 53159.0 -1301.5  
 1201 9.0 53205.4 -1351.1  
 1202 9.5 53210.7 -1326.5  
 1203 8.0 53211.5 -1337.6  
 1204 9.8 53234.9 -1331.5  
 1205 9.9 53240.2 -1333.7  
 1206 10. 53240.5 -1304.7  
 1207 9.8 53252.7 -1324.8

1208 9.8 53253.1 -1323.0  
 1209 8.7 53316.2 -1356.7  
 1210 9.5 53323.8 -1329.1  
 1211 9.0 53344.9 -1316.1  
 1212 10. 53350.4 -1351.8  
 1213 8.5 53407.2 -1345.5  
 1214 9.0 53422.1 -1305.4  
 1215 9.7 53442.2 -1310.3  
 1216 9.2 53452.9 -1301.4  
 1217 9.5 53505.4 -1351.0

1218 10. 53505.6 -1324.2  
 1219 7.5 53528.0 -1303.6  
 1220 9.5 53542.9 -1338.4  
 1221 9.0 53545.1 -1307.6  
 1222 9.5 53558.2 -1309.0  
 1223 9.5 53615.3 -1346.5  
 1224 9.5 53625.6 -1356.3  
 1225 9.7 53636.2 -1358.0  
 1226 9.0 53645.3 -1311.2  
 1227 10. 53701.3 -1343.3

1228 9.5 53719.8 -1325.5  
 1229 9.7 53735.2 -1341.1  
 1230 9.0 53756.1 -1304.9  
 1231 9.5 53761.4 -1313.4  
 1232 9.0 53807.2 -1308.1  
 1233 9.7 53825.0 -1301.3  
 1234 10. 53826.5 -1344.1  
 1235 9.5 53833.2 -1309.3  
 1236 10. 53842.5 -1349.9  
 1237 10. 53908.1 -1337.4

1238 9.8 53908.9 -1348.6  
 1239 8.5 53917.5 -1315.6  
 1240 9.4 53926.2 -1354.7  
 1241 9.0 53933.2 -1342.0  
 1242 9.2 53951.0 -1301.3  
 1243 9.3 53956.4 -1312.0  
 1244 9.5 54032.5 -1350.4  
 1245 8.5 54038.2 -1306.2  
 1246 9.7 54100.7 -1358.8  
 1247 9.3 54101.1 -1304.3

1248 10. 54105.7 -1357.9  
 1249 8.0 54113.0 -1334.2  
 1250 9.3 54121.1 -1337.8  
 1251 9.0 54122.4 -1312.3  
 1252 10. 54141.1 -1320.4  
 1253 7.0 54147.7 -1324.9  
 1254 9.0 54152.2 -1342.2  
 1255 9.5 54153.0 -1327.5  
 1256 9.3 54154.2 -1306.1  
 1257 9.8 54154.6 -1352.7

1258 9.0 54204.7 -1323.0  
 1259 9.3 54212.1 -1338.6  
 1260 10. 54222.1 -1302.5  
 1261 9.7 54227.7 -1323.0  
 1262 10. 54228.3 -1325.2  
 1263 10. 54244.3 -1345.3  
 1264 10. 54252.8 -1325.7  
 1265 10. 54303.0 -1335.1  
 1266 10. 54306.2 -1306.1  
 1267 9.8 54320.3 -1334.0

1268 9.4 54323.8 -1334.7  
 1269 10. 54342.1 -1328.2  
 1270 9.0 54342.1 -1308.6  
 1271 10. 54352.5 -1339.3  
 1272 9.0 54414.8 -1324.8  
 1273 9.5 54416.7 -1358.7  
 1274 9.4 54422.4 -1346.2  
 1275 10. 54427.6 -1302.5  
 1276 9.5 54427.7 -1323.9  
 1277 9.5 54437.4 -1348.0

1278 10. 54439.3 -1309.2  
 1279 10. 54446.5 -1318.0  
 1280 9.6 54455.9 -1348.0  
 1281 8.3 54458.0 -1350.4  
 1282 8.7 54503.5 -1356.1  
 1283 10. 54513.7 -1322.9  
 1284 9.5 54531.0 -1318.5  
 1285 8.3 54542.3 -1315.9  
 1286 10. 54545.7 -1338.8  
 1287 9.0 54552.9 -1339.4

1288 9.3 54554.0 -1350.4  
 1289 9.5 54601.5 -1319.4  
 1290 9.5 54634.4 -1319.5  
 1291 9.6 54639.0 -1303.1  
 1292 9.7 54649.8 -1334.5  
 1293 8.9 54659.7 -1330.0  
 1294 9.6 54710.4 -1300.8  
 1295 9.2 54733.3 -1357.6  
 1296 9.5 54733.4 -1309.6  
 1297 10. 54759.3 -1323.0

1298 10. 54807.5 -1332.9  
 1299 9.4 54822.4 -1328.5  
 1300 9.4 54844.4 -1311.1  
 1301 10. 54847.8 -1343.2  
 1302 10. 54850.8 -1303.4  
 1303 9.5 54854.7 -1339.1  
 1304 10. 54856.9 -1359.6  
 1305 7.5 54925.9 -1309.1  
 1306 7.8 55004.0 -1310.9  
 1307 9.5 55008.9 -1308.7

1308 10. 55017.7 -1300.7  
 1309 9.5 55021.5 -1317.4  
 1310 9.2 55025.0 -1353.8  
 1311 10. 55026.9 -1335.0  
 1312 9.5 55111.5 -1331.1  
 1313 10. 55133.9 -1349.4  
 1314 9.5 55151.0 -1356.8  
 1315 9.7 55203.0 -1350.5  
 1316 9.0 55326.0 -1358.5  
 1317 9.3 55326.8 -1354.3

1318 9.0 55403.1 -1317.0  
 1319 9.2 55413.0 -1313.0  
 1320 9.5 55424.4 -1328.2  
 1321 8.2 55438.4 -1301.9  
 1322 9.9 55442.1 -1342.3  
 1323 9.4 55450.6 -1335.2  
 1324 9.0 55506.9 -1303.4  
 1325 10. 55508.9 -1348.6  
 1326 10. 55518.8 -1300.4  
 1327 8.5 55533.9 -1302.1

1328 9.9 55543.8 -1355.8  
 1329 9.5 55544.0 -1311.5  
 1330 10. 55552.7 -1337.9  
 1331 9.3 55607.8 -1341.4  
 1332 10. 55632.7 -1339.6  
 1333 10. 55650.0 -1320.4  
 1334 10. 55651.7 -1304.7  
 1335 9.5 55658.1 -1356.1  
 1336 10. 55710.8 -1302.9  
 1337 9.7 55713.4 -1328.8

1338 8.8 55714.5 -1330.6  
 1339 8.9 55718.3 -1356.9  
 1340 10. 55729.3 -1322.6  
 1341 8.0 55733.7 -1341.4  
 1342 9.2 55738.3 -1355.6  
 1343 10. 55759.7 -1339.6  
 1344 8.5 55824.8 -1345.0  
 1345 9.3 55827.0 -1309.3  
 1346 10. 55837.0 -1320.0  
 1347 9.0 55841.6 -1324.7

1348 10. 55902.6 -1308.0  
 1349 9.5 55903.3 -1357.6  
 1350 7.8 55916.1 -1314.0  
 1351 10. 55942.1 -1348.2  
 1352 10. 55944.8 -1320.6  
 1353 9.0 55957.1 -1344.1  
 1354 8.8 55959.8 -1324.6  
 1355 9.3 60020.0 -1340.5  
 1356 10. 60020.6 -1354.3  
 1357 9.0 60026.7 -1312.4



-13 1358 6h00m

1358 10. 60028.8 -1359.8  
1359 9.3 60037.8 -1320.4  
1360 9.2 60044.8 -1322.2  
1361 9.2 60102.6 -1311.5  
1362 9.5 60116.6 -1311.5  
1363 9.5 60140.2 -1352.1  
1364 10. 60148.2 -1351.7  
1365 9.0 60214.5 -1304.4  
1366 8.0 60235.7 -1312.0  
1367 9.0 60250.0 -1337.3

1368 10. 60312.8 -1320.4  
1369 9.5 60314.2 -1353.4  
1370 10. 60319.6 -1305.2  
1371 10. 60348.2 -1353.4  
1372 9.5 60349.6 -1306.9  
1373 10. 60353.0 -1337.8  
1374 9.3 60359.9 -1327.1  
1375 8.8 60425.5 -1345.9  
1376 10. 60446.9 -1330.1  
1377 9.6 60454.8 -1342.8

1378 8.6 60500.2 -1302.6  
1379 10. 60506.4 -1308.7  
1380 8.7 60508.5 -1311.5  
1381 10. 60521.3 -1316.0  
1382 9.5 60526.4 -1337.8  
1383 9.0 60527.1 -1334.9  
1384 8.9 60528.1 -1306.9  
1385 10. 60530.0 -1315.8  
1386 10. 60544.7 -1313.6  
1387 7.5 60550.3 -1335.6

1388 9.4 60606.2 -1357.8  
1389 9.7 60613.3 -1318.8  
1390 9.5 60620.9 -1311.6  
1391 9.5 60631.0 -1343.0  
1392 9.1 60640.4 -1338.5  
1393 9.3 60641.7 -1359.2  
1394 9.3 60648.3 -1358.2  
1395 9.8 60648.6 -1314.0  
1396 9.0 60649.2 -1343.9  
1397 8.8 60653.9 -1332.4

1398 9.0 60655.8 -1326.1  
1399 9.5 60656.4 -1340.1  
1400 9.4 60719.3 -1310.6  
1401 9.4 60727.1 -1351.5  
1402 9.9 60744.7 -1352.9  
1403 10. 60747.1 -1354.3  
1404 9.6 60751.9 -1341.5  
1405 9.5 60810.7 -1332.8  
1406 9.2 60818.7 -1305.1  
1407 9.4 60835.9 -1316.7

1408 9.0 60843.0 -1326.1  
1409 9.2 60847.3 -1318.5  
1410 9.4 60859.4 -1304.1  
1411 5.2 60905.8 -1340.4  
1412 10. 60923.3 -1350.6  
1413 9.7 60925.6 -1302.3  
1414 9.2 60929.6 -1303.0  
1415 10. 60937.1 -1317.1  
1416 9.8 60937.6 -1353.4  
1417 9.2 60944.3 -1356.1

1418 9.8 60949.7 -1332.8  
1419 9.0 60953.5 -1349.3  
1420 9.2 61000.7 -1356.2  
1421 10. 61020.5 -1337.1  
1422 9.9 61021.4 -1303.1  
1423 9.5 61033.2 -1317.0  
1424 9.4 61040.9 -1340.0  
1425 9.4 61045.1 -1355.5  
1426 9.4 61057.1 -1333.2  
1427 9.4 61103.9 -1301.9

1428 9.4 61104.0 -1324.9  
1429 9.8 61106.5 -1326.0  
1430 10. 61127.6 -1351.4  
1431 9.4 61131.8 -1348.5  
1432 9.7 61134.1 -1328.7  
1433 9.1 61141.3 -1311.4  
1434 9.4 61143.5 -1349.4  
1435 10. 61147.4 -1315.4  
1436 10. 61155.2 -1312.2  
1437 10. 61216.8 -1341.1

1438 9.2 61221.2 -1343.8  
1439 9.8 61233.7 -1357.0  
1440 9.8 61238.2 -1316.6  
1441 9.1 61255.3 -1336.6  
1442 9.3 61256.1 -1340.0  
1443 8.5 61259.4 -1329.6  
1444 9.0 61259.6 -1328.8  
1445 9.4 61303.7 -1318.4  
1446 9.5 61309.2 -1305.6  
1447 9.8 61310.4 -1300.0

1448 10. 61313.8 -1310.0  
1449 9.8 61315.6 -1329.2  
1450 7.0 61320.6 -1355.9  
1451 9.8 61326.0 -1321.2  
1452 9.1 61337.1 -1311.1  
1453 9.5 61342.9 -1320.3  
1454 9.0 61405.0 -1346.4  
1455 9.9 61409.8 -1326.1  
1456 9.0 61441.8 -1337.0  
1457 8.2 61443.3 -1358.5

1458 9.5 61458.0 -1346.7  
1459 9.5 61508.7 -1335.5  
1460 9.5 61511.8 -1336.8  
1461 9.4 61516.8 -1316.6  
1462 9.0 61517.9 -1330.1  
1463 10. 61523.6 -1318.0  
1464 10. 61526.1 -1316.6  
1465 10. 61529.9 -1315.3  
1466 9.7 61534.4 -1325.8  
1467 9.7 61541.3 -1354.5

1468 10. 61546.5 -1354.8  
1469 9.8 61546.5 -1325.8  
1470 10. 61554.9 -1321.5  
1471 10. 61604.8 -1308.0  
1472 9.2 61618.1 -1353.7  
1473 9.3 61628.3 -1309.7  
1474 10. 61637.0 -1320.7  
1475 9.1 61640.2 -1333.8  
1476 9.1 61712.5 -1340.4  
1477 9.0 61718.7 -1308.1

1478 10. 61735.6 -1354.0  
1479 9.5 61739.1 -1326.0  
1480 9.5 61744.9 -1332.3  
1481 10. 61745.4 -1305.0  
1482 9.4 61751.1 -1318.8  
1483 8.0 61813.3 -1309.0  
1484 9.8 61819.3 -1337.5  
1485 9.4 61821.8 -1359.2  
1486 9.5 61823.2 -1307.5  
1487 9.8 61850.0 -1320.0

1488 9.6 61851.6 -1327.5  
1489 9.0 61853.1 -1316.0  
1490 9.3 61920.6 -1303.4  
1491 9.5 61931.3 -1339.8  
1492 9.0 61942.6 -1340.7  
1493 8.5 61943.8 -1338.4  
1494 9.0 61954.4 -1328.1  
1495 9.5 62019.7 -1303.8  
1496 10. 62025.8 -1348.4  
1497 9.8 62046.0 -1321.6

1498 9.8 62050.0 -1348.4  
1499 9.5 62050.8 -1336.4  
1500 9.8 62055.5 -1325.6  
1501 9.4 62112.2 -1309.0  
1502 9.5 62114.9 -1315.3  
1503 9.4 62116.7 -1301.5  
1504 7.4 62118.6 -1304.3  
1505 10. 62121.8 -1334.5  
1506 9.4 62128.3 -1339.5  
1507 9.1 62141.4 -1344.4

1508 10. 62200.1 -1350.8  
1509 9.5 62214.6 -1314.1  
1510 9.4 62215.8 -1317.4  
1511 9.4 62221.5 -1323.8  
1512 9.5 62222.2 -1321.0  
1513 9.8 62246.9 -1341.3  
1514 9.8 62300.2 -1323.6  
1515 10. 62320.6 -1302.1  
1516 9.8 62322.8 -1310.5  
1517 9.0 62328.9 -1341.1

1518 9.2 62332.0 -1324.6  
1519 6.3 62354.6 -1303.2  
1520 9.1 62409.0 -1345.6  
1521 9.0 62414.8 -1334.4  
1522 9.5 62421.6 -1353.7  
1523 7.7 62437.3 -1330.4  
1524 9.0 62438.9 -1323.7  
1525 9.1 62448.5 -1319.7  
1526 9.0 62453.3 -1336.9  
1527 9.9 62456.0 -1357.7

1528 9.6 62459.2 -1371.5  
1529 9.8 62504.4 -1345.5  
1530 10. 62517.1 -1324.8  
1531 10. 62518.8 -1325.0  
1532 9.3 62521.3 -1337.4  
1533 10. 62525.2 -1330.5  
1534 9.3 62543.9 -1357.2  
1535 10. 62549.0 -1306.9  
1536 8.9 62556.2 -1312.3  
1537 9.2 62602.3 -1319.3

1538 9.5 62604.2 -1314.1  
1539 9.8 62609.3 -1339.7  
1540 10. 62611.0 -1346.8  
1541 10. 62613.1 -1353.5  
1542 8.8 62635.4 -1359.6  
1543 9.5 62644.0 -1320.9  
1544 9.4 62654.7 -1307.6  
1545 9.0 62700.9 -1314.2  
1546 8.9 62704.2 -1333.2  
1547 9.7 62717.4 -1320.3

1548 9.2 62725.9 -1315.3  
1549 10. 62747.1 -1326.5  
1550 9.5 62752.0 -1356.1  
1551 9.8 62754.6 -1300.2  
1552 10. 62819.6 -1334.4  
1553 9.0 62823.6 -1353.8  
1554 9.9 62827.3 -1333.4  
1555 9.8 62836.2 -1342.6  
1556 8.8 62844.8 -1310.9  
1557 10. 62858.7 -1311.6

1558 9.8 62904.2 -1359.5  
1559 9.0 62904.8 -1350.1  
1560 8.5 62909.3 -1338.2  
1561 9.0 62931.4 -1341.4  
1562 9.0 62933.7 -1318.8  
1563 9.8 62934.4 -1312.1  
1564 9.8 62938.1 -1326.7  
1565 9.4 62945.0 -1310.3  
1566 10. 63000.5 -1309.1  
1567 9.2 63000.9 -1342.7

1568 9.1 63001.4 -1305.1  
1569 8.5 63003.9 -1340.2  
1570 6.0 63006.0 -1312.0  
1571 9.1 63012.7 -1320.9  
1572 9.0 63027.5 -1340.8  
1573 10. 63032.8 -1338.5  
1574 9.0 63055.1 -1352.5  
1575 9.2 63111.7 -1332.1  
1576 9.5 63122.6 -1350.9  
1577 9.0 63123.5 -1320.5

1578 9.7 63124.3 -1328.7  
1579 9.8 63129.6 -1307.3  
1580 8.9 63129.7 -1358.4  
1581 9.3 63139.5 -1317.1  
1582 9.6 63140.2 -1336.3  
1583 9.5 63141.3 -1338.0  
1584 9.0 63142.1 -1341.5  
1585 8.2 63201.6 -1307.6  
1586 9.0 63202.7 -1301.1  
1587 9.0 63221.9 -1355.3

1588 10. 63222.0 -1350.6  
1589 10. 63222.8 -1327.6  
1590 10. 63236.2 -1336.0  
1591 9.8 63241.1 -1354.4  
1592 10. 63247.7 -1354.8  
1593 9.6 63258.9 -1346.3  
1594 9.4 63301.4 -1301.5  
1595 9.8 63312.2 -1346.8  
1596 8.7 63320.5 -1349.9  
1597 9.0 63322.9 -1355.6

1598 9.1 63324.0 -1311.2  
1599 9.8 63326.5 -1315.8  
1600 9.5 63332.9 -1323.3  
1601 9.6 63342.8 -1338.0  
1602 9.7 63351.9 -1300.9  
1603 9.7 63358.0 -1325.3  
1604 8.5 63359.8 -1309.3  
1605 9.3 63419.4 -1313.1  
1606 8.5 63433.7 -1339.6  
1607 9.9 63434.3 -1330.9

1608 9.0 63437.5 -1350.5  
1609 8.0 63451.0 -1348.3  
1610 9.8 63500.1 -1317.6  
1611 10. 63508.0 -1329.1  
1612 9.8 63514.8 -1341.3  
1613 9.3 63521.2 -1338.7  
1614 9.2 63526.9 -1320.8  
1615 9.7 63539.2 -1309.0  
1616 9.2 63542.5 -1307.3  
1617 9.4 63543.8 -1314.2

1618 9.7 63545.1 -1312.0  
1619 9.0 63609.8 -1316.2  
1620 10. 63611.7 -1314.6  
1621 9.5 63617.9 -1302.4  
1622 7.3 63622.6 -1333.5  
1623 9.3 63636.4 -1302.3  
1624 8.8 63636.9 -1343.1  
1625 8.3 63652.5 -1302.9  
1626 8.8 63702.7 -1342.6  
1627 9.8 63702.8 -1356.5

1628 9.5 63711.1 -1320.2  
1629 10. 63714.8 -1356.9  
1630 9.9 63734.2 -1332.1  
1631 9.5 63737.5 -1324.8  
1632 9.5 63750.9 -1301.1  
1633 10. 63754.5 -1348.0  
1634 9.7 63758.3 -1308.7  
1635 9.2 63822.9 -1311.5  
1636 8.7 63819.5 -1314.3  
1637 9.8 63822.9 -1344.2

1638 9.0 63825.8 -1303.5  
1639 9.3 63828.4 -1323.4  
1640 9.5 63903.5 -1313.0  
1641 8.8 63924.8 -1341.2  
1642 9.9 63935.3 -1339.1  
1643 9.6 63959.5 -1352.5  
1644 9.8 63955.5 -1354.2  
1645 9.5 64004.9 -1300.6  
1646 9.0 64025.9 -1301.0  
1647 8.9 64030.9 -1320.3

1648 9.4 64045.2 -1354.4  
1649 10. 64046.2 -1309.1  
1650 9.4 64047.0 -1317.0  
1651 9.5 64050.0 -1349.4  
1652 9.3 64052.6 -1356.7  
1653 9.8 64058.0 -1352.3  
1654 10. 64100.0 -1304.1  
1655 10. 64115.8 -1316.9  
1656 9.5 64117.1 -1312.3  
1657 7.8 64118.7 -1333.4

1658 9.4 64127.8 -1315.6  
1659 9.9 64137.4 -1311.8  
1660 8.3 64141.1 -1316.5  
1661 8.4 64143.2 -1318.6  
1662 9.4 64144.3 -1328.5  
1663 9.1 64156.6 -1355.4  
1664 9.6 64203.7 -1333.2  
1665 9.8 64208.3 -1359.4  
1666 9.6 64209.7 -1327.1  
1667 9.6 64213.5 -1321.7

1668 8.9 64221.2 -1358.2  
1669 8.6 64242.1 -1332.5  
1670 9.0 64243.8 -1314.0  
1671 9.5 64255.5 -1331.7  
1672 9.0 64301.9 -1348.5  
1673 10. 64304.2 -1331.8  
1674 9.0 64304.3 -1352.2  
1675 10. 64308.6 -1318.9  
1676 9.8 64325.5 -1319.4  
1677 8.3 64326.4 -1327.2

1678 9.7 64327.8 -1341.5  
1679 9.8 64340.6 -1346.2  
1680 9.8 64341.7 -1323.1  
1681 10. 64345.2 -1336.6  
1682 8.0 64348.6 -1356.9  
1683 9.4 64356.4 -1348.7  
1684 9.6 64417.5 -1305.1  
1685 9.1 64419.3 -1341.9  
1686 8.5 64421.2 -1303.5  
1687 9.0 64427.4 -1343.6

1688 9.0 64427.5 -1319.1  
1689 10. 64445.1 -1306.8  
1690 9.6 64454.6 -1333.0  
1691 9.5 64500.4 -1311.7  
1692 10. 64505.6 -1345.6  
1693 9.1 64519.0 -1303.0  
1694 8.2 64530.9 -1302.4  
1695 10. 64531.7 -1312.6  
1696 9.5 64534.8 -1330.7  
1697 10. 64542.8 -1341.2

1698 9.5 64559.0 -1328.2  
1699 9.5 64611.7 -1358.8  
1700 10. 64637.5 -1353.1  
1701 9.1 64638.3 -1329.7  
1702 9.4 64647.2 -1341.2  
1703 9.4 64648.9 -1342.1  
1704 10. 64653.2 -1341.8  
1705 8.9 64656.0 -1331.5  
1706 10. 64656.6 -1347.1  
1707 9.8 64659.4 -1353.5

1708 9.5 64701.8 -1322.5  
1709 7.8 64706.9 -1301.2  
1710 8.9 64709.7 -1300.1  
1711 9.8 64710.9 -1346.2  
1712 8.8 64711.0 -1350.8  
1713 9.5 64712.0 -1301.8  
1714 9.4 64712.7 -1336.1  
1715 10. 64715.1 -1306.5  
1716 9.4 64728.0 -1358.9  
1717 8.7 64729.6 -1334.1

-13 1717 6h47m



-13 1718 6h47m

1718 8.2 64731.2 -1327.3  
1719 8.2 64751.8 -1334.4  
1720 9.3 64752.1 -1312.9  
1721 10. 64807.9 -1336.9  
1722 8.1 64809.1 -1358.5  
1723 9.7 64815.9 -1318.3  
1724 9.8 64817.3 -1314.8  
1725 9.4 64819.5 -1327.6  
1726 9.5 64826.7 -1325.0  
1727 9.4 64832.2 -1309.5

1728 10. 64842.0 -1328.4  
1729 8.9 64844.3 -1320.2  
1730 9.8 64845.4 -1313.5  
1731 9.8 64845.5 -1348.3  
1732 9.3 64858.0 -1347.9  
1733 10. 64901.4 -1346.3  
1734 10. 64907.6 -1313.9  
1735 8.5 64909.3 -1333.9  
1736 9.6 64916.5 -1258.7  
1737 9.7 64917.7 -1213.0

1738 9.8 64922.0 -1351.6  
1739 9.5 64924.4 -1301.8  
1740 9.5 64926.1 -1331.5  
1741 5.0 64927.6 -1351.6  
1742 9.8 64930.4 -1359.9  
1743 9.0 65003.2 -1325.9  
1744 10. 65007.8 -1342.5  
1745 10. 65011.0 -1336.8  
1746 10. 65015.7 -1328.1  
1747 9.7 65016.5 -1307.5

1748 9.8 65018.4 -1300.0  
1749 10. 65031.8 -1339.8  
1750 9.3 65042.3 -1310.9  
1751 10. 65119.2 -1321.6  
1752 10. 65129.3 -1331.2  
1753 9.3 65150.8 -1310.1  
1754 8.4 65157.7 -1340.1  
1755 9.2 65206.8 -1240.5  
1756 9.6 65208.0 -1304.4  
1757 10. 65214.3 -1340.7

1758 9.2 65216.1 -1352.4  
1759 10. 65222.9 -1302.8  
1760 9.8 65223.2 -1316.6  
1761 9.7 65223.6 -1351.0  
1762 9.8 65226.0 -1310.2  
1763 9.7 65245.1 -1313.9  
1764 8.3 65249.0 -1330.4  
1765 10. 65250.9 -1327.8  
1766 10. 65253.4 -1308.8  
1767 9.8 65300.5 -1357.9

1768 9.8 65305.4 -1301.0  
1769 8.8 65320.0 -1321.1  
1770 8.5 65333.9 -1323.5  
1771 9.0 65341.2 -1336.9  
1772 9.8 65404.1 -1314.6  
1773 9.8 65410.6 -1324.4  
1774 9.7 65426.2 -1210.1  
1775 9.8 65426.4 -1300.4  
1776 9.9 65428.7 -1304.9  
1777 8.8 65452.1 -1314.7

1778 9.4 65452.2 -1300.5  
1779 9.5 65503.5 -1325.6  
1780 9.6 65508.6 -1328.7  
1781 9.8 65512.6 -1308.1  
1782 8.9 65518.8 -1318.9  
1783 9.4 65521.7 -1314.0  
1784 9.3 65532.1 -1330.3  
1785 9.3 65534.8 -1337.8  
1786 10. 65540.4 -1342.3  
1787 9.1 65548.1 -1259.9

1788 9.3 65555.0 -1331.8  
1789 9.1 65559.6 -1329.0  
1790 10. 65604.4 -1357.6  
1791 8.0 65613.5 -1301.0  
1792 9.5 65617.3 -1318.0  
1793 9.2 65623.4 -1312.4  
1794 9.2 65625.0 -1316.4  
1795 9.1 65625.8 -1357.5  
1796 9.7 65628.3 -1359.0  
1797 9.8 65645.2 -1331.8

1798 9.8 65648.1 -1303.6  
1799 9.8 65658.4 -1341.9  
1800 9.2 65706.9 -1345.5  
1801 9.4 65709.9 -1345.7  
1802 8.3 65734.1 -1331.4  
1803 9.3 65740.0 -1359.9  
1804 9.0 65742.2 -1334.8  
1805 9.8 65743.8 -1317.8  
1806 8.8 65759.9 -1343.9  
1807 9.1 65817.6 -1358.0

1808 8.0 65821.5 -1345.7  
1809 8.8 65825.1 -1340.3  
1810 10. 65846.9 -1355.6  
1811 9.3 65847.7 -1308.4  
1812 9.5 65859.5 -1326.3  
1813 9.3 65905.9 -1320.2  
1814 8.0 65908.3 -1336.5  
1815 9.1 65914.3 -1302.6  
1816 9.3 65919.4 -1320.7  
1817 9.8 65921.4 -1353.5

1818 9.3 65926.2 -1315.8  
1819 9.0 65946.4 -1342.2  
1820 9.8 70000.3 -1313.2  
1821 9.3 70001.2 -1354.8  
1822 9.0 70002.7 -1344.0  
1823 10. 70005.5 -1313.9  
1824 9.3 70016.5 -1353.9  
1825 9.0 70017.2 -1327.0  
1826 9.7 70037.9 -1323.8  
1827 8.8 70044.0 -1213.7

1828 8.0 70044.2 -1349.3  
1829 9.8 70053.0 -1301.8  
1830 9.2 70055.3 -1338.6  
1831 8.3 70056.9 -1329.4  
1832 10. 70057.9 -1221.1  
1833 9.4 70109.8 -1346.3  
1834 10. 70110.4 -1355.8  
1835 9.4 70111.2 -1337.5  
1836 9.8 70127.7 -1223.0  
1837 10. 70131.3 -1339.7

1838 9.1 70132.9 -1200.5  
1839 9.5 70134.2 -1300.3  
1840 9.5 70138.8 -1339.0  
1841 9.0 70153.1 -1327.7  
1842 8.5 70156.5 -1346.2  
1843 9.4 70217.7 -1331.6  
1844 9.4 70234.1 -1305.6  
1845 9.8 70236.7 -1353.7  
1846 9.2 70238.9 -1242.1  
1847 10. 70251.6 -1352.2

1848 9.8 70305.7 -1345.5  
1849 9.5 70307.3 -1320.9  
1850 9.1 70312.6 -1354.8  
1851 7.0 70317.9 -1323.7  
1852 8.8 70322.0 -1321.5  
1853 9.2 70328.8 -1322.4  
1854 9.8 70330.0 -1317.9  
1855 9.3 70343.8 -1319.5  
1856 9.8 70345.8 -1358.2  
1857 9.0 70356.0 -1349.5

1858 9.8 70359.4 -1320.6  
1859 9.5 70402.9 -1358.2  
1860 9.5 70403.3 -1329.5  
1861 9.8 70406.9 -1355.0  
1862 9.4 70432.6 -1341.8  
1863 9.1 70441.7 -1333.9  
1864 9.2 70451.1 -1353.2  
1865 10. 70503.4 -1323.3  
1866 9.2 70511.3 -1337.6  
1867 9.5 70515.2 -1338.8

1868 9.6 70528.5 -1326.6  
1869 9.6 70534.9 -1255.1  
1870 9.3 70536.5 -1315.1  
1871 9.7 70540.8 -1315.4  
1872 9.8 70544.9 -1342.5  
1873 9.3 70547.9 -1313.0  
1874 9.7 70549.3 -1355.5  
1875 10. 70551.5 -1336.0  
1876 9.9 70558.2 -1341.3  
1877 9.1 70559.1 -1332.3

1878 9.8 70559.8 -1318.3  
1879 9.2 70601.1 -1339.0  
1880 9.8 70612.6 -1304.8  
1881 9.4 70625.1 -1310.3  
1882 9.8 70628.7 -1335.2  
1883 9.1 70634.8 -1316.2  
1884 10. 70641.8 -1329.5  
1885 9.5 70646.7 -1303.3  
1886 10. 70658.3 -1216.2  
1887 9.4 70710.5 -1347.0

1888 9.2 70713.4 -1309.1  
1889 9.8 70720.5 -1328.9  
1890 9.7 70720.6 -1319.0  
1891 9.5 70736.0 -1225.8  
1892 9.8 70738.2 -1315.1  
1893 9.8 70742.9 -1310.7  
1894 9.5 70744.0 -1303.9  
1895 9.1 70754.1 -1353.7  
1896 9.8 70801.6 -1308.0  
1897 9.9 70802.4 -1312.7

1898 9.8 70835.4 -1355.1  
1899 9.1 70837.5 -1309.3  
1900 9.8 70841.6 -1328.7  
1901 8.7 70844.7 -1333.0  
1902 8.7 70850.2 -1319.1  
1903 10. 70904.3 -1314.2  
1904 8.5 70908.6 -1302.4  
1905 8.0 70921.9 -1341.3  
1906 8.3 70925.4 -1341.6  
1907 10. 70925.6 -1308.7

1908 8.9 70930.5 -1328.4  
1909 10. 70940.3 -1310.2  
1910 9.3 70951.7 -1331.1  
1911 10. 70953.0 -1303.5  
1912 10. 70958.9 -1245.0  
1913 7.5 71000.2 -1301.7  
1914 7.3 71006.4 -1225.5  
1915 9.8 71007.4 -1337.0  
1916 8.0 71016.6 -1351.4  
1917 9.8 71023.9 -1321.8

1918 9.1 71024.1 -1341.3  
1919 7.8 71028.7 -1343.9  
1920 8.8 71045.3 -1339.6  
1921 10. 71047.8 -1216.2  
1922 9.7 71112.6 -1319.8  
1923 9.0 71115.0 -1326.6  
1924 7.7 71116.7 -1338.0  
1925 8.3 71122.4 -1326.6  
1926 8.3 71122.6 -1326.2  
1927 9.3 71122.8 -1257.8

1928 9.4 71125.4 -1325.5  
1929 9.6 71129.9 -1222.3  
1930 9.7 71140.6 -1320.0  
1931 10. 71142.6 -1343.4  
1932 10. 71143.8 -1246.7  
1933 10. 71151.0 -1301.3  
1934 9.5 71201.2 -1259.8  
1935 9.0 71203.9 -1259.1  
1936 9.3 71213.7 -1310.1  
1937 9.8 71213.8 -1309.0

1938 9.2 71218.4 -1322.5  
1939 9.0 71219.1 -1311.7  
1940 5.8 71225.0 -1337.3  
1941 8.8 71229.0 -1321.9  
1942 9.4 71235.7 -1335.6  
1943 10. 71245.6 -1350.0  
1944 9.2 71253.5 -1318.0  
1945 9.4 71255.1 -1327.7  
1946 9.6 71300.7 -1311.7  
1947 9.3 71309.5 -1328.4

1948 8.6 71310.9 -1330.4  
1949 9.7 71316.2 -1356.3  
1950 9.6 71322.7 -1348.0  
1951 8.2 71328.2 -1344.1  
1952 9.3 71339.5 -1305.9  
1953 8.5 71341.8 -1316.4  
1954 9.7 71343.9 -1313.1  
1955 10. 71351.2 -1312.1  
1956 9.1 71355.9 -1322.5  
1957 10. 71401.3 -1311.1

1958 9.5 71415.0 -1226.7  
1959 10. 71415.5 -1349.5  
1960 9.4 71424.2 -1315.2  
1961 9.3 71426.3 -1307.0  
1962 9.2 71430.1 -1321.5  
1963 8.8 71433.9 -1347.7  
1964 9.5 71437.6 -1328.1  
1965 9.8 71442.7 -1320.8  
1966 9.7 71453.6 -1328.6  
1967 9.2 71454.2 -1312.1

1968 9.9 71500.6 -1344.3  
1969 9.2 71507.4 -1326.0  
1970 9.1 71522.5 -1305.1  
1971 10. 71525.2 -1302.5  
1972 9.1 71550.9 -1355.9  
1973 9.8 71551.3 -1333.5  
1974 9.7 71605.7 -1311.6  
1975 9.5 71610.9 -1357.5  
1976 9.0 71620.5 -1341.8  
1977 9.0 71633.1 -1324.6

1978 10. 71639.4 -1356.7  
1979 8.0 71641.3 -1304.7  
1980 9.0 71645.9 -1301.6  
1981 7.8 71657.6 -1349.1  
1982 9.8 71658.2 -1333.0  
1983 9.3 71700.1 -1310.5  
1984 9.2 71702.9 -1338.7  
1985 9.9 71708.4 -1356.4  
1986 9.8 71718.6 -1324.5  
1987 10. 71731.2 -1331.0

-13 2077 7h25m

1988 9.3 71736.8 -1313.5  
1989 9.5 71737.5 -1322.3  
1990 8.8 71743.6 -1355.8  
1991 10. 71744.8 -1306.2  
1992 9.0 71756.0 -1342.4  
1993 9.8 71800.3 -1333.0  
1994 9.7 71809.5 -1313.1  
1995 9.8 71810.9 -1336.0  
1996 9.0 71811.0 -1350.8  
1997 9.5 71818.7 -1331.9

1998 9.5 71818.8 -1345.0  
1999 9.4 71822.6 -1320.7  
2000 9.5 71823.5 -1305.3  
2001 6.5 71828.6 -1327.9  
2002 9.6 71835.0 -1302.9  
2003 8.9 71836.2 -1348.4  
2004 9.8 71840.3 -1315.2  
2005 9.2 71845.9 -1355.5  
2006 9.1 71852.1 -1310.8  
2007 8.5 71846.8 -1331.1

2008 7.2 71915.8 -1353.4  
2009 9.0 71923.2 -1350.5  
2010 10. 71937.2 -1357.8  
2011 9.8 71937.3 -1309.3  
2012 9.2 71949.8 -1352.5  
2013 9.9 71952.4 -1321.5  
2014 9.1 72002.7 -1321.5  
2015 9.7 72004.5 -1312.8  
2016 9.2 72004.9 -1220.9  
2017 9.6 72007.8 -1332.8

2018 9.5 72024.2 -1305.7  
2019 9.8 72024.9 -1348.5  
2020 10. 72031.2 -1326.1  
2021 10. 72045.2 -1353.6  
2022 9.4 72045.7 -1343.3  
2023 9.4 72046.1 -1337.3  
2024 8.6 72052.8 -1320.0  
2025 10. 72056.1 -1320.1  
2026 9.8 72105.6 -1313.9  
2027 9.4 72119.5 -1344.0

2028 9.8 72127.4 -1333.0  
2029 9.2 72133.1 -1324.1  
2030 10. 72156.2 -1347.3  
2031 10. 72156.4 -1343.9  
2032 10. 72157.6 -1333.0  
2033 9.4 72200.1 -1319.3  
2034 9.0 72200.5 -1324.3  
2035 8.9 72202.7 -1330.8  
2036 9.5 72203.6 -1335.6  
2037 9.4 72212.0 -1353.8

2038 9.5 72217.5 -1312.2  
2039 9.8 72218.9 -1357.0  
2040 9.0 72225.7 -1328.5  
2041 10. 72229.6 -1304.0  
2042 9.5 72237.5 -1346.2  
2043 9.8 72238.4 -1342.9  
2044 8.7 72246.6 -1310.7  
2045 9.6 72259.6 -1307.6  
2046 10. 72304.1 -1304.5  
2047 9.5 72306.2 -1328.4

2048 9.7 72306.9 -1337.8  
2049 9.3 72310.3 -1340.1  
2050 9.4 72310.7 -1313.2  
2051 7.0 72313.4 -1341.3  
2052 9.0 72313.4 -1356.5  
2053 9.0 72316.3 -1337.2  
2054 10. 72332.2 -1337.3  
2055 9.3 72337.3 -1320.2  
2056 9.5 72339.7 -1358.7  
2057 10. 72339.4 -1337.9

2058 8.6 72354.6 -1307.8  
2059 9.8 72355.4 -1345.9  
2060 9.7 72356.0 -1315.1  
2061 9.9 72410.7 -1331.9  
2062 9.6 72411.1 -1307.0  
2063 9.1 72415.2 -1310.3  
2064 9.2 72417.1 -1317.8  
2065 9.8 72425.0 -1356.6  
2066 9.5 72431.4 -1309.1  
2067 9.8 72437.7 -1311.7

2068 8.4 72442.0 -1320.8  
2069 9.2 72449.8 -1335.4  
2070 9.8 72459.3 -1307.5  
2071 9.5 72500.0 -1346.8  
2072 9.4 72503.6 -1331.8  
2073 9.2 72505.0 -1326.2  
2074 10. 72505.8 -1302.7  
2075 9.8 72514.3 -1356.4  
2076 9.0 72520.3 -1349.7  
2077 10. 72537.2 -1336.5



-13 2078 7h25m

2078 10. 72543.7 -1318.2  
2079 9.0 72559.5 -1324.0  
2080 9.6 72601.5 -1342.3  
2081 9.8 72603.7 -1335.2  
2082 9.3 72606.8 -1313.3  
2083 9.3 72607.6 -1342.9  
2084 8.3 72625.5 -1306.5  
2085 9.1 72632.4 -1322.2  
2086 9.4 72636.8 -1359.8  
2087 9.8 72643.7 -1330.3  
  
2088 9.5 72645.9 -1332.9  
2089 10. 72647.1 -1344.1  
2090 9.8 72651.3 -1336.1  
2091 9.6 72652.5 -1357.6  
2092 9.5 72653.5 -1328.1  
2093 9.6 72654.2 -1319.3  
2094 9.5 72656.2 -1317.2  
2095 10. 72701.6 -1326.8  
2096 9.0 72707.9 -1343.4  
2097 8.7 72710.0 -1322.8  
  
2098 9.1 72717.1 -1308.6  
2099 9.8 72739.0 -1348.4  
2100 9.8 72739.2 -1319.4  
2101 7.2 72747.6 -1333.3  
2102 9.3 72758.1 -1338.2  
2103 9.4 72804.3 -1339.1  
2104 8.2 72812.0 -1351.2  
2105 9.8 72817.7 -1312.3  
2106 9.6 72817.8 -1320.3  
2107 9.4 72823.4 -1344.0  
  
2108 9.4 72837.3 -1329.8  
2109 8.0 72840.6 -1343.9  
2110 9.7 72849.4 -1305.6  
2111 8.6 72854.1 -1330.6  
2112 9.4 72922.3 -1317.9  
2113 9.0 72928.9 -1313.6  
2114 9.8 72930.4 -1330.8  
2115 9.3 72934.4 -1300.0  
2116 9.6 72937.1 -1352.8  
2117 10. 72943.9 -1321.4  
  
2118 9.6 72946.7 -1354.9  
2119 9.0 72951.8 -1355.6  
2120 9.0 72952.9 -1344.1  
2121 9.3 72954.2 -1348.9  
2122 9.8 72954.5 -1356.3  
2123 9.7 73004.2 -1331.8  
2124 9.0 73006.3 -1341.0  
2125 9.1 73008.4 -1303.2  
2126 9.5 73015.2 -1335.4  
2127 9.0 73025.1 -1333.2  
  
2128 9.3 73025.6 -1329.2  
2129 9.7 73026.1 -1306.5  
2130 10. 73027.0 -1335.4  
2131 10. 73030.3 -1336.6  
2132 10. 73033.3 -1302.4  
2133 9.8 73044.5 -1329.9  
2134 9.2 73054.8 -1318.9  
2135 7.9 73101.0 -1306.4  
2136 9.5 73105.9 -1346.8  
2137 9.8 73109.0 -1359.9  
  
2138 9.4 73113.1 -1329.8  
2139 9.5 73117.9 -1324.2  
2140 9.8 73118.3 -1306.8  
2141 9.4 73120.0 -1324.9  
2142 9.8 73120.9 -1322.7  
2143 8.3 73134.1 -1331.6  
2144 9.4 73139.6 -1356.4  
2145 9.5 73140.5 -1309.2  
2146 8.2 73218.4 -1322.2  
2147 9.4 73219.4 -1323.8  
  
2148 10. 73221.0 -1304.8  
2149 9.5 73226.0 -1348.8  
2150 9.8 73228.7 -1324.6  
2151 9.3 73232.9 -1343.8  
2152 9.1 73237.0 -1307.0  
2153 10. 73245.3 -1320.8  
2154 9.5 73249.9 -1302.9  
2155 9.1 73252.5 -1349.6  
2156 9.5 73253.1 -1341.4  
2157 8.5 73253.4 -1337.4  
  
2158 9.3 73300.7 -1355.8  
2159 9.8 73300.7 -1349.4  
2160 8.9 73309.5 -1353.9  
2161 9.9 73311.3 -1321.0  
2162 9.5 73356.4 -1348.8  
2163 9.4 73401.5 -1354.3  
2164 9.2 73413.9 -1321.3  
2165 9.4 73424.7 -1304.3  
2166 9.5 73440.5 -1309.8  
2167 9.7 73444.7 -1339.8

2168 10. 73450.5 -1319.8  
2169 9.0 73457.9 -1327.8  
2170 9.0 73502.6 -1303.2  
2171 10. 73505.5 -1332.0  
2172 9.5 73508.2 -1316.7  
2173 8.9 73508.5 -1324.7  
2174 9.5 73514.3 -1344.9  
2175 9.8 73514.7 -1302.8  
2176 9.1 73521.7 -1300.2  
2177 9.0 73532.9 -1348.2  
  
2178 10. 73538.7 -1314.4  
2179 9.1 73543.9 -1336.2  
2180 8.0 73544.0 -1330.1  
2181 9.6 73546.0 -1329.7  
2182 8.8 73555.7 -1357.4  
2183 9.0 73611.5 -1356.8  
2184 9.3 73617.9 -1359.0  
2185 9.1 73618.8 -1345.3  
2186 9.4 73619.2 -1307.5  
2187 9.3 73628.7 -1349.3  
  
2188 9.3 73629.8 -1345.0  
2189 8.9 73632.6 -1339.2  
2190 9.3 73642.3 -1342.4  
2191 9.5 73644.7 -1342.3  
2192 9.6 73649.1 -1344.5  
2193 9.2 73656.2 -1339.9  
2194 9.0 73703.4 -1351.3  
2195 9.2 73716.5 -1332.0  
2196 9.5 73718.0 -1314.6  
2197 8.4 73736.6 -1318.1  
  
2198 10. 73744.0 -1338.3  
2199 9.5 73749.5 -1317.7  
2200 10. 73754.3 -1304.6  
2201 10. 73755.9 -1316.4  
2202 9.0 73801.8 -1377.0  
2203 9.8 73808.6 -1345.8  
2204 8.1 73812.2 -1320.9  
2205 9.8 73823.7 -1334.2  
2206 10. 73833.6 -1311.5  
2207 8.8 73840.4 -1357.6  
  
2208 10. 73849.6 -1311.7  
2209 9.4 73853.0 -1325.0  
2210 10. 73853.5 -1305.7  
2211 9.6 73902.6 -1314.8  
2212 9.0 73906.9 -1311.0  
2213 9.8 73910.1 -1338.5  
2214 10. 73910.8 -1335.6  
2215 9.5 73914.5 -1354.8  
2216 9.5 73916.2 -1304.6  
2217 9.0 73932.4 -1305.5  
  
2218 10. 73941.9 -1348.1  
2219 9.5 73945.4 -1324.4  
2220 10. 73946.5 -1308.3  
2221 9.4 73954.9 -1348.2  
2222 9.5 74000.7 -1340.5  
2223 9.3 74005.8 -1342.7  
2224 9.3 74013.7 -1341.6  
2225 9.8 74017.4 -1349.2  
2226 10. 74022.9 -1358.3  
2227 10. 74025.5 -1332.4  
  
2228 9.5 74027.9 -1351.0  
2229 9.4 74038.8 -1329.5  
2230 10. 74041.0 -1308.9  
2231 9.7 74056.5 -1321.1  
2232 9.3 74104.0 -1316.8  
2233 9.3 74110.4 -1330.7  
2234 9.4 74118.2 -1345.2  
2235 10. 74129.9 -1306.7  
2236 8.0 74132.7 -1344.2  
2237 9.8 74139.6 -1338.2  
  
2238 9.0 74140.0 -1308.5  
2239 9.5 74145.8 -1301.8  
2240 10. 74202.4 -1308.3  
2241 10. 74209.7 -1355.0  
2242 9.1 74225.9 -1322.5  
2243 9.4 74234.8 -1310.1  
2244 9.1 74241.8 -1326.7  
2245 9.3 74243.0 -1316.1  
2246 9.5 74249.2 -1322.5  
2247 7.2 74257.9 -1343.2  
  
2248 9.4 74258.6 -1315.6  
2249 8.8 74305.9 -1331.5  
2250 8.8 74308.4 -1323.8  
2251 9.0 74317.1 -1310.3  
2252 9.5 74318.6 -1338.6  
2253 10. 74327.0 -1311.8  
2254 9.0 74338.3 -1313.8  
2255 9.0 74354.5 -1324.0  
2256 10. 74355.3 -1359.4  
2257 10. 74358.8 -1300.2

2258 9.1 74413.8 -1348.2  
2259 10. 74422.3 -1306.4  
2260 9.5 74425.2 -1300.2  
2261 10. 74438.4 -1306.5  
2262 9.6 74440.7 -1314.1  
2263 9.8 74451.9 -1329.2  
2264 9.5 74454.4 -1351.5  
2265 9.3 74456.8 -1303.7  
2266 9.3 74500.2 -1342.3  
2267 5.7 74503.4 -1330.9  
  
2268 10. 74521.9 -1331.7  
2269 10. 74532.9 -1353.2  
2270 7.2 74542.9 -1329.4  
2271 9.8 74553.4 -1352.7  
2272 10. 74554.3 -1315.7  
2273 10. 74603.1 -1315.2  
2274 8.5 74605.9 -1331.1  
2275 9.3 74607.4 -1318.2  
2276 9.8 74612.4 -1332.4  
2277 8.2 74616.7 -1340.9  
  
2278 9.4 74632.8 -1351.0  
2279 10. 74635.9 -1307.5  
2280 10. 74642.8 -1303.0  
2281 9.4 74657.7 -1326.0  
2282 9.2 74658.5 -1326.4  
2283 9.4 74659.0 -1322.6  
2284 8.3 74700.1 -1314.0  
2285 9.0 74702.2 -1301.6  
2286 9.3 74707.2 -1343.8  
2287 10. 74716.1 -1307.2  
  
2288 10. 74717.9 -1311.0  
2289 9.8 74722.0 -1323.6  
2290 9.7 74737.3 -1359.0  
2291 9.8 74738.7 -1357.9  
2292 9.9 74743.9 -1359.6  
2293 9.5 74745.8 -1307.4  
2294 9.0 74751.7 -1303.3  
2295 9.5 74754.1 -1352.3  
2296 9.0 74755.3 -1322.0  
2297 10. 74801.9 -1344.9  
  
2298 9.5 74803.1 -1354.8  
2299 9.8 74804.2 -1311.1  
2300 10. 74815.7 -1322.8  
2301 9.1 74817.2 -1346.0  
2302 9.3 74832.6 -1320.5  
2303 9.2 74843.5 -1311.7  
2304 7.8 74857.1 -1351.2  
2305 8.6 74906.9 -1316.9  
2306 9.8 74907.8 -1341.8  
2307 9.5 74909.0 -1324.9  
  
2308 9.8 74921.7 -1331.7  
2309 9.4 74921.8 -1328.0  
2310 9.4 74951.2 -1344.3  
2311 9.8 74958.9 -1359.3  
2312 10. 74959.8 -1322.6  
2313 9.6 75006.9 -1311.4  
2314 9.8 75015.3 -1350.9  
2315 8.4 75023.4 -1300.6  
2316 9.2 75024.4 -1355.2  
2317 9.4 75025.2 -1300.8  
  
2318 10. 75038.1 -1300.5  
2319 8.8 75056.3 -1355.9  
2320 9.1 75112.7 -1368.8  
2321 9.3 75113.5 -1339.0  
2322 9.4 75119.7 -1358.7  
2323 9.7 75129.0 -1319.7  
2324 9.7 75129.8 -1205.3  
2325 9.8 75129.3 -1305.6  
2326 9.8 75155.3 -1302.0  
2327 9.8 75209.7 -1301.9  
  
2328 8.0 75219.3 -1330.0  
2329 9.1 75221.4 -1310.5  
2330 9.9 75223.5 -1334.6  
2331 8.1 75226.6 -1342.0  
2332 9.2 75227.9 -1335.4  
2333 9.1 75238.9 -1345.2  
2334 9.8 75240.3 -1353.2  
2335 10. 75245.8 -1327.4  
2336 9.4 75303.5 -1336.8  
2337 8.5 75304.0 -1317.4  
  
2338 8.9 75313.3 -1326.8  
2339 8.9 75322.5 -1308.2  
2340 10. 75344.7 -1324.5  
2341 9.0 75345.8 -1330.7  
2342 9.0 75411.8 -1309.9  
2343 8.7 75412.1 -1322.6  
2344 9.0 75417.8 -1356.6  
2345 7.5 75418.4 -1244.4  
2346 9.0 75424.1 -1343.5  
2347 9.3 75446.1 -1322.8

2348 9.8 75459.6 -1347.4  
2349 9.3 75504.5 -1318.2  
2350 9.5 75517.6 -1319.3  
2351 9.5 75526.7 -1314.4  
2352 9.5 75527.5 -1344.2  
2353 10. 75539.7 -1315.0  
2354 9.0 75544.1 -1311.2  
2355 9.8 75544.3 -1334.9  
2356 10. 75559.1 -1346.6  
2357 9.8 75603.5 -1353.8  
  
2358 9.8 75611.3 -1320.8  
2359 9.7 75624.2 -1313.3  
2360 8.8 75626.1 -1314.5  
2361 9.7 75629.1 -1312.0  
2362 9.7 75639.4 -1318.5  
2363 9.4 75644.3 -1311.3  
2364 10. 75647.9 -1336.6  
2365 9.7 75649.7 -1319.9  
2366 9.8 75701.2 -1359.0  
2367 9.4 75734.1 -1332.0  
  
2368 9.5 75737.6 -1306.2  
2369 9.3 75740.1 -1359.7  
2370 9.5 75749.5 -1342.7  
2371 10. 75750.6 -1340.7  
2372 10. 75755.6 -1338.3  
2373 9.7 75756.1 -1357.9  
2374 9.5 75806.0 -1352.5  
2375 8.0 75807.7 -1331.8  
2376 9.3 75808.0 -1305.0  
2377 9.7 75808.8 -1337.4  
  
2378 9.3 75816.2 -1353.0  
2379 9.4 75817.1 -1306.5  
2380 8.5 75839.7 -1352.4  
2381 7.5 75846.3 -1310.0  
2382 8.5 75904.8 -1342.3  
2383 9.8 75911.6 -1349.2  
2384 8.7 75912.8 -1233.0  
2385 9.0 75941.4 -1312.5  
2386 9.8 75945.6 -1340.0  
2387 9.0 75949.4 -1315.1  
  
2388 10. 80001.5 -1343.2  
2389 9.5 80007.2 -1308.1  
2390 9.1 80007.7 -1317.2  
2391 8.5 80012.2 -1353.1  
2392 7.5 80020.3 -1354.6  
2393 10. 80025.9 -1350.8  
2394 10. 80025.1 -1350.6  
2395 5.5 80036.4 -1326.7  
2396 9.4 80040.1 -1356.1  
2397 10. 80041.3 -1314.9  
  
2398 9.1 80043.5 -1319.8  
2399 9.4 80056.2 -1328.4  
2400 9.5 80113.8 -1319.0  
2401 7.5 80118.6 -1305.3  
2402 9.5 80118.6 -1358.9  
2403 10. 80119.4 -1359.4  
2404 9.1 80124.7 -1338.6  
2405 9.7 80126.0 -1316.4  
2406 9.4 80134.3 -1317.1  
2407 10. 80157.6 -1348.9  
  
2408 9.3 80207.8 -1354.9  
2409 9.1 80225.8 -1324.1  
2410 9.0 80232.8 -1337.1  
2411 9.4 80235.1 -1330.0  
2412 9.4 80237.8 -1330.2  
2413 9.0 80301.5 -1319.7  
2414 9.8 80303.1 -1339.7  
2415 9.8 80305.6 -1358.9  
2416 9.7 80325.9 -1357.2  
2417 9.5 80336.4 -1300.3  
  
2418 9.7 80344.0 -1304.3  
2419 9.8 80351.3 -1340.8  
2420 6.2 80356.0 -1322.2  
2421 8.9 80418.9 -1355.0  
2422 9.5 80423.0 -1313.5  
2423 9.6 80423.8 -1306.1  
2424 9.8 80427.4 -1322.3  
2425 9.2 80427.7 -1356.3  
2426 8.0 80436.7 -1356.3  
2427 10. 80502.9 -1360.6  
  
2428 9.4 80507.3 -1313.7  
2429 8.4 80515.1 -1344.5  
2430 9.3 80518.9 -1335.8  
2431 9.8 80537.9 -1357.8  
2432 9.6 80550.6 -1347.9  
2433 8.0 80556.0 -1302.3  
2434 9.5 80558.2 -1350.4  
2435 9.5 80605.9 -1324.9  
2436 9.4 80607.5 -1310.6  
2437 8.0 80611.4 -1325.3

-13 2437 8h06m



-13 2438 8h06m

|      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|-----|---------|---------|
| 2438 | 8.2 | 80612.9 | -1304.1 | 2528 | 9.2 | 81843.8 | -1305.0 |
| 2439 | 9.1 | 80624.6 | -1328.3 | 2529 | 9.4 | 81845.2 | -1347.3 |
| 2440 | 9.8 | 80658.4 | -1343.6 | 2530 | 10. | 81853.9 | -1354.0 |
| 2441 | 9.5 | 80715.1 | -1323.6 | 2531 | 9.5 | 81855.8 | -1305.2 |
| 2442 | 9.4 | 80735.4 | -1345.7 | 2532 | 9.5 | 81909.1 | -1345.0 |
| 2443 | 8.5 | 80737.5 | -1300.9 | 2533 | 8.6 | 81912.4 | -1312.4 |
| 2444 | 9.8 | 80759.8 | -1359.4 | 2534 | 10. | 81917.3 | -1304.1 |
| 2445 | 9.8 | 80800.1 | -1351.4 | 2535 | 9.5 | 81926.6 | -1358.0 |
| 2446 | 9.0 | 80802.4 | -1335.3 | 2536 | 10. | 81933.5 | -1315.2 |
| 2447 | 9.0 | 80815.5 | -1347.5 | 2537 | 9.4 | 81935.0 | -1331.3 |
| 2448 | 9.8 | 80815.7 | -1300.4 | 2538 | 9.5 | 81935.7 | -1340.9 |
| 2449 | 9.5 | 80817.9 | -1318.8 | 2539 | 9.4 | 81937.4 | -1347.8 |
| 2450 | 9.0 | 80827.8 | -1348.7 | 2540 | 9.2 | 81949.9 | -1338.3 |
| 2451 | 9.9 | 80839.0 | -1321.8 | 2541 | 9.2 | 81953.3 | -1325.1 |
| 2452 | 7.0 | 80846.9 | -1311.0 | 2542 | 8.9 | 81959.8 | -1335.4 |
| 2453 | 9.6 | 80859.7 | -1358.6 | 2543 | 9.8 | 82011.4 | -1314.8 |
| 2454 | 9.8 | 80903.4 | -1313.1 | 2544 | 9.5 | 82025.5 | -1330.7 |
| 2455 | 9.8 | 80914.2 | -1316.9 | 2545 | 9.1 | 82026.2 | -1333.8 |
| 2456 | 9.4 | 80915.6 | -1342.4 | 2546 | 10. | 82029.4 | -1328.5 |
| 2457 | 9.0 | 80928.1 | -1322.6 | 2547 | 9.1 | 82044.7 | -1317.1 |
| 2458 | 10. | 80942.3 | -1300.9 | 2548 | 9.0 | 82046.8 | -1321.8 |
| 2459 | 9.5 | 80943.0 | -1309.1 | 2549 | 7.7 | 82059.8 | -1306.7 |
| 2460 | 9.3 | 80943.5 | -1325.3 | 2550 | 9.7 | 82101.0 | -1344.6 |
| 2461 | 10. | 80952.9 | -1309.4 | 2551 | 9.4 | 82101.7 | -1320.0 |
| 2462 | 9.4 | 80956.2 | -1337.8 | 2552 | 8.0 | 82136.0 | -1304.7 |
| 2463 | 9.5 | 80957.8 | -1354.3 | 2553 | 9.7 | 82143.5 | -1344.1 |
| 2464 | 10. | 81001.3 | -1311.5 | 2554 | 9.8 | 82146.3 | -1307.7 |
| 2465 | 9.2 | 81006.4 | -1319.3 | 2555 | 9.5 | 82149.4 | -1333.9 |
| 2466 | 9.1 | 81019.6 | -1357.8 | 2556 | 9.7 | 82155.3 | -1305.4 |
| 2467 | 9.5 | 81025.8 | -1326.5 | 2557 | 9.1 | 82201.2 | -1354.1 |
| 2468 | 9.4 | 81026.8 | -1333.7 | 2558 | 9.3 | 82204.1 | -1343.0 |
| 2469 | 9.5 | 81039.4 | -1303.2 | 2559 | 9.8 | 82235.3 | -1306.7 |
| 2470 | 9.5 | 81107.2 | -1349.6 | 2560 | 9.8 | 82246.3 | -1329.3 |
| 2471 | 8.8 | 81126.7 | -1347.0 | 2561 | 9.4 | 82253.9 | -1333.5 |
| 2472 | 9.3 | 81158.5 | -1325.8 | 2562 | 9.3 | 82313.9 | -1340.0 |
| 2473 | 9.4 | 81200.6 | -1357.4 | 2563 | 9.5 | 82314.6 | -1312.7 |
| 2474 | 9.4 | 81222.3 | -1340.1 | 2564 | 9.8 | 82334.4 | -1359.0 |
| 2475 | 8.6 | 81225.6 | -1309.8 | 2565 | 9.8 | 82353.7 | -1329.9 |
| 2476 | 9.2 | 81225.8 | -1313.8 | 2566 | 7.8 | 82416.4 | -1331.5 |
| 2477 | 9.1 | 81229.1 | -1330.8 | 2567 | 9.4 | 82422.4 | -1359.3 |
| 2478 | 10. | 81238.4 | -1309.0 | 2568 | 9.8 | 82435.7 | -1310.1 |
| 2479 | 9.5 | 81239.9 | -1321.6 | 2569 | 9.4 | 82441.2 | -1307.6 |
| 2480 | 9.5 | 81255.0 | -1305.4 | 2570 | 10. | 82445.1 | -1349.3 |
| 2481 | 9.5 | 81259.1 | -1358.6 | 2571 | 10. | 82446.3 | -1335.0 |
| 2482 | 9.5 | 81259.8 | -1313.3 | 2572 | 9.0 | 82450.0 | -1351.4 |
| 2483 | 9.5 | 81324.3 | -1348.5 | 2573 | 9.5 | 82459.8 | -1306.2 |
| 2484 | 9.1 | 81334.0 | -1328.7 | 2574 | 9.5 | 82514.2 | -1303.3 |
| 2485 | 9.1 | 81335.5 | -1353.1 | 2575 | 9.3 | 82522.4 | -1327.1 |
| 2486 | 9.1 | 81343.5 | -1321.7 | 2576 | 9.6 | 82524.3 | -1335.0 |
| 2487 | 10. | 81343.9 | -1354.2 | 2577 | 9.2 | 82529.0 | -1315.0 |
| 2488 | 8.2 | 81347.7 | -1310.8 | 2578 | 9.4 | 82533.8 | -1309.6 |
| 2489 | 10. | 81355.1 | -1354.4 | 2579 | 9.8 | 82534.0 | -1321.6 |
| 2490 | 10. | 81400.0 | -1321.2 | 2580 | 9.7 | 82536.5 | -1312.6 |
| 2491 | 7.5 | 81401.5 | -1354.6 | 2581 | 9.4 | 82540.2 | -1305.0 |
| 2492 | 9.0 | 81405.1 | -1333.6 | 2582 | 8.8 | 82544.2 | -1327.4 |
| 2493 | 9.8 | 81408.4 | -1314.5 | 2583 | 7.0 | 82551.3 | -1355.8 |
| 2494 | 9.3 | 81414.6 | -1314.4 | 2584 | 10. | 82555.1 | -1314.5 |
| 2495 | 9.1 | 81425.5 | -1306.5 | 2585 | 8.6 | 82604.7 | -1312.9 |
| 2496 | 9.5 | 81426.2 | -1307.7 | 2586 | 9.3 | 82609.4 | -1343.2 |
| 2497 | 9.3 | 81429.1 | -1307.5 | 2587 | 9.9 | 82619.7 | -1315.6 |
| 2498 | 8.8 | 81430.5 | -1343.3 | 2588 | 9.9 | 82622.4 | -1316.7 |
| 2499 | 9.3 | 81436.0 | -1356.0 | 2589 | 8.5 | 82626.2 | -1307.9 |
| 2500 | 9.0 | 81459.6 | -1358.7 | 2590 | 9.4 | 82626.9 | -1336.4 |
| 2501 | 8.3 | 81502.9 | -1358.7 | 2591 | 9.5 | 82635.6 | -1303.5 |
| 2502 | 8.0 | 81113.9 | -1318.6 | 2592 | 9.1 | 82640.2 | -1328.0 |
| 2503 | 9.4 | 81518.1 | -1328.8 | 2593 | 8.8 | 82700.6 | -1354.3 |
| 2504 | 9.2 | 81525.6 | -1329.5 | 2594 | 9.4 | 82704.9 | -1355.3 |
| 2505 | 7.1 | 81525.7 | -1305.8 | 2595 | 9.0 | 82705.0 | -1333.4 |
| 2506 | 8.9 | 81527.1 | -1309.8 | 2596 | 8.7 | 82712.3 | -1312.5 |
| 2507 | 8.8 | 81534.5 | -1326.6 | 2597 | 9.5 | 82723.3 | -1315.4 |
| 2508 | 9.4 | 81534.9 | -1307.8 | 2598 | 8.9 | 82726.8 | -1311.3 |
| 2509 | 10. | 81557.7 | -1345.1 | 2599 | 9.6 | 82738.4 | -1322.7 |
| 2510 | 9.7 | 81557.7 | -1308.5 | 2600 | 8.8 | 82805.3 | -1357.3 |
| 2511 | 9.3 | 81600.0 | -1350.2 | 2601 | 9.4 | 82807.2 | -1309.0 |
| 2512 | 9.5 | 81621.9 | -1348.0 | 2602 | 9.8 | 82812.8 | -1335.6 |
| 2513 | 8.5 | 81640.4 | -1307.0 | 2603 | 9.7 | 82819.4 | -1315.8 |
| 2514 | 9.0 | 81653.5 | -1359.1 | 2604 | 9.1 | 82821.7 | -1309.9 |
| 2515 | 9.4 | 81705.2 | -1310.2 | 2605 | 9.5 | 82844.5 | -1317.5 |
| 2516 | 8.1 | 81706.3 | -1309.9 | 2606 | 9.2 | 82914.3 | -1353.0 |
| 2517 | 9.1 | 81722.5 | -1334.6 | 2607 | 9.6 | 82927.1 | -1326.0 |
| 2518 | 9.4 | 81727.0 | -1335.2 | 2608 | 9.2 | 82936.2 | -1315.5 |
| 2519 | 9.6 | 81731.0 | -1335.6 | 2609 | 9.0 | 82938.9 | -1319.5 |
| 2520 | 9.4 | 81732.8 | -1313.0 | 2610 | 9.6 | 82944.5 | -1347.2 |
| 2521 | 10. | 81743.1 | -1314.6 | 2611 | 9.3 | 82953.0 | -1307.6 |
| 2522 | 9.8 | 81745.6 | -1348.2 | 2612 | 9.7 | 83002.1 | -1319.7 |
| 2523 | 9.4 | 81746.4 | -1328.3 | 2613 | 8.2 | 83009.6 | -1330.1 |
| 2524 | 9.1 | 81747.0 | -1322.5 | 2614 | 9.0 | 83009.7 | -1309.2 |
| 2525 | 9.0 | 81759.6 | -1336.5 | 2615 | 9.0 | 83014.2 | -1333.1 |
| 2526 | 9.3 | 81834.4 | -1310.4 | 2616 | 9.5 | 83033.6 | -1355.0 |
| 2527 | 9.3 | 81836.5 | -1303.0 | 2617 | 9.0 | 83046.3 | -1320.4 |

-13 2797 9h09m

|      |     |         |         |      |     |           |         |
|------|-----|---------|---------|------|-----|-----------|---------|
| 2618 | 9.8 | 83047.3 | -1345.3 | 2708 | 9.2 | 84806.6   | -1325.5 |
| 2619 | 9.0 | 83049.9 | -1303.1 | 2709 | 9.8 | 84809.8   | -1342.6 |
| 2620 | 9.1 | 83055.8 | -1317.2 | 2710 | 9.4 | 84816.3   | -1330.5 |
| 2621 | 9.7 | 83057.6 | -1303.4 | 2711 | 9.2 | 84830.4   | -1353.7 |
| 2622 | 9.5 | 83120.0 | -1354.5 | 2712 | 9.5 | 84837.7   | -1336.1 |
| 2623 | 8.8 | 83120.1 | -1325.5 | 2713 | 8.0 | 84838.6   | -1351.1 |
| 2624 | 9.7 | 83129.2 | -1356.0 | 2714 | 8.3 | 84853.0   | -1329.4 |
| 2625 | 9.5 | 83151.9 | -1314.7 | 2715 | 9.0 | 84903.1   | -1305.2 |
| 2626 | 9.8 | 83206.2 | -1310.0 | 2716 | 9.5 | 84908.3   | -1347.9 |
| 2627 | 9.5 | 83207.7 | -1317.3 | 2717 | 8.9 | 84921.2   | -1355.6 |
| 2628 | 8.5 | 83219.6 | -1302.6 | 2718 | 8.2 | 84921.2   | -1321.1 |
| 2629 | 9.8 | 83224.1 | -1329.7 | 2719 | 9.1 | 84937.9   | -1322.9 |
| 2630 | 10. | 83230.7 | -1317.3 | 2720 | 9.0 | 84946.7   | -1310.1 |
| 2631 | 9.5 | 83240.7 | -1332.1 | 2721 | 9.0 | 85001.1   | -1308.3 |
| 2632 | 9.4 | 83246.1 | -1322.2 | 2722 | 9.5 | 85027.4   | -1253.0 |
| 2633 | 8.2 | 83249.1 | -1358.9 | 2723 | 9.7 | 85056.3   | -1354.6 |
| 2634 | 9.6 | 83255.8 | -1358.2 | 2724 | 9.3 | 85104.5   | -1302.0 |
| 2635 | 9.4 | 83309.7 | -1300.1 | 2725 | 10. | 85119.9   | -1323.4 |
| 2636 | 9.1 | 83313.3 | -1354.7 | 2726 | 9.8 | 85125.2   | -1301.1 |
| 2637 | 9.4 | 83319.4 | -1304.1 | 2727 | 9.8 | 85125.3   | -1305.6 |
| 2638 | 8.2 | 83321.5 | -1321.4 | 2728 | 9.0 | 85132.2   | -1348.4 |
| 2639 | 9.5 | 83323.3 | -1318.2 | 2729 | 10. | 85150.8   | -1319.1 |
| 2640 | 8.0 | 83325.0 | -1303.2 | 2730 | 9.1 | 85158.5   | -1333.7 |
| 2641 | 9.7 | 83336.1 | -1355.5 | 2731 | 9.3 | 85171.1   | -1337.4 |
| 2642 | 9.2 | 83345.0 | -1300.1 | 2732 | 9.9 | 85240.3   | -1321.6 |
| 2643 | 9.8 | 83407.5 | -1354.5 | 2733 | 8.9 | 85242.0   | -1314.2 |
| 2644 | 8.0 | 83414.4 | -1346.9 | 2734 | 9.5 | 85253.6   | -1336.3 |
| 2645 | 9.6 | 83415.0 | -1342.0 | 2735 | 8.5 | 85311.2   | -1358.0 |
| 2646 | 9.7 | 83441.4 | -1346.9 | 2736 | 9.3 | 85312.3   | -1350.3 |
| 2647 | 9.5 | 83442.6 | -1341.9 | 2737 | 8.7 | 85313.6   | -1344.4 |
| 2648 | 8.9 | 83445.2 | -1314.5 | 2738 | 9.8 | 85319.0   | -1329.7 |
| 2649 | 8.8 | 83500.4 | -1317.9 | 2739 | 10. | 85330.8   | -1358.4 |
| 2650 | 9.8 | 83500.7 | -1333.7 | 2740 | 9.3 | 85357.7   | -1316.4 |
| 2651 | 8.9 | 83507.0 | -1324.3 | 2741 | 9.8 | 85402.9   | -1311.5 |
| 2652 | 9.2 | 83515.9 | -1318.8 | 2742 | 10. | 85419.6   | -1343.8 |
| 2653 | 8.4 | 83521.5 | -1301.0 | 2743 | 8.2 | 85442.5   | -1355.6 |
| 2654 | 9.8 | 83535.1 | -1332.2 | 2744 | 9.1 | 85448.3   | -1351.5 |
| 2655 | 9.2 | 83535.3 | -1344.1 | 2745 | 9.4 | 85530.2   | -1319.9 |
| 2656 | 9.7 | 83544.6 | -1325.0 | 2746 | 7.7 | 85615.8   | -1326.0 |
| 2657 | 9.4 | 83617.0 | -1354.4 | 2747 | 9.8 | 85617.0   | -1310.1 |
| 2658 | 9.4 | 83618.9 | -1350.1 | 2748 | 9.3 | 85622.2   | -1348.7 |
| 2659 | 9.6 | 83640.0 | -1336.6 | 2749 | 9.8 | 85622.5   | -1310.7 |
| 2660 | 9.8 | 83643.7 | -1308.2 | 2750 | 9.4 | 85641.9   | -1355.7 |
| 2661 | 7.7 | 83644.1 | -1331.2 | 2751 | 7.9 | 85645.3   | -1351.8 |
| 2662 | 9.6 | 83648.1 | -1356.8 | 2752 | 9.8 | 85716.2   | -1321.9 |
| 2663 | 9.6 | 83707.3 | -1319.5 | 2753 | 8.7 | 85721.1   | -1342.8 |
| 2664 | 9.5 | 83727.7 | -1355.5 | 2754 | 9.8 | 85729.9   | -1300.8 |
| 2665 | 9.3 | 83752.2 | -1357.0 | 2755 | 9.9 | 85747.8   | -1325.0 |
| 2666 | 9.3 | 83801.0 | -1304.7 | 2756 | 9.8 | 85752.2   | -1306.6 |
| 2667 | 9.2 | 83834.4 | -1313.7 | 2757 | 9.0 | 85754.0   | -1308.4 |
| 2668 | 8.5 | 83834.6 | -1335.3 | 2758 | 10. | 85815.7   | -1336.0 |
| 2669 | 9.3 | 83911.2 | -1309.1 | 2759 | 9.0 | 85825.6   | -1344.8 |
| 2670 | 8.2 | 83919.8 | -1350.6 | 2760 | 9.4 | 85844.4   | -1306.4 |
| 2671 | 9.2 | 83927.3 | -1309.7 | 2761 | 9.7 | 85910.5   | -1311.3 |
| 2672 | 9.8 | 83921.6 | -1341.9 | 2762 | 10. | 85917.6   | -1346.5 |
| 2673 | 4.8 | 83932.2 | -1301.2 | 2763 | 9.1 | 85917.9</ |         |



2798 9.4 90902.1 -1347.4  
 2799 9.8 90902.6 -1328.0  
 2800 9.4 90903.2 -1301.2  
 2801 9.4 90909.0 -1325.8  
 2802 9.4 90915.9 -1348.5  
 2803 9.7 90932.6 -1332.8  
 2804 7.1 90933.6 -1314.1  
 2805 8.8 90952.1 -1315.5  
 2806 9.8 90953.7 -1331.3  
 2807 8.9 91005.4 -1350.2

2808 6.6 91014.5 -1358.3  
 2809 8.7 91040.0 -1350.0  
 2810 9.1 91047.3 -1309.1  
 2811 9.8 91056.2 -1300.8  
 2812 9.5 91120.5 -1349.7  
 2813 10. 91131.6 -1359.1  
 2814 10. 91145.4 -1328.7  
 2815 9.4 91215.8 -1315.1  
 2816 9.4 91225.9 -1302.7  
 2817 9.4 91227.1 -1325.6

2818 9.9 91239.2 -1337.9  
 2819 9.8 91248.1 -1328.0  
 2820 10. 91309.4 -1305.0  
 2821 10. 91315.0 -1310.0  
 2822 9.6 91322.6 -1357.4  
 2823 10. 91335.3 -1310.8  
 2824 10. 91337.8 -1339.6  
 2825 9.0 91349.8 -1307.2  
 2826 8.0 91351.9 -1312.2  
 2827 9.9 91414.3 -1307.3

2828 9.3 91416.2 -1308.2  
 2829 9.1 91427.5 -1314.9  
 2830 10. 91428.7 -1338.3  
 2831 10. 91503.4 -1351.7  
 2832 10. 91503.9 -1334.3  
 2833 9.5 91541.1 -1347.0  
 2834 9.2 91547.5 -1356.2  
 2835 8.3 91558.5 -1312.4  
 2836 10. 91608.6 -1338.5  
 2837 9.9 91617.2 -1344.3

2838 9.3 91659.9 -1312.8  
 2839 9.4 91711.5 -1322.4  
 2840 9.3 91739.2 -1316.5  
 2841 10. 91744.2 -1310.4  
 2842 9.8 91749.8 -1352.0  
 2843 9.8 91805.7 -1346.9  
 2844 9.1 91808.8 -1357.2  
 2845 9.3 91810.8 -1346.2  
 2846 9.2 91820.1 -1318.8  
 2847 8.9 91822.9 -1325.4

2848 9.2 91823.0 -1326.4  
 2849 10. 91834.2 -1306.1  
 2850 10. 91837.3 -1352.4  
 2851 8.5 91853.4 -1354.7  
 2852 8.8 91943.8 -1338.7  
 2853 9.5 91944.2 -1343.1  
 2854 9.7 91945.1 -1307.6  
 2855 7.8 91947.8 -1351.5  
 2856 10. 92000.7 -1317.8  
 2857 9.0 92013.7 -1342.7

2858 7.8 92015.7 -1316.6  
 2859 9.4 92024.4 -1321.9  
 2860 10. 92042.1 -1303.0  
 2861 10. 92059.3 -1349.5  
 2862 9.5 92108.8 -1351.4  
 2863 9.4 92149.0 -1355.1  
 2864 9.5 92159.6 -1305.2  
 2865 9.6 92209.9 -1304.3  
 2866 7.2 92220.1 -1306.5  
 2867 9.1 92245.4 -1357.3

2868 9.5 92251.3 -1324.1  
 2869 8.8 92313.9 -1348.1  
 2870 9.2 92346.3 -1313.0  
 2871 9.3 92450.2 -1354.6  
 2872 9.5 92453.0 -1335.0  
 2873 9.0 92454.6 -1305.8  
 2874 8.9 92535.0 -1314.7  
 2875 9.2 92547.3 -1321.7  
 2876 7.0 92558.3 -1322.0  
 2877 10. 92559.6 -1332.5

2878 9.0 92608.7 -1350.1  
 2879 9.5 92610.4 -1330.4  
 2880 9.8 92623.5 -1336.7  
 2881 9.8 92624.6 -1310.5  
 2882 9.2 92640.0 -1305.2  
 2883 10. 92641.5 -1303.9  
 2884 9.1 92647.1 -1344.5  
 2885 9.8 92658.7 -1359.6  
 2886 9.4 92709.2 -1314.5  
 2887 10. 92713.6 -1350.7

2888 8.5 92728.9 -1313.5  
 2889 9.4 92743.5 -1345.6  
 2890 10. 92751.8 -1341.6  
 2891 9.6 92842.9 -1304.8  
 2892 9.6 92857.2 -1339.0  
 2893 9.0 92917.3 -1550.4  
 2894 9.5 92924.6 -1354.5  
 2895 9.2 92934.5 -1347.1  
 2896 9.3 92955.3 -1350.4  
 2897 9.5 92952.6 -1353.1

2898 9.4 92955.1 -1354.7  
 2899 10. 92956.4 -1337.5  
 2900 9.9 93003.2 -1323.4  
 2901 9.1 93007.1 -1311.0  
 2902 9.0 93008.4 -1307.0  
 2903 8.5 93010.5 -1301.4  
 2904 10. 93021.8 -1317.0  
 2905 9.5 93032.8 -1315.7  
 2906 9.6 93047.8 -1315.1  
 2907 9.8 93131.0 -1359.0

2908 9.4 93131.7 -1337.8  
 2909 8.7 93132.1 -1305.6  
 2910 9.1 93134.1 -1307.5  
 2911 9.5 93209.0 -1354.1  
 2912 9.7 93228.1 -1311.4  
 2913 8.8 93238.0 -1344.3  
 2914 9.1 93254.3 -1302.0  
 2915 8.9 93316.6 -1325.5  
 2916 10. 93321.2 -1329.3  
 2917 5.8 93321.4 -1340.6

2918 9.3 93323.2 -1333.4  
 2919 9.4 93338.5 -1349.9  
 2920 9.3 93342.8 -1314.4  
 2921 9.5 93404.6 -1325.6  
 2922 9.9 93414.3 -1318.4  
 2923 9.1 93430.5 -1318.6  
 2924 9.0 93450.7 -1301.5  
 2925 10. 93457.9 -1312.8  
 2926 7.5 93535.4 -1319.3  
 2927 8.8 93544.6 -1328.5

2928 9.7 93548.4 -1312.0  
 2929 8.7 93606.3 -1314.5  
 2930 8.0 93631.0 -1301.8  
 2931 9.8 93640.0 -1332.0  
 2932 9.7 93643.3 -1314.0  
 2933 9.4 93653.0 -1331.9  
 2934 9.5 93655.9 -1325.5  
 2935 8.3 93708.7 -1303.5  
 2936 8.6 93709.8 -1322.1  
 2937 10. 93712.7 -1344.0

2938 9.6 93722.8 -1320.1  
 2939 8.8 93723.3 -1309.6  
 2940 9.1 93745.6 -1317.4  
 2941 10. 93757.6 -1211.8  
 2942 10. 93758.5 -1316.5  
 2943 9.8 93805.7 -1343.3  
 2944 9.4 93821.3 -1316.8  
 2945 9.6 93906.0 -1328.6  
 2946 8.0 93917.1 -1355.5  
 2947 9.3 93918.5 -1325.8

2948 9.2 93930.2 -1352.5  
 2949 8.7 94006.2 -1322.1  
 2950 9.4 94039.4 -1348.3  
 2951 10. 94049.5 -1322.3  
 2952 10. 94053.9 -1316.3  
 2953 9.0 94059.2 -1337.5  
 2954 9.7 94206.4 -1310.9  
 2955 9.1 94242.9 -1323.4  
 2956 9.5 94310.7 -1354.5  
 2957 9.4 94312.1 -1302.1

2958 9.5 94315.3 -1328.0  
 2959 9.4 94317.1 -1319.5  
 2960 9.7 94339.5 -1309.2  
 2961 9.2 94348.0 -1339.8  
 2962 9.5 94404.2 -1311.6  
 2963 7.5 94415.8 -1303.0  
 2964 9.4 94416.1 -1353.2  
 2965 8.9 94418.7 -1327.3  
 2966 8.8 94426.9 -1307.7  
 2967 7.8 94449.9 -1323.9

2968 8.8 94503.6 -1304.4  
 2969 9.0 94521.8 -1354.5  
 2970 9.5 94525.8 -1318.3  
 2971 8.7 94616.3 -1316.3  
 2972 9.4 94633.3 -1315.1  
 2973 9.5 94644.1 -1329.2  
 2974 9.5 94644.1 -1318.0  
 2975 9.7 94645.5 -1302.4  
 2976 9.0 94700.2 -1357.7  
 2977 9.0 94709.1 -1317.7

2978 9.4 94723.3 -1320.7  
 2979 9.8 94740.1 -1356.1  
 2980 8.9 94751.5 -1357.9  
 2981 10. 94807.1 -1334.2  
 2982 9.5 94811.9 -1347.1  
 2983 9.3 94831.0 -1302.2  
 2984 9.6 94911.8 -1343.4  
 2985 9.4 94921.5 -1300.3  
 2986 9.9 94936.9 -1347.7  
 2987 10. 94939.7 -1316.2

2988 8.3 94948.3 -1342.3  
 2989 9.1 95009.5 -1315.5  
 2990 9.5 95014.8 -1345.6  
 2991 9.4 95019.9 -1325.1  
 2992 9.0 95021.6 -1339.2  
 2993 9.6 95032.5 -1316.9  
 2994 9.6 95100.8 -1306.2  
 2995 9.9 95113.3 -1349.3  
 2996 7.4 95130.0 -1315.3  
 2997 9.4 95130.5 -1333.7

2998 9.5 95146.6 -1305.6  
 2999 7.8 95151.0 -1327.4  
 3000 9.1 95219.7 -1336.7  
 3001 8.0 95221.3 -1302.8  
 3002 9.8 95230.6 -1358.2  
 3003 9.0 95242.8 -1352.7  
 3004 9.3 95245.7 -1339.0  
 3005 9.8 95328.5 -1330.9  
 3006 9.4 95347.3 -1320.4  
 3007 9.3 95354.5 -1300.7

3008 8.5 95357.9 -1327.3  
 3009 8.8 95400.2 -1331.3  
 3010 8.8 95422.1 -1315.3  
 3011 9.8 95442.4 -1313.8  
 3012 9.8 95448.9 -1333.2  
 3013 7.5 95457.2 -1341.6  
 3014 10. 95511.8 -1355.1  
 3015 10. 95512.2 -1301.6  
 3016 9.7 95513.4 -1349.6  
 3017 9.7 95514.5 -1348.0

3018 9.4 95606.2 -1306.5  
 3019 9.8 95630.8 -1321.8  
 3020 10. 95643.2 -1305.8  
 3021 9.4 95658.4 -1317.5  
 3022 9.3 95711.7 -1318.4  
 3023 9.4 95723.0 -1340.1  
 3024 9.4 95734.5 -1319.7  
 3025 10. 95805.3 -1325.3  
 3026 10. 95821.9 -1334.1  
 3027 9.4 95850.5 -1337.6

3028 9.7 95939.0 -1318.1  
 3029 9.8 95955.4 -1329.9  
 3030 9.4 100001.2 -1322.1  
 3031 9.5 100012.4 -1336.4  
 3032 10. 100012.6 -1304.7  
 3033 9.3 100013.3 -1306.7  
 3034 9.0 100015.5 -1343.9  
 3035 10. 100019.9 -1359.9  
 3036 8.6 100039.0 -1327.0  
 3037 8.5 100055.5 -1307.8

3038 10. 100102.6 -1320.3  
 3039 9.0 100127.6 -1322.0  
 3040 10. 100127.8 -1357.7  
 3041 9.1 100204.1 -1300.4  
 3042 10. 100228.1 -1325.2  
 3043 10. 100244.0 -1318.3  
 3044 10. 100306.5 -1353.7  
 3045 9.3 100308.2 -1355.6  
 3046 9.4 100314.6 -1354.9  
 3047 9.9 100321.0 -1351.4

3048 9.3 100335.9 -1318.0  
 3049 8.9 100338.0 -1307.2  
 3050 9.2 100351.0 -1353.5  
 3051 8.8 100351.5 -1303.4  
 3052 9.4 100357.6 -1324.9  
 3053 9.0 100407.9 -1344.5  
 3054 9.9 100411.7 -1330.7  
 3055 8.0 100431.7 -1333.9  
 3056 9.9 100438.9 -1306.9  
 3057 9.8 100456.5 -1312.1

3058 9.6 100522.3 -1311.3  
 3059 9.0 100544.1 -1354.5  
 3060 9.5 100544.4 -1306.2  
 3061 10. 100634.5 -1330.6  
 3062 9.4 100654.7 -1359.9  
 3063 9.8 100659.8 -1314.7  
 3064 9.2 100724.0 -1334.9  
 3065 8.6 100738.6 -1333.5  
 3066 9.0 100744.1 -1314.4  
 3067 8.6 100756.4 -1305.0

3068 10. 100756.7 -1352.5  
 3069 9.3 100830.2 -1358.7  
 3070 9.5 100843.4 -1304.1  
 3071 9.0 100848.6 -1333.8  
 3072 9.5 100920.0 -1344.9  
 3073 9.0 100931.7 -1340.4  
 3074 10. 100933.4 -1303.8  
 3075 9.8 100958.9 -1302.1  
 3076 8.9 101002.5 -1332.2  
 3077 9.6 101009.5 -1343.8

3078 9.6 101009.5 -1344.5  
 3079 10. 101020.4 -1359.2  
 3080 9.1 101021.0 -1341.0  
 3081 10. 101057.3 -1323.5  
 3082 9.5 101103.3 -1305.0  
 3083 9.8 101130.4 -1337.5  
 3084 9.4 101138.3 -1334.6  
 3085 9.3 101211.3 -1322.2  
 3086 9.6 101227.9 -1344.9  
 3087 10. 101230.4 -1355.9

3088 9.8 101237.6 -1311.6  
 3089 10. 101259.0 -1331.3  
 3090 8.9 101201.4 -1311.9  
 3091 9.2 101308.7 -1308.3  
 3092 8.7 101316.8 -1303.6  
 3093 9.8 101325.5 -1335.5  
 3094 8.9 101326.7 -1345.3  
 3095 8.8 101341.7 -1352.3  
 3096 9.1 101344.3 -1300.0  
 3097 6.5 101409.4 -1303.4

3098 9.2 101428.0 -1333.1  
 3099 9.8 101435.5 -1356.1  
 3100 9.5 101447.9 -1335.2  
 3101 9.6 101455.1 -1344.4  
 3102 9.8 101523.9 -1332.0  
 3103 9.5 101558.4 -1337.5  
 3104 9.1 101624.4 -1357.8  
 3105 9.1 101643.2 -1318.9  
 3106 9.5 101700.7 -1322.1  
 3107 10. 101711.4 -1338.6

3108 8.9 101713.6 -1353.4  
 3109 9.5 101726.9 -1312.9  
 3110 9.5 101731.2 -1324.5  
 3111 9.4 101757.8 -1302.1  
 3112 10. 101823.5 -1321.7  
 3113 10. 101834.1 -1339.2  
 3114 9.9 101847.6 -1306.9  
 3115 9.6 101901.5 -1310.5  
 3116 9.5 101908.8 -1251.1  
 3117 10. 101918.0 -1307.0

3118 9.5 101946.0 -1308.7  
 3119 9.0 101947.2 -1323.8  
 3120 9.5 101959.5 -1329.6  
 3121 9.5 102006.1 -1317.7  
 3122 9.5 102012.8 -1340.7  
 3123 9.7 102023.5 -1327.3  
 3124 10. 102044.9 -1344.1  
 3125 10. 102103.3 -1338.0  
 3126 9.6 102123.6 -1340.0  
 3127 9.6 102132.7 -1314.0

3128 9.8 102140.4 -1300.3  
 3129 8.0 102141.1 -1342.4  
 3130 9.6 102157.0 -1303.4  
 3131 8.8 102219.2 -1331.6  
 3132 9.6 102231.3 -1309.4  
 3133 9.1 102258.8 -1339.0  
 3134 9.1 102301.7 -1327.4  
 3135 8.7 102304.0 -1352.3  
 3136 10. 102357.8 -1344.2  
 3137 9.5 102417.9 -1348.9

3138 9.0 102420.1 -1350.0  
 3139 9.8 102500.2 -1323.4  
 3140 9.8 102500.8 -1359.5  
 3141 9.7 102507.9 -1346.1  
 3142 9.7 102518.3 -1312.9  
 3143 8.4 102520.0 -1338.4  
 3144 9.0 102535.8 -1345.8  
 3145 8.8 102555.2 -1316.2  
 3146 10. 102601.7 -1353.9  
 3147 9.8 102602.6 -1357.4

3148 10. 102603.1 -1348.1  
 3149 9.2 102617.0 -1327.5  
 3150 10. 102623.4 -1306.3  
 3151 9.5 102643.5 -1326.6  
 3152 9.7 102652.9 -1359.5  
 3153 9.4 102653.2 -1309.8  
 3154 10. 102704.6 -1321.5  
 3155 9.5 102704.7 -1324.8  
 3156 8.8 102709.6 -1321.8  
 3157 9.1 102713.3 -1306.7



3158 9.0 102732.8 -1350.4  
 3159 8.8 102738.7 -1357.4  
 3160 9.0 102744.5 -1332.8  
 3161 9.1 102745.4 -1302.0  
 3162 9.2 102753.6 -1354.6  
 3163 9.5 102825.3 -1308.0  
 3164 9.3 102832.9 -1315.1  
 3165 7.7 102836.2 -1312.1  
 3166 9.5 102845.3 -1345.6  
 3167 9.8 102848.3 -1308.6

3168 9.4 102920.9 -1311.8  
 3169 9.8 102921.2 -1328.2  
 3170 8.6 102923.8 -1305.5  
 3171 9.2 102930.9 -1323.6  
 3172 8.5 102936.9 -1319.1  
 3173 10. 103007.0 -1311.0  
 3174 9.9 103013.4 -1355.1  
 3175 10. 103033.6 -1347.9  
 3176 9.1 103050.2 -1355.7  
 3177 9.5 103108.3 -1349.9

3178 9.5 103110.7 -1346.8  
 3179 9.8 103114.3 -1348.4  
 3180 8.7 103118.8 -1321.3  
 3181 9.8 103158.5 -1320.4  
 3182 9.0 103208.6 -1345.2  
 3183 8.8 103223.2 -1322.7  
 3184 10. 103239.2 -1359.3  
 3185 9.0 103312.9 -1329.0  
 3186 9.5 103313.6 -1355.6  
 3187 8.8 103336.7 -1326.6

3188 7.8 103357.0 -1376.2  
 3189 10. 103407.6 -1348.7  
 3190 9.2 103429.5 -1351.2  
 3191 9.1 103438.5 -1358.8  
 3192 9.8 103438.8 -1333.3  
 3193 9.1 103439.1 -1357.5  
 3194 9.8 103449.0 -1350.0  
 3195 9.7 103451.7 -1355.7  
 3196 7.0 103501.8 -1301.6  
 3197 6.2 103522.5 -1313.1

3198 9.2 103532.6 -1352.8  
 3199 9.8 103532.2 -1343.8  
 3200 8.3 103547.7 -1322.8  
 3201 8.5 103555.5 -1359.1  
 3202 9.3 103622.8 -1315.8  
 3203 10. 103639.9 -1315.0  
 3204 9.1 103642.5 -1306.6  
 3205 9.1 103648.0 -1346.1  
 3206 9.8 103700.9 -1333.7  
 3207 9.8 103701.9 -1333.5

3208 9.5 103807.2 -1305.7  
 3209 9.8 103854.6 -1300.4  
 3210 10. 103902.2 -1302.0  
 3211 9.1 103911.0 -1316.6  
 3212 9.4 103917.4 -1328.8  
 3213 8.6 103935.0 -1319.0  
 3214 8.1 104018.0 -1312.9  
 3215 9.7 104051.8 -1340.8  
 3216 10. 104100.1 -1310.8  
 3217 9.4 104103.3 -1322.4

3218 9.1 104103.4 -1351.5  
 3219 9.1 104103.6 -1353.2  
 3220 9.7 104135.7 -1300.5  
 3221 9.5 104144.5 -1308.0  
 3222 9.1 104235.9 -1326.1  
 3223 8.7 104245.3 -1315.4  
 3224 10. 104210.6 -1309.9  
 3225 10. 104229.5 -1307.4  
 3226 9.7 104325.0 -1318.2  
 3227 9.8 104340.5 -1341.5

3228 9.5 104358.9 -1333.9  
 3229 9.5 104404.9 -1306.5  
 3230 8.5 104404.5 -1301.9  
 3231 9.7 104419.9 -1314.4  
 3232 9.0 104427.0 -1304.5  
 3233 9.8 104428.6 -1318.6  
 3234 9.8 104433.6 -1311.4  
 3235 9.9 104446.1 -1313.6  
 3236 9.0 104521.4 -1302.4  
 3237 9.8 104539.6 -1321.8

3238 9.1 104547.9 -1306.9  
 3239 9.1 104558.7 -1323.1  
 3240 9.5 104602.5 -1324.0  
 3241 9.7 104610.0 -1339.5  
 3242 9.3 104615.4 -1335.7  
 3243 9.8 104632.9 -1340.7  
 3244 9.5 104658.8 -1324.8  
 3245 9.7 104708.4 -1339.9  
 3246 9.7 104710.4 -1308.7  
 3247 8.6 104718.3 -1214.0

3248 9.6 104718.4 -1302.0  
 3249 10. 104744.1 -1332.2  
 3250 9.0 104744.3 -1328.1  
 3251 9.2 104748.5 -1200.1  
 3252 10. 104843.3 -1358.0  
 3253 9.8 104848.4 -1335.9  
 3254 9.3 104932.2 -1327.0  
 3255 9.1 105037.8 -1353.3  
 3256 9.7 105012.7 -1357.8  
 3257 10. 105025.9 -1208.2

3258 9.8 105038.4 -1346.4  
 3259 9.7 105048.3 -1333.4  
 3260 9.6 105053.8 -1341.0  
 3261 10. 105104.4 -1300.0  
 3262 10. 105118.7 -1325.8  
 3263 9.9 105139.0 -1301.2  
 3264 10. 105204.7 -1314.1  
 3265 8.4 105214.6 -1323.8  
 3266 9.0 105217.7 -1343.7  
 3267 9.8 105224.3 -1301.8

3268 9.7 105232.7 -1337.4  
 3269 9.1 105235.0 -1313.9  
 3270 9.8 105250.1 -1330.0  
 3271 6.5 105259.0 -1318.3  
 3272 10. 105239.1 -1319.1  
 3273 9.7 105245.5 -1331.6  
 3274 9.1 105247.5 -1340.8  
 3275 9.3 105247.8 -1312.5  
 3276 9.4 105257.2 -1347.5  
 3277 9.9 105359.7 -1345.3

3278 9.4 105420.2 -1334.4  
 3279 9.2 105420.6 -1325.6  
 3280 10. 105422.2 -1335.9  
 3281 9.8 105427.0 -1318.7  
 3282 9.3 105440.8 -1343.6  
 3283 9.0 105445.6 -1342.5  
 3284 9.4 105517.6 -1352.8  
 3285 9.5 105601.5 -1330.3  
 3286 9.8 105622.5 -1315.7  
 3287 10. 105655.1 -1310.5

3288 9.1 105703.3 -1323.7  
 3289 10. 105723.6 -1202.7  
 3290 10. 105736.7 -1310.2  
 3291 9.0 105754.5 -1326.4  
 3292 10. 105759.2 -1359.0  
 3293 9.8 105814.1 -1305.9  
 3294 10. 105829.0 -1318.8  
 3295 10. 105829.1 -1349.4  
 3296 9.8 105839.4 -1328.1  
 3297 9.3 105856.5 -1174.8

3298 8.7 105858.9 -1321.4  
 3299 9.7 105919.4 -1319.6  
 3300 8.5 105922.4 -1357.5  
 3301 9.5 105923.4 -1311.3  
 3302 9.5 105924.5 -1346.5  
 3303 9.4 105924.5 -1335.3  
 3304 8.8 105933.3 -1310.0  
 3305 10. 105946.7 -1323.5  
 3306 9.9 105946.7 -1324.5  
 3307 10. 110020.0 -1323.0

3308 9.0 110037.1 -1351.0  
 3309 9.7 110039.0 -1333.3  
 3310 9.6 110123.9 -1335.7  
 3311 9.8 110136.8 -1356.8  
 3312 10. 110210.0 -1300.4  
 3313 10. 110219.1 -1309.1  
 3314 9.2 110230.0 -1349.4  
 3315 9.8 110253.3 -1317.4  
 3316 9.8 110300.5 -1344.5  
 3317 8.6 110301.1 -1331.0

3318 9.6 110328.2 -1337.7  
 3319 9.8 110337.5 -1349.1  
 3320 8.2 110450.3 -1320.1  
 3321 7.2 110534.7 -1308.3  
 3322 9.8 110537.6 -1316.7  
 3323 9.3 110544.4 -1203.3  
 3324 8.7 110602.2 -1300.7  
 3325 9.8 110627.9 -1358.8  
 3326 9.5 110639.9 -1301.9  
 3327 9.3 110646.7 -1328.8

3328 9.9 110824.7 -1357.5  
 3329 9.7 110827.8 -1343.2  
 3330 9.2 110829.8 -1304.9  
 3331 9.8 110839.3 -1300.5  
 3332 9.4 110847.7 -1342.7  
 3333 9.3 110909.8 -1354.0  
 3334 7.8 110933.2 -1243.1  
 3335 9.2 110939.7 -1356.4  
 3336 9.7 110945.2 -1315.0  
 3337 9.6 110947.5 -1318.3

3338 9.8 111019.1 -1324.5  
 3339 10. 111030.2 -1342.6  
 3340 9.8 111088.3 -1308.0  
 3341 9.3 111099.0 -1352.0  
 3342 8.8 111125.1 -1311.0  
 3343 9.8 111125.7 -1342.3  
 3344 9.8 111155.0 -1327.1  
 3345 3.8 111205.0 -1359.9  
 3346 9.4 111218.0 -1326.0  
 3347 8.7 111254.5 -1358.5

3348 9.7 111255.1 -1320.8  
 3349 9.4 111256.6 -1348.4  
 3350 7.8 111256.9 -1305.5  
 3351 9.8 111342.4 -1311.7  
 3352 9.5 111344.1 -1341.3  
 3353 8.0 111351.7 -1317.1  
 3354 9.1 111411.1 -1354.4  
 3355 10. 111416.1 -1346.6  
 3356 9.4 111502.0 -1342.3  
 3357 9.0 111540.7 -1355.1

3358 9.4 111542.2 -1356.5  
 3359 8.2 111551.0 -1354.0  
 3360 10. 111615.1 -1305.6  
 3361 10. 111621.6 -1304.4  
 3362 10. 111715.4 -1325.2  
 3363 9.8 111737.9 -1323.8  
 3364 9.0 111874.7 -1314.5  
 3365 7.2 111825.4 -1344.4  
 3366 9.8 111830.8 -1314.7  
 3367 9.4 111908.8 -1327.7

3368 9.7 111937.0 -1307.1  
 3369 9.5 111956.2 -1320.4  
 3370 9.8 111959.4 -1345.7  
 3371 9.3 112018.8 -1324.0  
 3372 9.8 112028.7 -1329.2  
 3373 9.1 112044.1 -1354.7  
 3374 9.5 112130.8 -1349.9  
 3375 9.8 112134.5 -1354.6  
 3376 9.8 112159.8 -1318.7  
 3377 8.8 112201.9 -1300.4

3378 9.4 112254.7 -1352.4  
 3379 8.7 112303.3 -1339.4  
 3380 9.1 112309.7 -1336.8  
 3381 9.4 112315.7 -1352.9  
 3382 10. 112342.8 -1307.7  
 3383 9.1 112345.7 -1342.3  
 3384 10. 112346.6 -1302.0  
 3385 9.4 112409.6 -1320.9  
 3386 9.9 112409.6 -1301.1  
 3387 9.6 112417.8 -1307.3

3388 9.5 112442.7 -1351.4  
 3389 9.6 112450.7 -1342.3  
 3390 9.5 112457.1 -1329.3  
 3391 10. 112512.3 -1355.4  
 3392 9.0 112514.6 -1323.4  
 3393 9.8 112558.2 -1350.1  
 3394 9.8 112603.1 -1317.3  
 3395 9.4 112604.2 -1340.0  
 3396 9.4 112624.8 -1354.3  
 3397 8.5 112643.7 -1351.2

3398 9.8 112653.2 -1310.3  
 3399 9.0 112656.3 -1313.4  
 3400 8.2 112708.2 -1309.6  
 3401 10. 112728.1 -1357.1  
 3402 9.5 112752.4 -1315.2  
 3403 9.1 112758.0 -1300.8  
 3404 9.7 112802.2 -1352.9  
 3405 9.1 112811.6 -1352.9  
 3406 8.6 112818.8 -1339.5  
 3407 8.5 112823.1 -1347.2

3408 9.8 112838.0 -1330.2  
 3409 9.0 112908.7 -1306.2  
 3410 9.7 112919.5 -1311.2  
 3411 9.1 113022.5 -1321.2  
 3412 8.5 113023.3 -1352.0  
 3413 9.6 113057.5 -1340.9  
 3414 9.8 113109.2 -1301.8  
 3415 9.5 113119.0 -1351.5  
 3416 9.7 113152.1 -1315.3  
 3417 8.9 113204.0 -1347.9

3418 9.6 113208.8 -1325.9  
 3419 9.5 113214.7 -1316.4  
 3420 6.5 113230.4 -1340.1  
 3421 10. 113312.6 -1307.8  
 3422 9.6 113330.1 -1310.4  
 3423 10. 113335.6 -1358.2  
 3424 9.1 113425.7 -1359.6  
 3425 9.4 113426.6 -1341.0  
 3426 9.5 113428.9 -1350.7  
 3427 9.4 113514.4 -1347.8

3428 9.5 113546.2 -1330.1  
 3429 9.4 113557.0 -1305.7  
 3430 8.0 113613.0 -1313.0  
 3431 10. 113617.1 -1300.4  
 3432 9.8 113624.1 -1305.1  
 3433 8.9 113706.1 -1318.6  
 3434 9.5 113707.5 -1305.4  
 3435 9.1 113803.9 -1304.8  
 3436 9.7 113809.4 -1303.2  
 3437 9.8 113815.8 -1359.6

3438 8.8 113816.9 -1341.0  
 3439 9.3 113826.7 -1309.6  
 3440 9.4 113831.9 -1303.9  
 3441 9.3 113839.1 -1359.0  
 3442 9.3 113928.4 -1318.0  
 3443 9.7 113933.1 -1311.7  
 3444 10. 113939.5 -1311.0  
 3445 9.8 114015.0 -1302.0  
 3446 9.3 114040.6 -1317.4  
 3447 9.3 114059.8 -1309.1

3448 7.0 114119.2 -1332.0  
 3449 9.7 114121.2 -1315.0  
 3450 8.9 114121.8 -1301.2  
 3451 9.8 114135.9 -1317.1  
 3452 10. 114220.4 -1309.5  
 3453 9.1 114255.1 -1333.7  
 3454 9.8 114301.7 -1356.0  
 3455 8.2 114338.7 -1356.1  
 3456 10. 114418.4 -1302.8  
 3457 9.8 114424.7 -1312.2

3458 7.7 114505.3 -1319.5  
 3459 9.3 114506.2 -1357.2  
 3460 9.4 114510.4 -1355.3  
 3461 9.9 114521.7 -1327.9  
 3462 9.1 114535.6 -1353.8  
 3463 8.6 114556.5 -1347.3  
 3464 10. 114606.4 -1326.9  
 3465 9.0 114618.8 -1302.2  
 3466 9.1 114631.9 -1334.4  
 3467 9.8 114652.2 -1313.8

3468 9.3 114708.4 -1325.8  
 3469 8.8 114713.8 -1312.5  
 3470 9.6 114721.7 -1313.2  
 3471 9.0 114813.0 -1331.5  
 3472 9.0 114815.6 -1304.4  
 3473 8.6 114817.4 -1346.1  
 3474 9.3 114843.5 -1352.0  
 3475 8.9 114859.6 -1316.2  
 3476 9.1 114901.0 -1353.4  
 3477 9.0 114906.5 -1353.5

3478 9.5 115012.9 -1346.1  
 3479 8.5 115035.3 -1318.3  
 3480 9.3 115136.3 -1349.6  
 3481 9.7 115166.5 -1312.1  
 3482 9.5 115235.4 -1327.1  
 3483 9.6 115243.9 -1308.0  
 3484 9.1 115420.8 -1340.2  
 3485 8.5 115622.9 -1305.5  
 3486 8.0 115736.3 -1342.1  
 3487 9.0 115824.7 -1351.0

3488 9.4 115849.7 -1345.4  
 3489 9.4 115925.8 -1304.9  
 3490 9.6 120103.9 -1317.9  
 3491 8.0 120149.0 -1303.3  
 3492 9.5 120137.1 -1258.4  
 3493 9.5 120239.0 -1326.5  
 3494 9.5 120246.0 -1326.6  
 3495 8.2 120258.6 -1322.0  
 3496 9.6 120300.5 -1343.8  
 3497 9.1 120306.0 -1333.3

3498 9.8 120357.4 -1314.3  
 3499 9.3 120401.2 -1309.4  
 3500 9.2 120438.9 -1307.8  
 3501 9.8 120513.8 -1307.9  
 3502 9.1 120529.6 -1326.3  
 3503 9.8 120539.3 -1328.3  
 3504 9.8 120622.2 -1325.4  
 3505 10. 120625.5 -1326.4  
 3506 9.2 120724.1 -1317.4  
 3507 9.4 120725.6 -1329.9

3508 7.0 120802.5 -1315.9  
 3509 7.2 120822.1 -1300.8  
 3510 9.4 120840.0 -1342.5  
 3511 9.5 120801.5 -1344.8  
 3512 8.6 120908.6 -1340.7  
 3513 9.3 121043.0 -1301.6  
 3514 7.6 121107.5 -1336.0  
 3515 9.2 121108.9 -1359.4  
 3516 9.4 121114.4 -1336.0  
 3517 9.4 121227.5 -1303.6



-13 3518 12h12m

3518 9.4 121235.9 -1307.8  
3519 9.3 121240.6 -1332.7  
3520 8.2 121241.1 -1318.8  
3521 9.8 121323.3 -1324.1  
3522 9.7 121343.3 -1312.1  
3523 9.9 121347.0 -1305.9  
3524 9.8 121350.7 -1311.4  
3525 9.5 121351.5 -1315.4  
3526 9.2 121446.9 -1315.3  
3527 9.3 121517.8 -1347.7

3528 7.5 121527.0 -1351.5  
3529 9.2 121540.5 -1359.3  
3530 9.2 121622.8 -1310.3  
3531 9.1 121652.7 -1338.5  
3532 9.8 121737.8 -1347.5  
3533 8.9 121759.4 -1359.5  
3534 9.7 121902.2 -1336.5  
3535 9.6 121904.1 -1333.9  
3536 9.5 121911.8 -1329.5  
3537 9.3 121939.8 -1357.5

3538 9.5 122002.9 -1332.7  
3539 9.9 122022.2 -1339.7  
3540 7.0 122031.3 -1338.8  
3541 9.2 122038.0 -1314.6  
3542 9.3 122047.7 -1300.1  
3543 10.1 122113.1 -1329.8  
3544 9.5 122210.5 -1324.8  
3545 9.4 122302.6 -1352.7  
3546 9.2 122416.8 -1355.8  
3547 8.6 122421.2 -1355.2

3548 9.4 122446.1 -1334.7  
3549 9.3 122446.8 -1300.6  
3550 9.6 122448.8 -1328.4  
3551 9.8 122449.9 -1359.2  
3552 6.3 122506.5 -1303.4  
3553 9.6 122526.6 -1327.2  
3554 9.4 122527.9 -1353.0  
3555 9.5 122528.9 -1331.8  
3556 9.7 122557.1 -1352.3  
3557 9.1 122632.4 -1350.2

3558 9.5 122643.1 -1306.3  
3559 9.3 122652.3 -1307.5  
3560 9.1 122712.1 -1326.0  
3561 9.2 122742.9 -1351.0  
3562 9.8 122802.8 -1346.0  
3563 9.5 122834.0 -1305.5  
3564 9.8 122837.9 -1320.0  
3565 9.9 122837.9 -1314.6  
3566 9.4 123002.2 -1359.0  
3567 9.7 123010.7 -1357.4

3568 0.1 123036.7 -1301.3  
3569 8.2 123045.4 -1315.5  
3570 0.1 123100.8 -1351.5  
3571 9.2 123106.6 -1325.6  
3572 9.5 123138.7 -1328.3  
3573 9.8 123142.4 -1318.1  
3574 9.3 123152.7 -1359.8  
3575 9.3 123248.0 -1313.8  
3576 9.9 123257.2 -1324.7  
3577 6.9 123302.8 -1318.0

3578 9.6 123327.6 -1358.6  
3579 9.4 123408.0 -1317.2  
3580 9.6 123427.9 -1344.3  
3581 10.1 123454.3 -1314.0  
3582 9.4 123519.0 -1342.0  
3583 9.4 123534.5 -1319.2  
3584 9.2 123541.3 -1327.5  
3585 9.8 123558.6 -1358.0  
3586 7.0 123600.5 -1303.6  
3587 9.8 123600.7 -1307.8

3588 10.1 123619.2 -1346.6  
3589 9.8 123617.5 -1317.0  
3590 9.1 123645.8 -1307.4  
3591 9.4 123649.4 -1330.8  
3592 8.3 123643.4 -1323.1  
3593 9.5 123608.6 -1309.5  
3594 9.5 123929.2 -1305.2  
3595 9.4 123939.7 -1358.1  
3596 9.1 123957.0 -1357.1  
3597 9.5 124014.3 -1315.1

3598 8.8 124102.4 -1337.2  
3599 9.5 124204.9 -1355.4  
3600 9.5 124218.6 -1302.9  
3601 10.1 124223.7 -1314.8  
3602 9.4 124244.5 -1358.8  
3603 9.6 124249.2 -1352.8  
3604 9.2 124304.3 -1352.8  
3605 9.6 124315.9 -1357.0  
3606 9.2 124325.1 -1307.1  
3607 9.1 124337.8 -1352.4

3608 9.5 124415.8 -1341.9  
3609 8.8 124417.7 -1316.1  
3610 8.7 124434.3 -1314.7  
3611 9.0 124507.5 -1354.3  
3612 7.8 124522.8 -1349.5  
3613 9.4 124602.3 -1340.8  
3614 9.5 124615.6 -1304.0  
3615 9.7 124629.4 -1359.1  
3616 9.3 124638.7 -1340.5  
3617 8.5 124639.0 -1312.0

3618 9.7 124656.2 -1359.3  
3619 9.7 124716.2 -1319.3  
3620 9.6 124742.0 -1312.5  
3621 8.8 124752.2 -1318.9  
3622 9.4 124857.6 -1343.1  
3623 9.8 124906.5 -1312.5  
3624 9.5 124924.9 -1359.9  
3625 9.8 124953.5 -1315.3  
3626 10.1 124957.7 -1345.0  
3627 8.7 125010.3 -1340.7

3628 8.2 125020.2 -1333.4  
3629 9.5 125046.4 -1318.5  
3630 9.6 125113.8 -1358.5  
3631 9.1 125135.5 -1320.9  
3632 9.4 125140.4 -1332.0  
3633 8.0 125219.4 -1324.5  
3634 9.4 125240.7 -1327.6  
3635 7.3 125248.1 -1306.8  
3636 9.4 125314.4 -1345.2  
3637 9.5 125317.9 -1342.5

3638 10.1 125319.6 -1337.1  
3639 9.6 125343.3 -1331.1  
3640 9.4 125346.4 -1302.1  
3641 8.5 125419.7 -1302.7  
3642 9.4 125435.0 -1319.8  
3643 9.6 125511.5 -1304.2  
3644 8.5 125516.8 -1348.2  
3645 9.2 125520.2 -1349.3  
3646 9.4 125530.9 -1325.6  
3647 9.7 125551.3 -1341.4

3648 9.2 125632.7 -1302.9  
3649 9.2 125702.3 -1332.7  
3650 9.6 125750.8 -1311.5  
3651 6.8 125813.9 -1320.2  
3652 9.3 125851.4 -1359.9  
3653 9.9 125901.2 -1355.7  
3654 9.1 125906.7 -1313.0  
3655 9.4 125958.8 -1328.0  
3656 7.8 130001.7 -1324.9  
3657 8.5 130024.0 -1330.9

3658 9.5 130032.7 -1340.3  
3659 9.3 130042.3 -1303.6  
3660 10.1 130114.7 -1322.3  
3661 8.8 130142.1 -1335.8  
3662 9.4 130254.9 -1320.4  
3663 7.5 130335.6 -1328.2  
3664 9.5 130336.2 -1304.5  
3665 7.0 130343.3 -1311.3  
3666 9.3 130359.1 -1348.1  
3667 9.5 130503.0 -1330.8

3668 9.5 130518.8 -1321.3  
3669 9.5 130559.2 -1300.7  
3670 9.4 130614.5 -1341.9  
3671 7.5 130631.0 -1330.7  
3672 10.1 130654.3 -1359.9  
3673 9.5 130714.5 -1341.4  
3674 9.5 130737.0 -1331.4  
3675 9.4 130814.3 -1345.4  
3676 9.7 130821.9 -1317.4  
3677 9.5 130823.0 -1346.5

3678 9.7 130825.5 -1349.6  
3679 9.9 130828.8 -1358.2  
3680 9.5 130829.4 -1353.9  
3681 9.4 130902.1 -1302.4  
3682 8.8 131016.0 -1318.5  
3683 9.1 131028.0 -1300.8  
3684 9.0 131029.5 -1312.6  
3685 9.2 131034.9 -1348.2  
3686 9.2 131101.2 -1311.4  
3687 9.3 131124.7 -1351.8

3688 8.8 131132.4 -1358.8  
3689 9.0 131344.8 -1343.3  
3690 9.2 131359.2 -1312.6  
3691 9.2 131421.4 -1306.5  
3692 6.5 131424.7 -1339.5  
3693 9.5 131426.2 -1336.2  
3694 9.4 131445.7 -1340.7  
3695 9.9 131503.9 -1310.0  
3696 9.2 131612.2 -1346.5  
3697 8.9 131624.3 -1307.6

3698 9.2 131630.1 -1345.2  
3699 8.7 131639.9 -1320.7  
3700 9.1 131640.4 -1349.5  
3701 9.5 131651.0 -1311.9  
3702 9.5 131652.6 -1301.8  
3703 9.7 131726.1 -1316.7  
3704 9.5 131742.4 -1340.2  
3705 9.2 131803.7 -1319.6  
3706 9.5 131827.6 -1357.8  
3707 9.3 131917.5 -1325.8

3708 9.8 131930.0 -1338.3  
3709 9.4 131945.2 -1307.2  
3710 9.3 132001.4 -1343.2  
3711 9.5 132045.1 -1353.7  
3712 9.6 132101.3 -1349.5  
3713 9.8 132101.6 -1324.2  
3714 9.5 132105.5 -1332.2  
3715 9.3 132153.7 -1310.8  
3716 8.7 132216.0 -1315.3  
3717 8.9 132243.0 -1348.8

3718 9.8 132309.2 -1341.1  
3719 9.8 132312.9 -1318.9  
3720 9.0 132332.0 -1329.6  
3721 9.2 132336.0 -1309.8  
3722 9.3 132500.3 -1304.1  
3723 9.7 132500.3 -1302.1  
3724 9.0 132506.6 -1303.0  
3725 9.5 132522.8 -1336.5  
3726 8.9 132540.9 -1330.1  
3727 10.1 132610.9 -1316.5

3728 10.1 132636.0 -1313.9  
3729 9.3 132735.1 -1359.7  
3730 10.1 132810.8 -1305.6  
3731 9.2 132828.2 -1352.7  
3732 9.5 132829.7 -1346.0  
3733 9.5 132943.8 -1341.1  
3734 8.8 132956.4 -1359.3  
3735 9.4 132956.8 -1336.0  
3736 8.8 133016.3 -1329.4  
3737 7.8 133017.0 -1351.2

3738 9.1 133052.4 -1301.7  
3739 8.6 133107.6 -1350.6  
3740 9.5 133108.9 -1357.7  
3741 9.1 133111.4 -1304.0  
3742 9.1 133111.9 -1333.5  
3743 9.5 133157.7 -1348.5  
3744 9.8 133239.6 -1346.5  
3745 9.5 133254.3 -1314.1  
3746 9.7 133312.6 -1347.8  
3747 9.8 133324.7 -1302.2

3748 9.4 133357.7 -1309.6  
3749 10.1 133406.4 -1333.8  
3750 9.0 133406.6 -1341.1  
3751 10.1 133423.6 -1352.1  
3752 9.6 133427.3 -1355.9  
3753 9.5 133428.4 -1333.8  
3754 9.5 133429.3 -1341.1  
3755 8.8 133431.1 -1324.8  
3756 8.8 133539.6 -1329.9  
3757 9.2 133550.6 -1330.3

3758 9.5 133609.0 -1336.8  
3759 9.5 133639.1 -1337.4  
3760 9.2 133653.5 -1344.9  
3761 6.8 133659.1 -1329.2  
3762 9.5 133711.4 -1352.3  
3763 8.9 133719.2 -1307.8  
3764 9.1 133720.3 -1322.5  
3765 8.2 133828.1 -1318.1  
3766 9.1 133831.5 -1341.7  
3767 10.1 133841.6 -1303.9

3768 9.8 133843.4 -1316.7  
3769 8.5 133942.3 -1355.8  
3770 8.9 134004.9 -1324.2  
3771 10.1 134028.0 -1303.9  
3772 9.3 134111.0 -1349.9  
3773 10.1 134119.5 -1345.1  
3774 9.0 134132.0 -1318.7  
3775 9.3 134146.8 -1337.9  
3776 10.1 134221.5 -1346.4  
3777 10.1 134226.9 -1303.4

3778 10.1 134304.6 -1337.0  
3779 9.5 134316.8 -1321.6  
3780 9.5 134323.7 -1324.6  
3781 9.0 134343.0 -1331.3  
3782 7.2 134427.5 -1357.3  
3783 9.0 134442.9 -1333.1  
3784 10.1 134506.4 -1350.1  
3785 10.1 134535.6 -1310.5  
3786 7.2 134603.1 -1356.6  
3787 9.7 134615.7 -1314.1

3788 9.4 134626.5 -1323.9  
3789 9.1 134719.2 -1330.1  
3790 9.3 134719.4 -1336.6  
3791 9.2 134723.3 -1314.9  
3792 9.3 134724.4 -1338.9  
3793 8.3 134754.6 -1301.8  
3794 9.2 134840.0 -1311.1  
3795 8.5 134859.4 -1310.0  
3796 9.6 134906.5 -1355.7  
3797 10.1 134909.1 -1312.5

3798 10.1 135000.8 -1310.5  
3799 9.5 135017.6 -1322.4  
3800 9.3 135022.5 -1319.1  
3801 9.3 135036.7 -1324.0  
3802 6.3 135041.4 -1324.0  
3803 9.9 135057.4 -1341.1  
3804 9.1 135215.0 -1300.9  
3805 9.1 135235.5 -1331.5  
3806 9.4 135334.4 -1326.7  
3807 9.5 135346.9 -1336.2

3808 10.1 135347.6 -1324.7  
3809 9.8 135403.4 -1325.0  
3810 9.8 135433.3 -1359.6  
3811 8.7 135444.4 -1339.5  
3812 10.1 135453.4 -1345.4  
3813 9.4 135600.7 -1312.7  
3814 9.5 135606.9 -1305.3  
3815 9.8 135616.9 -1303.3  
3816 9.8 135639.8 -1342.0  
3817 10.1 135645.3 -1314.9

3818 8.4 135649.8 -1327.9  
3819 9.0 135653.3 -1326.8  
3820 10.1 135656.4 -1359.2  
3821 9.4 135706.2 -1354.3  
3822 9.1 135801.8 -1332.9  
3823 9.5 135842.1 -1353.0  
3824 7.0 135851.7 -1330.6  
3825 8.6 135855.8 -1324.0  
3826 9.8 135856.3 -1336.9  
3827 9.5 135926.5 -1301.1

3828 9.8 135955.8 -1326.0  
3829 8.8 140019.7 -1358.9  
3830 9.5 140042.2 -1345.9  
3831 10.1 140045.2 -1350.9  
3832 9.2 140104.5 -1318.3  
3833 8.0 140229.2 -1331.6  
3834 9.7 140239.4 -1314.3  
3835 9.5 140309.6 -1352.4  
3836 9.7 140317.8 -1355.5  
3837 9.6 140321.0 -1301.6

3838 10.1 140340.8 -1300.3  
3839 9.8 140341.6 -1344.8  
3840 10.1 140413.8 -1300.8  
3841 9.5 140424.7 -1324.9  
3842 9.6 140434.7 -1358.3  
3843 8.5 140504.1 -1329.4  
3844 8.6 140506.2 -1303.6  
3845 7.0 140519.3 -1310.4  
3846 8.5 140527.1 -1308.0  
3847 9.6 140622.5 -1349.8

3848 9.3 140636.0 -1358.1  
3849 9.6 140637.2 -1348.8  
3850 9.6 140654.1 -1305.2  
3851 10.1 140705.0 -1351.5  
3852 9.9 140710.5 -1320.3  
3853 9.7 140713.1 -1332.4  
3854 10.1 140745.6 -1324.7  
3855 9.6 140748.1 -1315.8  
3856 9.4 140757.2 -1322.2  
3857 9.7 140758.1 -1314.9

3858 9.4 140800.1 -1302.4  
3859 9.2 140804.3 -1355.4  
3860 9.9 140812.9 -1352.1  
3861 9.0 140823.1 -1336.2  
3862 9.2 140823.9 -1353.6  
3863 8.9 140853.7 -1304.0  
3864 8.8 140916.2 -1320.6  
3865 8.5 140934.7 -1317.9  
3866 9.5 141010.4 -1309.8  
3867 9.2 141102.1 -1320.7

3868 8.0 141112.3 -1351.3  
3869 8.0 141122.9 -1344.1  
3870 9.1 141133.5 -1300.5  
3871 9.5 141135.4 -1304.6  
3872 10.1 141140.8 -1350.4  
3873 8.0 141141.1 -1302.7  
3874 9.5 141149.5 -1307.2  
3875 10.1 141210.1 -1310.6  
3876 10.1 141217.1 -1336.0  
3877 9.9 141228.9 -1337.3

-13 3877 14h12m



|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 3878 9.8 141242.4 -1307.9 | 3968 9.6 143711.7 -1339.2 | 4058 9.1 145604.5 -1308.9 | 4148 7.5 151527.7 -1349.5 |
| 3879 9.9 141334.3 -1351.8 | 3969 9.6 143718.7 -1339.0 | 4059 9.9 145616.5 -1309.5 | 4149 10. 151536.2 -1347.1 |
| 3880 9.1 141339.9 -1336.4 | 3970 9.5 143724.3 -1307.6 | 4060 9.9 145640.1 -1319.0 | 4150 9.0 151540.1 -1303.8 |
| 3881 9.8 141343.9 -1349.8 | 3971 9.2 143725.1 -1300.3 | 4061 10. 145708.2 -1321.2 | 4151 8.4 151554.0 -1315.5 |
| 3882 9.0 141404.4 -1304.8 | 3972 9.0 143738.3 -1325.6 | 4062 9.3 145719.0 -1314.7 | 4152 7.7 151602.5 -1347.2 |
| 3883 9.5 141446.3 -1323.9 | 3973 9.0 143758.1 -1349.7 | 4063 9.5 145749.8 -1349.5 | 4153 10. 151605.8 -1316.3 |
| 3884 9.6 141524.4 -1322.7 | 3974 9.1 143810.4 -1308.9 | 4064 9.8 145749.8 -1323.0 | 4154 9.4 151608.0 -1304.8 |
| 3885 10. 141530.2 -1320.2 | 3975 9.4 143815.8 -1307.2 | 4065 8.7 145802.1 -1341.5 | 4155 9.5 151712.0 -1332.7 |
| 3886 8.7 141545.9 -1302.8 | 3976 9.4 143816.7 -1333.0 | 4066 9.6 145845.3 -1310.7 | 4156 9.8 151720.9 -1334.6 |
| 3887 8.9 141557.4 -1359.2 | 3977 9.9 143837.2 -1336.4 | 4067 9.5 145907.5 -1348.7 | 4157 8.8 151731.8 -1326.8 |
| 3888 9.9 141607.3 -1318.0 | 3978 9.4 143839.8 -1317.7 | 4068 9.3 145919.9 -1324.6 | 4158 8.9 151732.6 -1312.7 |
| 3889 9.8 141614.2 -1350.8 | 3979 10. 143844.1 -1354.5 | 4069 9.1 145924.4 -1300.6 | 4159 9.0 151736.5 -1334.4 |
| 3890 9.6 141629.0 -1351.0 | 3980 9.0 143915.5 -1312.7 | 4070 10. 145939.5 -1347.7 | 4160 9.8 151746.8 -1331.4 |
| 3891 7.7 141644.6 -1324.8 | 3981 9.8 143948.7 -1333.3 | 4071 9.5 145945.6 -1344.1 | 4161 9.4 151820.6 -1348.6 |
| 3892 9.5 141645.9 -1343.6 | 3982 9.4 144011.6 -1354.0 | 4072 9.4 150007.2 -1317.0 | 4162 9.0 151826.4 -1358.1 |
| 3893 9.3 141659.3 -1331.5 | 3983 9.5 144032.7 -1324.8 | 4073 9.7 150007.4 -1306.3 | 4163 8.6 151832.1 -1328.7 |
| 3894 8.6 141720.7 -1309.6 | 3984 9.8 144109.1 -1341.8 | 4074 10. 150009.5 -1303.8 | 4164 9.5 151834.1 -1332.0 |
| 3895 8.5 141732.6 -1325.5 | 3985 9.8 144119.6 -1344.7 | 4075 10. 150020.0 -1348.2 | 4165 9.3 151849.6 -1318.9 |
| 3896 9.8 141749.7 -1332.9 | 3986 6.0 144122.3 -1332.4 | 4076 9.8 150027.5 -1348.2 | 4166 10. 151907.7 -1359.2 |
| 3897 10. 141830.7 -1333.2 | 3987 9.8 144126.8 -1311.2 | 4077 10. 150029.7 -1339.1 | 4167 9.8 151915.6 -1317.1 |
| 3898 9.2 141926.9 -1319.8 | 3988 9.4 144130.2 -1302.8 | 4078 9.7 150041.4 -1316.2 | 4168 9.0 151928.0 -1306.9 |
| 3899 9.3 141944.3 -1359.6 | 3989 9.4 144136.6 -1354.5 | 4079 10. 150058.2 -1301.7 | 4169 9.5 151931.6 -1336.1 |
| 3900 9.8 141953.2 -1306.6 | 3990 9.8 144156.8 -1357.9 | 4080 10. 150058.3 -1307.8 | 4170 9.0 151935.5 -1300.7 |
| 3901 9.3 141956.6 -1345.6 | 3991 9.8 144230.0 -1318.0 | 4081 7.5 150103.2 -1326.2 | 4171 9.8 151921.0 -1306.1 |
| 3902 8.8 142005.2 -1343.8 | 3992 9.8 144302.6 -1337.4 | 4082 9.5 150103.5 -1347.8 | 4172 9.2 151926.5 -1322.9 |
| 3903 9.9 142010.3 -1333.5 | 3993 10. 144312.6 -1306.8 | 4083 9.7 150114.5 -1343.6 | 4173 10. 151939.0 -1309.4 |
| 3904 9.8 142026.2 -1343.8 | 3994 7.5 144318.7 -1300.1 | 4084 9.4 150131.2 -1345.9 | 4174 9.0 151931.5 -1355.9 |
| 3905 10. 142043.9 -1300.6 | 3995 10. 144330.5 -1307.2 | 4085 10. 150135.6 -1342.0 | 4175 9.2 151938.1 -1335.0 |
| 3906 9.1 142050.9 -1359.8 | 3996 9.3 144328.6 -1321.5 | 4086 8.9 150135.9 -1300.4 | 4176 9.7 151940.9 -1357.8 |
| 3907 9.0 142103.2 -1306.8 | 3997 10. 144359.0 -1346.0 | 4087 9.1 150136.3 -1335.1 | 4177 9.5 151950.5 -1336.8 |
| 3908 9.3 142128.6 -1339.6 | 3998 9.5 144404.7 -1309.3 | 4088 9.3 150150.5 -1349.3 | 4178 9.4 151969.5 -1317.2 |
| 3909 8.6 142142.3 -1310.8 | 3999 10. 144413.1 -1334.2 | 4089 9.1 150159.0 -1342.3 | 4179 9.0 151970.0 -1330.1 |
| 3910 10. 142145.8 -1327.0 | 4000 10. 144418.2 -1358.7 | 4090 9.5 150227.9 -1353.5 | 4180 9.0 151973.0 -1311.1 |
| 3911 9.0 142215.1 -1337.9 | 4001 9.5 144420.1 -1325.6 | 4091 10. 150231.3 -1307.8 | 4181 9.6 151954.1 -1356.7 |
| 3912 9.0 142231.9 -1357.7 | 4002 10. 144427.9 -1352.8 | 4092 10. 150251.3 -1352.8 | 4182 8.6 151931.6 -1341.5 |
| 3913 10. 142237.8 -1337.8 | 4003 9.0 144441.6 -1323.4 | 4093 10. 150312.8 -1326.0 | 4183 8.5 151932.9 -1349.2 |
| 3914 10. 142247.4 -1334.6 | 4004 9.5 144446.4 -1346.6 | 4094 9.4 150313.2 -1336.8 | 4184 9.3 151933.7 -1348.0 |
| 3915 10. 142313.3 -1353.7 | 4005 9.5 144522.4 -1359.6 | 4095 9.2 150319.0 -1240.4 | 4185 8.8 151936.1 -1342.9 |
| 3916 9.4 142313.6 -1336.9 | 4006 9.5 144538.9 -1349.4 | 4096 10. 150321.4 -1347.4 | 4186 9.6 151940.6 -1307.8 |
| 3917 9.8 142316.7 -1343.9 | 4007 9.8 144555.0 -1330.3 | 4097 9.4 150324.9 -1342.5 | 4187 9.6 151943.2 -1304.8 |
| 3918 9.1 142332.3 -1301.4 | 4008 9.2 144556.9 -1313.2 | 4098 9.2 150343.0 -1303.8 | 4188 9.2 151943.6 -1308.6 |
| 3919 9.7 142347.6 -1321.2 | 4009 9.6 144600.4 -1349.2 | 4099 10. 150345.7 -1301.6 | 4189 9.4 151943.7 -1353.2 |
| 3920 10. 142419.0 -1351.0 | 4010 9.4 144637.9 -1340.1 | 4100 9.2 150350.0 -1338.0 | 4190 9.4 151945.8 -1340.4 |
| 3921 9.2 142427.1 -1331.2 | 4011 9.3 144646.6 -1307.0 | 4101 9.8 150408.1 -1312.8 | 4191 9.6 151950.6 -1342.7 |
| 3922 10. 142448.0 -1327.0 | 4012 10. 144721.0 -1349.3 | 4102 8.2 150412.9 -1350.4 | 4192 9.0 151951.9 -1301.0 |
| 3923 8.7 142539.5 -1326.3 | 4013 9.9 144725.3 -1349.1 | 4103 9.2 150414.5 -1337.9 | 4193 7.3 151955.9 -1344.2 |
| 3924 8.7 142541.0 -1341.4 | 4014 9.8 144748.1 -1345.0 | 4104 10. 150450.8 -1300.2 | 4194 9.5 151960.7 -1356.1 |
| 3925 9.4 142543.8 -1315.7 | 4015 7.8 144757.0 -1318.5 | 4105 8.6 150452.5 -1310.4 | 4195 9.4 151960.9 -1315.1 |
| 3926 9.2 142705.7 -1312.3 | 4016 10. 144758.0 -1356.0 | 4106 9.6 150511.7 -1317.6 | 4196 9.4 151960.6 -1314.4 |
| 3927 9.0 142706.9 -1353.5 | 4017 9.5 144813.4 -1350.8 | 4107 7.5 150546.6 -1328.3 | 4197 9.4 151962.0 -1347.7 |
| 3928 10. 142740.1 -1308.9 | 4018 9.7 144825.7 -1356.6 | 4108 9.7 150549.0 -1331.2 | 4198 9.5 151963.7 -1338.3 |
| 3929 9.8 142750.0 -1337.5 | 4019 9.3 144829.6 -1331.1 | 4109 9.2 150603.7 -1308.7 | 4199 9.7 151965.8 -1338.9 |
| 3930 9.8 142755.0 -1344.0 | 4020 8.5 144840.3 -1330.7 | 4110 9.2 150603.9 -1340.1 | 4200 8.7 151970.4 -1311.1 |
| 3931 8.5 142824.5 -1323.3 | 4021 9.8 144842.9 -1324.2 | 4111 7.0 150618.1 -1339.6 | 4201 9.8 151970.5 -1348.8 |
| 3932 9.4 142847.0 -1326.4 | 4022 8.9 144843.4 -1333.0 | 4112 9.7 150621.3 -1346.2 | 4202 9.4 151972.0 -1325.3 |
| 3933 9.4 142859.8 -1350.5 | 4023 9.2 144851.8 -1354.1 | 4113 9.0 150640.6 -1220.1 | 4203 9.4 151973.4 -1358.3 |
| 3934 9.9 142927.0 -1307.9 | 4024 8.9 144855.9 -1339.4 | 4114 10. 150646.3 -1350.1 | 4204 9.7 151974.2 -1310.8 |
| 3935 10. 142950.2 -1300.2 | 4025 9.9 144926.8 -1348.0 | 4115 9.4 150657.2 -1304.3 | 4205 9.5 151974.9 -1308.9 |
| 3936 9.5 143028.9 -1333.1 | 4026 8.8 144936.5 -1307.0 | 4116 9.4 150735.8 -1335.2 | 4206 9.4 151983.7 -1318.6 |
| 3937 9.5 143122.6 -1303.5 | 4027 10. 145005.6 -1301.2 | 4117 9.0 150748.9 -1349.3 | 4207 9.9 151984.7 -1352.1 |
| 3938 8.5 143144.9 -1327.3 | 4028 8.8 145018.6 -1314.4 | 4118 9.6 150750.8 -1315.3 | 4208 8.4 151984.2 -1314.0 |
| 3939 8.3 143145.9 -1320.9 | 4029 10. 145019.1 -1301.5 | 4119 9.4 150818.5 -1316.5 | 4209 10. 151990.3 -1307.5 |
| 3940 9.4 143158.9 -1316.9 | 4030 9.8 145024.4 -1331.8 | 4120 9.9 150829.3 -1336.0 | 4210 8.5 151990.9 -1337.7 |
| 3941 9.5 143201.9 -1318.5 | 4031 9.5 145040.0 -1307.7 | 4121 9.6 150842.6 -1353.1 | 4211 8.4 151992.9 -1310.6 |
| 3942 9.1 143220.4 -1327.8 | 4032 10. 145054.4 -1301.1 | 4122 9.8 150853.7 -1359.5 | 4212 8.5 151993.4 -1337.7 |
| 3943 9.3 143225.1 -1346.1 | 4033 9.3 145134.9 -1338.0 | 4123 9.9 150908.5 -1333.1 | 4213 9.8 151993.4 -1326.6 |
| 3944 7.0 143235.9 -1325.1 | 4034 9.8 145139.5 -1302.3 | 4124 9.8 150927.3 -1316.8 | 4214 9.9 151994.1 -1328.6 |
| 3945 9.5 143309.4 -1306.9 | 4035 9.5 145144.9 -1311.4 | 4125 9.5 150928.8 -1319.8 | 4215 9.6 151999.9 -1342.7 |
| 3946 10. 143320.0 -1306.7 | 4036 9.5 145220.0 -1301.6 | 4126 9.5 150943.8 -1350.6 | 4216 8.2 151999.9 -1325.5 |
| 3947 8.2 143324.6 -1318.1 | 4037 9.3 145228.9 -1333.7 | 4127 9.2 150944.7 -1336.1 | 4217 9.0 151999.3 -1325.1 |
| 3948 9.5 143332.3 -1328.6 | 4038 10. 145240.2 -1351.4 | 4128 8.6 151103.2 -1347.7 | 4218 8.7 151999.9 -1334.9 |
| 3949 9.0 143333.0 -1350.3 | 4039 9.7 145247.6 -1311.0 | 4129 9.1 151154.8 -1352.1 | 4219 8.3 151999.9 -1307.5 |
| 3950 9.8 143338.9 -1311.1 | 4040 9.8 145308.9 -1307.7 | 4130 9.5 151155.7 -1330.4 | 4220 9.8 151999.9 -1344.8 |
| 3951 9.5 143339.5 -1338.7 | 4041 9.4 145317.0 -1316.8 | 4131 9.5 151209.8 -1343.7 | 4221 0. 151999.9 -1340.6  |
| 3952 9.4 143339.8 -1356.4 | 4042 10. 145340.9 -1306.4 | 4132 9.1 151220.2 -1326.8 | 4222 9.7 151999.9 -1305.5 |
| 3953 9.5 143348.7 -1359.7 | 4043 9.8 145342.2 -1355.2 | 4133 9.6 151244.2 -1338.0 | 4223 9.0 151999.9 -1322.9 |
| 3954 10. 143350.9 -1314.6 | 4044 9.6 145352.1 -1353.8 | 4134 9.0 151303.7 -1317.6 | 4224 9.3 151999.9 -1321.1 |
| 3955 9.9 143351.8 -1321.1 | 4045 9.6 145352.8 -1311.7 | 4135 10. 151330.3 -1341.8 | 4225 9.4 151999.9 -1311.2 |
| 3956 9.9 143358.0 -1302.0 | 4046 9.5 145359.4 -1309.7 | 4136 9.7 151343.6 -1301.8 | 4226 7.2 151999.9 -1329.8 |
| 3957 8.2 143407.6 -1313.6 | 4047 10. 145413.1 -1334.6 | 4137 9.5 151349.1 -1317.6 | 4227 9.5 151999.9 -1347.5 |
| 3958 9.9 143415.2 -1354.3 | 4048 9.7 145416.5 -1320.0 | 4138 9.8 151353.0 -1319.8 | 4228 9.8 151999.9 -1328.4 |
| 3959 9.1 143418.9 -1314.8 | 4049 9.4 145429.7 -1319.1 | 4139 8.7 151421.1 -1359.3 | 4229 9.5 151999.9 -1345.8 |
| 3960 9.8 143435.3 -1330.7 | 4050 9.9 145437.4 -1313.3 | 4140 9.8 151422.1 -1356.5 | 4230 9.8 151999.9 -1342.3 |
| 3961 9.5 143508.2 -1339.7 | 4051 9.2 145438.9 -1355.9 | 4141 9.8 151441.8 -1342.8 | 4231 9.4 151999.9 -1312.4 |
| 3962 9.8 143527.5 -1349.2 | 4052 9.8 145440.2 -1350.0 | 4142 9.3 151447.2 -1349.8 | 4232 8.0 151999.9 -1305.4 |
| 3963 10. 143621.8 -1359.4 | 4053 10. 145513.0 -1322.9 | 4143 9.0 151449.1 -1304.2 | 4233 10. 151999.9 -1325.8 |
| 3964 9.6 143646.2 -1335.7 | 4054 10. 145514.6 -1333.8 | 4144 8.7 151450.1 -1316.2 | 4234 8.5 151999.9 -1334.1 |
| 3965 9.0 143650.8 -1313.3 | 4055 9.8 145529.8 -1356.6 | 4145 8.8 151513.6 -1324.3 | 4235 9.5 151999.9 -1340.1 |
| 3966 10. 143652.0 -1353.3 | 4056 10. 145549.2 -1317.2 | 4146 9.5 151514.9 -1355.6 | 4236 9.5 151999.9 -1326.5 |
| 3967 8.9 143653.9 -1344.6 | 4057 9.9 145555.7 -1325.8 | 4147 9.5 151515.4 -1326.6 | 4237 9.6 151999.9 -1340.8 |



4238 9.5 153706.3 -1349.8  
 4239 9.1 153724.8 -1319.7  
 4240 9.5 153725.4 -1352.9  
 4241 9.4 153739.6 -1319.0  
 4242 10. 153756.3 -1331.0  
 4243 9.6 153816.5 -1313.5  
 4244 9.3 153826.3 -1315.2  
 4245 9.4 153829.2 -1332.5  
 4246 9.8 153906.8 -1308.0  
 4247 9.4 153908.3 -1326.0

4248 9.2 153932.7 -1333.5  
 4249 9.6 153942.2 -1355.2  
 4250 9.8 154014.7 -1324.3  
 4251 9.6 154017.8 -1351.5  
 4252 7.0 154021.6 -1302.5  
 4253 9.5 154113.1 -1309.4  
 4254 9.4 154118.1 -1305.2  
 4255 8.2 154118.6 -1331.3  
 4256 9.5 154131.7 -1326.0  
 4257 9.2 154137.2 -1301.5

4258 9.7 154140.6 -1301.7  
 4259 9.4 154141.1 -1311.0  
 4260 8.0 154156.2 -1336.4  
 4261 9.4 154217.1 -1302.4  
 4262 9.2 154221.2 -1357.5  
 4263 9.5 154251.6 -1318.1  
 4264 9.8 154252.5 -1358.8  
 4265 9.7 154255.2 -1332.7  
 4266 9.8 154258.9 -1317.6  
 4267 9.8 154311.9 -1314.1

4268 9.8 154323.7 -1308.8  
 4269 6.5 154333.7 -1341.7  
 4270 9.3 154405.9 -1317.9  
 4271 9.6 154420.6 -1326.5  
 4272 9.8 154432.7 -1346.8  
 4273 9.9 154442.1 -1309.1  
 4274 9.3 154447.6 -1310.8  
 4275 10. 154502.6 -1305.3  
 4276 9.0 154511.6 -1309.6  
 4277 9.0 154515.6 -1305.5

4278 9.5 154519.2 -1346.7  
 4279 9.6 154533.8 -1355.2  
 4280 9.7 154539.5 -1314.9  
 4281 9.5 154615.1 -1334.4  
 4282 9.5 154619.2 -1350.2  
 4283 10. 154624.7 -1309.5  
 4284 8.4 154632.0 -1315.1  
 4285 9.6 154655.2 -1328.1  
 4286 8.9 154659.3 -1326.6  
 4287 9.8 154718.1 -1330.6

4288 10. 154723.8 -1310.5  
 4289 9.8 154744.8 -1302.1  
 4290 6.8 154807.1 -1357.8  
 4291 9.5 154814.5 -1315.9  
 4292 9.2 154816.0 -1335.8  
 4293 7.9 154841.4 -1308.6  
 4294 9.0 154849.1 -1337.4  
 4295 9.5 154850.4 -1319.1  
 4296 8.7 154855.4 -1357.1  
 4297 9.8 154904.7 -1342.6

4298 10. 154927.6 -1331.7  
 4299 9.6 154938.0 -1306.3  
 4300 9.1 154946.0 -1354.4  
 4301 9.3 155003.1 -1322.1  
 4302 5.0 155005.4 -1351.5  
 4303 9.8 155006.9 -1314.7  
 4304 9.2 155010.6 -1316.9  
 4305 7.2 155022.5 -1301.4  
 4306 9.4 155033.0 -1311.0  
 4307 9.2 155039.6 -1333.5

4308 9.4 155138.9 -1300.3  
 4309 9.5 155155.0 -1346.6  
 4310 9.9 155201.5 -1349.8  
 4311 8.9 155224.0 -1302.5  
 4312 9.5 155225.4 -1306.0  
 4313 9.5 155227.3 -1317.9  
 4314 9.5 155232.5 -1333.0  
 4315 9.5 155316.9 -1305.7  
 4316 9.2 155332.3 -1359.5  
 4317 10. 155344.8 -1355.6

4318 9.6 155402.9 -1332.1  
 4319 10. 155405.0 -1328.5  
 4320 9.1 155416.5 -1345.0  
 4321 9.4 155425.7 -1316.1  
 4322 9.8 155439.9 -1306.8  
 4323 8.0 155445.5 -1324.7  
 4324 10. 155452.5 -1347.2  
 4325 9.8 155453.1 -1355.5  
 4326 9.5 155518.4 -1334.0  
 4327 10. 155526.9 -1332.9

4328 9.5 155543.2 -1347.5  
 4329 9.3 155605.0 -1326.7  
 4330 9.2 155611.5 -1321.8  
 4331 8.8 155622.0 -1355.1  
 4332 10. 155645.7 -1357.7  
 4333 9.8 155658.4 -1326.5  
 4334 9.9 155736.3 -1335.0  
 4335 9.4 155759.9 -1315.5  
 4336 8.2 155800.6 -1329.6  
 4337 7.8 155824.9 -1354.8

4338 9.5 155832.9 -1344.1  
 4339 9.0 155839.6 -1331.5  
 4340 9.4 155839.9 -1352.9  
 4341 9.5 155854.8 -1314.4  
 4342 7.0 155858.4 -1340.4  
 4343 9.5 155901.3 -1325.0  
 4344 8.8 155933.8 -1306.7  
 4345 9.3 155938.8 -1317.5  
 4346 8.5 160005.4 -1332.7  
 4347 7.5 160010.8 -1322.2

4348 10. 160034.7 -1311.6  
 4349 9.0 160048.9 -1357.4  
 4350 9.5 160052.4 -1342.9  
 4351 9.1 160117.4 -1353.0  
 4352 9.7 160128.8 -1304.3  
 4353 9.6 160132.8 -1338.5  
 4354 10. 160144.6 -1339.1  
 4355 9.5 160246.9 -1337.6  
 4356 8.9 160211.6 -1317.8  
 4357 9.1 160237.8 -1307.4

4358 9.1 160233.3 -1324.0  
 4359 9.6 160244.6 -1316.6  
 4360 9.3 160255.2 -1317.6  
 4361 8.0 160256.8 -1336.5  
 4362 9.4 160304.8 -1327.8  
 4363 9.7 160307.2 -1315.7  
 4364 9.8 160324.8 -1348.6  
 4365 9.4 160328.8 -1314.5  
 4366 10. 160333.7 -1312.1  
 4367 9.1 160334.3 -1335.6

4368 9.2 160339.8 -1343.4  
 4369 10. 160347.7 -1330.4  
 4370 8.6 160414.1 -1321.3  
 4371 9.5 160415.9 -1353.6  
 4372 10. 160418.7 -1314.1  
 4373 9.0 160419.3 -1336.9  
 4374 9.1 160424.5 -1318.9  
 4375 9.9 160444.3 -1342.3  
 4376 9.9 160445.2 -1327.6  
 4377 9.1 160448.9 -1324.3

4378 8.5 160451.3 -1339.4  
 4379 9.1 160500.6 -1326.7  
 4380 10. 160529.8 -1352.1  
 4381 9.4 160551.7 -1305.7  
 4382 9.6 160555.1 -1357.5  
 4383 9.2 160558.9 -1335.8  
 4384 9.0 160601.7 -1337.2  
 4385 9.0 160607.3 -1347.6  
 4386 10. 160718.4 -1356.5  
 4387 9.0 160740.8 -1301.8

4388 9.8 160757.6 -1315.2  
 4389 9.0 160822.8 -1316.9  
 4390 9.7 160851.2 -1326.5  
 4391 9.8 160853.7 -1300.4  
 4392 9.1 160912.2 -1319.3  
 4393 10. 160913.0 -1316.9  
 4394 7.0 160943.6 -1300.1  
 4395 7.5 160953.7 -1304.2  
 4396 9.4 160959.2 -1348.3  
 4397 9.4 161026.1 -1328.5

4398 9.2 161031.1 -1324.6  
 4399 9.5 161056.7 -1342.3  
 4400 9.2 161109.9 -1330.1  
 4401 10. 161122.7 -1331.5  
 4402 9.5 161130.0 -1314.9  
 4403 9.7 161140.6 -1307.3  
 4404 9.0 161147.7 -1312.0  
 4405 10. 161211.6 -1307.3  
 4406 8.5 161213.1 -1319.5  
 4407 10. 161213.6 -1345.5

4408 10. 161219.2 -1356.8  
 4409 10. 161254.1 -1345.2  
 4410 10. 161258.1 -1310.8  
 4411 9.3 161321.1 -1324.9  
 4412 8.9 161327.6 -1325.2  
 4413 9.7 161345.1 -1344.1  
 4414 9.0 161411.9 -1307.3  
 4415 9.2 161413.1 -1328.5  
 4416 9.3 161448.4 -1337.0  
 4417 8.9 161510.5 -1337.9

4418 8.3 161613.8 -1317.6  
 4419 8.9 161657.6 -1342.2  
 4420 9.4 161703.9 -1315.6  
 4421 9.8 161708.7 -1330.2  
 4422 10. 161725.1 -1313.8  
 4423 9.4 161732.0 -1325.5  
 4424 8.9 161743.1 -1341.1  
 4425 9.2 161752.6 -1347.4  
 4426 9.3 161807.9 -1317.2  
 4427 9.2 161826.0 -1352.3

4428 10. 161828.6 -1349.9  
 4429 8.5 161841.5 -1330.8  
 4430 8.9 161902.4 -1318.3  
 4431 9.6 161910.6 -1354.3  
 4432 9.4 161915.9 -1311.4  
 4433 9.1 161929.1 -1348.9  
 4434 10. 161936.6 -1347.6  
 4435 9.0 162005.5 -1329.3  
 4436 9.3 162006.5 -1337.6  
 4437 6.8 162021.6 -1303.9

4438 10. 162053.4 -1305.6  
 4439 9.5 162054.8 -1319.7  
 4440 7.2 162117.8 -1314.7  
 4441 9.1 162121.9 -1328.9  
 4442 9.4 162139.4 -1357.2  
 4443 9.4 162148.0 -1353.5  
 4444 9.5 162157.5 -1327.9  
 4445 10. 162234.4 -1301.3  
 4446 9.8 162211.2 -1315.4  
 4447 9.4 162319.5 -1317.2

4448 9.7 162338.0 -1356.2  
 4449 9.3 162349.4 -1351.5  
 4450 9.3 162355.1 -1331.5  
 4451 9.7 162428.8 -1316.2  
 4452 9.5 162503.0 -1319.9  
 4453 8.5 162519.5 -1351.4  
 4454 9.1 162625.4 -1330.2  
 4455 9.8 162809.9 -1332.3  
 4456 9.1 162818.8 -1304.6  
 4457 8.8 162826.7 -1318.0

4458 8.6 162828.5 -1356.3  
 4459 7.8 162835.8 -1325.4  
 4460 9.9 162841.7 -1323.6  
 4461 9.6 162848.8 -1325.1  
 4462 10. 162905.8 -1325.3  
 4463 9.5 162943.3 -1357.5  
 4464 8.9 163000.4 -1313.3  
 4465 9.3 163009.8 -1327.1  
 4466 8.8 163033.9 -1348.1  
 4467 9.8 163040.3 -1332.9

4468 9.0 163059.2 -1308.4  
 4469 9.6 163144.0 -1336.6  
 4470 9.6 163144.3 -1335.0  
 4471 9.7 163227.7 -1313.4  
 4472 9.1 163237.6 -1321.2  
 4473 9.8 163246.5 -1359.4  
 4474 9.0 163250.2 -1329.6  
 4475 9.6 163302.7 -1304.8  
 4476 8.1 163313.8 -1306.5  
 4477 10. 163331.3 -1334.2

4478 8.7 163334.0 -1304.8  
 4479 9.7 163341.7 -1309.3  
 4480 9.4 163417.2 -1358.1  
 4481 9.9 163435.6 -1307.2  
 4482 7.3 163507.7 -1345.0  
 4483 9.5 163515.8 -1351.4  
 4484 9.5 163525.3 -1311.4  
 4485 9.5 163526.9 -1302.2  
 4486 8.8 163537.6 -1352.4  
 4487 8.7 163537.6 -1345.6

4488 10. 163601.2 -1321.9  
 4489 9.9 163601.7 -1345.6  
 4490 9.7 163605.0 -1307.7  
 4491 9.7 163613.5 -1347.9  
 4492 10. 163613.6 -1302.0  
 4493 10. 163622.5 -1348.2  
 4494 9.4 163624.1 -1341.5  
 4495 7.5 163631.5 -1348.4  
 4496 9.8 163646.7 -1302.2  
 4497 9.4 163651.6 -1335.8

4498 9.8 163654.3 -1317.2  
 4499 9.8 163704.9 -1223.7  
 4500 9.7 163713.6 -1307.4  
 4501 9.6 163758.7 -1359.0  
 4502 9.7 163805.1 -1317.2  
 4503 9.4 163834.4 -1334.8  
 4504 7.6 163839.0 -1303.9  
 4505 9.4 163911.2 -1326.9  
 4506 8.8 163912.2 -1333.5  
 4507 9.7 164003.7 -1311.8

4508 9.0 164036.3 -1303.1  
 4509 9.3 164115.7 -1313.4  
 4510 9.1 164120.6 -1323.8  
 4511 9.3 164248.7 -1326.6  
 4512 8.3 164306.6 -1320.5  
 4513 9.3 164333.6 -1311.9  
 4514 8.9 164432.0 -1346.2  
 4515 9.1 164441.4 -1306.8  
 4516 10. 164554.0 -1348.1  
 4517 9.5 164636.4 -1327.6

4518 9.9 164701.8 -1301.1  
 4519 9.0 164727.2 -1335.3  
 4520 9.7 164751.4 -1317.8  
 4521 9.7 164814.6 -1327.4  
 4522 9.3 164842.3 -1326.9  
 4523 9.8 164843.4 -1305.6  
 4524 10. 164852.2 -1328.9  
 4525 9.8 164940.0 -1322.5  
 4526 8.9 165013.6 -1309.3  
 4527 10. 165250.7 -1321.9

4528 7.0 165301.2 -1320.1  
 4529 9.8 165302.4 -1345.0  
 4530 9.6 165325.7 -1352.6  
 4531 8.4 165342.5 -1309.4  
 4532 9.5 165417.3 -1321.0  
 4533 9.3 165442.3 -1346.1  
 4534 9.4 165505.3 -1352.9  
 4535 10. 165555.4 -1326.3  
 4536 8.7 165615.2 -1351.3  
 4537 9.6 165624.6 -1315.5

4538 9.5 165649.7 -1320.1  
 4539 9.5 165649.8 -1310.6  
 4540 8.9 165652.6 -1357.9  
 4541 9.6 165708.5 -1322.8  
 4542 9.0 165745.9 -1328.5  
 4543 7.3 165817.2 -1343.8  
 4544 8.9 165910.2 -1332.7  
 4545 9.0 165922.5 -1356.9  
 4546 9.2 165952.8 -1315.8  
 4547 9.1 170002.8 -1353.0

4548 9.2 170051.7 -1330.9  
 4549 9.1 170106.7 -1333.4  
 4550 9.8 170108.3 -1301.0  
 4551 9.5 170157.8 -1305.0  
 4552 10. 170158.3 -1310.7  
 4553 8.4 170201.7 -1340.1  
 4554 9.4 170201.8 -1302.4  
 4555 9.4 170216.8 -1344.6  
 4556 9.4 170219.5 -1309.0  
 4557 9.5 170220.2 -1313.5

4558 9.0 170221.1 -1331.1  
 4559 9.5 170222.3 -1328.6  
 4560 9.5 170243.8 -1312.0  
 4561 9.5 170258.4 -1322.5  
 4562 8.7 170319.2 -1301.3  
 4563 9.9 170319.7 -1332.8  
 4564 9.5 170351.0 -1318.9  
 4565 9.7 170409.2 -1319.9  
 4566 9.1 170444.2 -1312.5  
 4567 9.8 170502.3 -1331.4

4568 9.3 170512.7 -1313.6  
 4569 8.7 170544.9 -1307.0  
 4570 8.7 170559.8 -1306.4  
 4571 9.5 170649.0 -1319.6  
 4572 9.1 170656.2 -1343.5  
 4573 9.0 170709.7 -1346.9  
 4574 9.1 170730.9 -1304.2  
 4575 9.4 170731.2 -1330.6  
 4576 9.0 170740.2 -1328.8  
 4577 8.6 170745.0 -1319.8

4578 9.8 170801.8 -1306.6  
 4579 9.8 170837.3 -1313.5  
 4580 8.5 170923.7 -1343.7  
 4581 9.1 170939.7 -1323.8  
 4582 9.5 171010.2 -1318.5  
 4583 9.3 171040.7 -1356.7  
 4584 9.4 171120.1 -1338.1  
 4585 9.6 171132.1 -1310.6  
 4586 9.4 171142.7 -1352.5  
 4587 9.6 171147.1 -1324.3

4588 9.8 171211.2 -1328.1  
 4589 8.8 171212.6 -1338.4  
 4590 9.1 171217.2 -1321.7  
 4591 9.7 171243.6 -1320.3  
 4592 9.2 171316.4 -1355.1  
 4593 9.5 171319.4 -1306.0  
 4594 9.4 171333.7 -1356.0  
 4595 9.2 171339.4 -1353.8  
 4596 8.3 171413.6 -1352.6  
 4597 9.2 171429.4 -1350.5



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 4598 | 9.4  | 171438.7 | -1359.0 | 4688 | 8.9  | 172943.1 | -1339.3 | 4778 | 9.4  | 174439.7 | -1317.4 | 4868 | 9.8  | 180221.0 | -1337.0 |
| 4599 | 9.6  | 171444.6 | -1359.8 | 4689 | 9.6  | 172949.1 | -1339.7 | 4779 | 7.2  | 174452.5 | -1336.5 | 4869 | 8.8  | 180236.3 | -1301.0 |
| 4600 | 9.1  | 171503.7 | -1355.6 | 4690 | 8.8  | 173016.1 | -1319.5 | 4780 | 9.1  | 174456.5 | -1330.5 | 4870 | 9.1  | 180300.2 | -1357.4 |
| 4601 | 9.1  | 171516.6 | -1355.1 | 4691 | 9.3  | 173019.4 | -1314.2 | 4781 | 9.4  | 174507.5 | -1349.1 | 4871 | 9.6  | 180309.5 | -1341.0 |
| 4602 | 9.8  | 171543.2 | -1311.7 | 4692 | 9.8  | 173027.0 | -1322.8 | 4782 | 9.4  | 174527.3 | -1316.0 | 4872 | 10.1 | 180321.0 | -1345.3 |
| 4603 | 9.1  | 171546.8 | -1315.1 | 4693 | 9.5  | 173027.8 | -1323.6 | 4783 | 9.9  | 174533.6 | -1331.8 | 4873 | 9.1  | 180333.3 | -1302.2 |
| 4604 | 9.0  | 171601.4 | -1303.6 | 4694 | 9.7  | 173042.6 | -1359.3 | 4784 | 9.7  | 174554.2 | -1306.6 | 4874 | 9.8  | 180345.0 | -1325.4 |
| 4605 | 9.7  | 171603.7 | -1303.4 | 4695 | 9.3  | 173048.5 | -1310.5 | 4785 | 9.8  | 174603.0 | -1316.3 | 4875 | 9.0  | 180354.5 | -1349.6 |
| 4606 | 9.2  | 171625.1 | -1303.4 | 4696 | 7.5  | 173117.5 | -1333.7 | 4786 | 9.4  | 174657.0 | -1344.2 | 4876 | 9.5  | 180358.0 | -1341.9 |
| 4607 | 7.7  | 171631.9 | -1309.2 | 4697 | 9.0  | 173119.6 | -1338.6 | 4787 | 9.5  | 174707.0 | -1358.7 | 4877 | 9.0  | 180401.5 | -1333.0 |
| 4608 | 9.7  | 171704.5 | -1312.6 | 4698 | 9.8  | 173130.0 | -1353.1 | 4788 | 9.3  | 174707.2 | -1311.7 | 4878 | 9.7  | 180407.1 | -1317.7 |
| 4609 | 9.2  | 171724.6 | -1334.4 | 4699 | 9.8  | 173131.9 | -1301.8 | 4789 | 9.4  | 174711.0 | -1357.6 | 4879 | 9.2  | 180422.8 | -1312.0 |
| 4610 | 9.5  | 171742.2 | -1353.7 | 4700 | 9.3  | 173135.8 | -1312.3 | 4790 | 9.2  | 174723.2 | -1317.9 | 4880 | 9.5  | 180423.6 | -1309.1 |
| 4611 | 9.8  | 171754.1 | -1346.1 | 4701 | 9.1  | 173155.2 | -1311.5 | 4791 | 9.5  | 174805.7 | -1309.5 | 4881 | 9.5  | 180427.5 | -1338.8 |
| 4612 | 9.0  | 171807.2 | -1344.3 | 4702 | 9.8  | 173202.6 | -1338.3 | 4792 | 9.0  | 174817.0 | -1325.2 | 4882 | 9.8  | 180448.5 | -1345.3 |
| 4613 | 9.4  | 171818.4 | -1301.6 | 4703 | 10.1 | 173208.1 | -1252.1 | 4793 | 9.8  | 174821.5 | -1347.0 | 4883 | 9.8  | 180511.7 | -1318.1 |
| 4614 | 8.5  | 171832.3 | -1316.0 | 4704 | 9.1  | 173210.1 | -1313.6 | 4794 | 9.3  | 174826.7 | -1310.4 | 4884 | 9.5  | 180521.5 | -1325.9 |
| 4615 | 9.4  | 171845.7 | -1324.1 | 4705 | 10.1 | 173229.9 | -1302.3 | 4795 | 9.6  | 174828.4 | -1313.3 | 4885 | 9.8  | 180535.9 | -1354.8 |
| 4616 | 10.1 | 171855.1 | -1342.1 | 4706 | 10.1 | 173230.1 | -1311.6 | 4796 | 9.2  | 174839.1 | -1304.8 | 4886 | 9.8  | 180539.0 | -1347.1 |
| 4617 | 8.7  | 171902.2 | -1311.8 | 4707 | 9.8  | 173242.5 | -1357.8 | 4797 | 9.5  | 174850.9 | -1245.4 | 4887 | 9.2  | 180555.1 | -1321.7 |
| 4618 | 10.1 | 171910.7 | -1347.3 | 4708 | 10.1 | 173302.0 | -1346.0 | 4798 | 7.8  | 174856.0 | -1337.7 | 4888 | 9.3  | 180606.6 | -1308.6 |
| 4619 | 8.7  | 171910.7 | -1354.1 | 4709 | 9.3  | 173309.6 | -1325.7 | 4799 | 9.2  | 174903.2 | -1307.6 | 4889 | 9.4  | 180625.0 | -1326.1 |
| 4620 | 9.2  | 171912.1 | -1344.7 | 4710 | 9.3  | 173317.5 | -1348.8 | 4800 | 9.8  | 174907.5 | -1357.5 | 4890 | 9.4  | 180627.1 | -1330.5 |
| 4621 | 9.0  | 171928.9 | -1306.3 | 4711 | 8.0  | 173335.1 | -1314.2 | 4801 | 9.9  | 174909.5 | -1343.8 | 4891 | 9.5  | 180631.8 | -1310.7 |
| 4622 | 10.1 | 171946.3 | -1310.5 | 4712 | 9.3  | 173337.3 | -1303.4 | 4802 | 8.9  | 174943.8 | -1309.6 | 4892 | 10.1 | 180644.5 | -1341.8 |
| 4623 | 9.8  | 171947.3 | -1356.5 | 4713 | 9.3  | 173338.6 | -1311.9 | 4803 | 9.3  | 174944.1 | -1323.4 | 4893 | 8.9  | 180707.5 | -1356.9 |
| 4624 | 9.6  | 172007.6 | -1310.8 | 4714 | 9.3  | 173341.1 | -1359.1 | 4804 | 9.5  | 174948.7 | -1302.7 | 4894 | 9.8  | 180720.0 | -1325.8 |
| 4625 | 9.8  | 172025.5 | -1349.2 | 4715 | 8.2  | 173353.0 | -1351.8 | 4805 | 9.8  | 175008.5 | -1250.6 | 4895 | 9.4  | 180723.7 | -1316.7 |
| 4626 | 10.1 | 172026.5 | -1324.1 | 4716 | 9.4  | 173355.1 | -1343.8 | 4806 | 9.8  | 175028.0 | -1356.6 | 4896 | 9.3  | 180732.5 | -1314.0 |
| 4627 | 7.7  | 172054.0 | -1357.1 | 4717 | 9.0  | 173402.6 | -1338.7 | 4807 | 9.0  | 175031.8 | -1303.1 | 4897 | 7.8  | 180742.0 | -1336.6 |
| 4628 | 9.3  | 172101.5 | -1314.3 | 4718 | 10.1 | 173404.0 | -1333.3 | 4808 | 9.1  | 175046.5 | -1358.2 | 4898 | 9.8  | 180748.5 | -1316.0 |
| 4629 | 8.8  | 172114.2 | -1324.9 | 4719 | 9.2  | 173411.3 | -1309.0 | 4909 | 9.1  | 175051.5 | -1345.7 | 4899 | 10.1 | 180801.4 | -1307.4 |
| 4630 | 9.6  | 172122.9 | -1310.5 | 4720 | 9.2  | 173412.8 | -1333.8 | 4910 | 8.0  | 175113.5 | -1341.0 | 4900 | 10.1 | 180803.7 | -1310.0 |
| 4631 | 9.8  | 172136.8 | -1309.8 | 4721 | 9.2  | 173419.2 | -1312.8 | 4911 | 8.2  | 175117.3 | -1300.7 | 4901 | 9.4  | 180807.0 | -1301.3 |
| 4632 | 9.5  | 172149.1 | -1337.6 | 4722 | 9.4  | 173427.1 | -1349.0 | 4912 | 9.0  | 175132.0 | -1344.1 | 4902 | 9.4  | 180819.5 | -1356.8 |
| 4633 | 9.2  | 172229.1 | -1334.5 | 4723 | 9.7  | 173435.0 | -1318.4 | 4913 | 9.0  | 175135.5 | -1322.3 | 4903 | 9.4  | 180828.5 | -1327.8 |
| 4634 | 9.1  | 172232.1 | -1314.0 | 4724 | 9.8  | 173436.6 | -1322.0 | 4914 | 9.5  | 175147.0 | -1359.4 | 4904 | 9.1  | 180831.7 | -1305.6 |
| 4635 | 9.8  | 172239.4 | -1304.0 | 4725 | 9.5  | 173509.3 | -1326.3 | 4915 | 9.8  | 175205.8 | -1315.3 | 4905 | 9.8  | 180846.8 | -1322.3 |
| 4636 | 9.5  | 172257.3 | -1302.4 | 4726 | 10.1 | 173509.5 | -1358.0 | 4916 | 9.8  | 175209.5 | -1325.3 | 4906 | 9.1  | 180848.0 | -1353.1 |
| 4637 | 9.7  | 172306.1 | -1315.9 | 4727 | 9.5  | 173520.8 | -1308.2 | 4917 | 9.1  | 175221.8 | -1311.9 | 4907 | 9.8  | 180901.7 | -1319.2 |
| 4638 | 9.7  | 172334.1 | -1315.1 | 4728 | 8.8  | 173524.5 | -1336.4 | 4918 | 9.5  | 175226.5 | -1320.8 | 4908 | 9.3  | 180917.7 | -1340.5 |
| 4639 | 8.9  | 172339.6 | -1329.1 | 4729 | 9.3  | 173526.1 | -1341.4 | 4919 | 9.4  | 175230.0 | -1323.5 | 4909 | 9.1  | 180924.0 | -1330.6 |
| 4640 | 9.6  | 172400.3 | -1357.5 | 4730 | 8.8  | 173532.4 | -1303.7 | 4920 | 8.0  | 175231.5 | -1345.8 | 4910 | 9.1  | 180927.9 | -1353.8 |
| 4641 | 8.3  | 172401.6 | -1334.0 | 4731 | 9.8  | 173535.2 | -1301.3 | 4921 | 9.3  | 175242.5 | -1320.8 | 4911 | 9.4  | 180929.6 | -1312.7 |
| 4642 | 9.2  | 172406.9 | -1301.3 | 4732 | 6.3  | 173538.0 | -1325.5 | 4922 | 9.5  | 175242.8 | -1304.5 | 4912 | 9.3  | 180936.9 | -1353.8 |
| 4643 | 9.2  | 172427.6 | -1325.9 | 4733 | 9.5  | 173547.6 | -1314.3 | 4923 | 9.5  | 175246.5 | -1320.6 | 4913 | 9.4  | 180947.4 | -1317.4 |
| 4644 | 9.1  | 172431.6 | -1359.4 | 4734 | 9.8  | 173548.5 | -1324.8 | 4924 | 9.6  | 175312.9 | -1337.7 | 4914 | 9.5  | 180949.1 | -1347.9 |
| 4645 | 8.5  | 172437.5 | -1312.2 | 4735 | 9.8  | 173549.3 | -1327.5 | 4925 | 9.0  | 175320.5 | -1327.5 | 4915 | 9.2  | 180952.6 | -1335.8 |
| 4646 | 6.5  | 172439.1 | -1321.8 | 4736 | 9.2  | 173553.4 | -1305.5 | 4926 | 8.7  | 175324.5 | -1334.2 | 4916 | 8.3  | 180953.9 | -1312.6 |
| 4647 | 9.8  | 172449.3 | -1355.2 | 4737 | 9.4  | 173619.4 | -1300.2 | 4927 | 10.1 | 175332.2 | -1340.9 | 4917 | 9.5  | 180955.2 | -1359.7 |
| 4648 | 9.8  | 172501.1 | -1354.1 | 4738 | 9.5  | 173640.5 | -1312.4 | 4928 | 10.1 | 175332.7 | -1356.6 | 4918 | 9.2  | 181008.8 | -1329.5 |
| 4649 | 10.1 | 172513.6 | -1354.5 | 4739 | 9.5  | 173644.5 | -1314.6 | 4929 | 9.3  | 175340.0 | -1321.5 | 4919 | 8.7  | 181010.0 | -1326.3 |
| 4650 | 9.1  | 172525.9 | -1307.8 | 4740 | 8.2  | 173644.6 | -1329.1 | 4930 | 9.1  | 175340.9 | -1359.0 | 4920 | 9.2  | 181014.3 | -1353.3 |
| 4651 | 8.8  | 172531.6 | -1352.5 | 4741 | 8.0  | 173735.6 | -1357.6 | 4931 | 9.5  | 175343.3 | -1348.9 | 4921 | 9.2  | 181017.0 | -1352.2 |
| 4652 | 9.8  | 172534.6 | -1323.6 | 4742 | 9.5  | 173742.3 | -1354.2 | 4932 | 9.6  | 175345.9 | -1341.0 | 4922 | 9.1  | 181017.6 | -1306.0 |
| 4653 | 7.7  | 172540.1 | -1324.0 | 4743 | 9.5  | 173743.5 | -1343.0 | 4933 | 8.4  | 175346.3 | -1308.3 | 4923 | 9.3  | 181019.4 | -1348.2 |
| 4654 | 9.9  | 172619.1 | -1347.7 | 4744 | 9.3  | 173754.9 | -1302.7 | 4934 | 8.9  | 175353.2 | -1302.5 | 4924 | 9.5  | 181020.6 | -1357.5 |
| 4655 | 9.8  | 172632.2 | -1329.4 | 4745 | 7.2  | 173809.4 | -1314.6 | 4935 | 8.7  | 175424.5 | -1311.6 | 4925 | 8.3  | 181022.7 | -1350.7 |
| 4656 | 9.4  | 172636.1 | -1331.4 | 4746 | 10.1 | 173827.1 | -1342.4 | 4936 | 10.1 | 175436.0 | -1352.7 | 4926 | 8.3  | 181023.2 | -1350.8 |
| 4657 | 9.8  | 172639.4 | -1306.7 | 4747 | 9.8  | 173909.1 | -1304.5 | 4937 | 9.7  | 175436.8 | -1337.8 | 4927 | 9.2  | 181027.1 | -1348.4 |
| 4658 | 9.0  | 172641.1 | -1345.0 | 4748 | 9.2  | 173916.5 | -1310.7 | 4938 | 10.1 | 175452.8 | -1341.3 | 4928 | 9.7  | 181029.7 | -1349.9 |
| 4659 | 8.7  | 172641.1 | -1340.3 | 4749 | 8.2  | 173922.0 | -1342.0 | 4939 | 9.5  | 175457.0 | -1321.5 | 4929 | 9.2  | 181032.1 | -1349.4 |
| 4660 | 8.8  | 172655.1 | -1331.6 | 4750 | 9.5  | 173931.1 | -1320.2 | 4940 | 9.0  | 175523.7 | -1314.9 | 4930 | 9.1  | 181039.6 | -1352.6 |
| 4661 | 9.0  | 172702.5 | -1336.4 | 4751 | 9.3  | 173936.6 | -1311.5 | 4941 | 9.9  | 175536.5 | -1314.8 | 4931 | 8.2  | 181042.3 | -1335.6 |
| 4662 | 9.3  | 172704.0 | -1330.7 | 4752 | 8.9  | 173943.5 | -1323.2 | 4942 | 9.8  | 175542.9 | -1343.2 | 4932 | 9.0  | 181042.1 | -1351.7 |
| 4663 | 10.1 | 172709.0 | -1344.0 | 4753 | 8.2  | 173952.1 | -1332.6 | 4943 | 9.4  | 175621.5 | -1336.2 | 4933 | 9.8  | 181051.8 | -1352.0 |
| 4664 | 8.8  | 172714.5 | -1353.1 | 4754 | 10.1 | 174004.9 | -1300.8 | 4944 | 8.8  | 175657.5 | -1345.1 | 4934 | 9.3  | 181052.2 | -1358.2 |
| 4665 | 9.6  | 172714.6 | -1301.9 | 4755 | 9.7  | 174008.1 | -1314.7 | 4945 | 9.5  | 175701.3 | -1305.5 | 4935 | 9.5  | 181054.6 | -1346.4 |
| 4666 | 9.0  | 172721.9 | -1300.6 | 4756 | 10.1 | 174043.6 | -1344.6 | 4946 | 9.8  | 175704.7 | -1356.8 | 4936 | 9.4  | 181056.7 | -1359.8 |
| 4667 | 10.1 | 172724.1 | -1341.1 | 4757 | 10.1 | 174048.0 | -1351.1 | 4947 | 9.8  | 175706.1 | -1331.0 | 4937 | 9.8  | 181106.1 | -1357.9 |
| 4668 | 9.4  | 172725.3 | -1307.3 | 4758 | 9.3  | 174113.6 | -1358.7 | 4948 | 9.5  | 175735.0 | -1334.1 | 4938 | 9.5  | 181137.3 | -1327.0 |
| 4669 | 9.0  | 172733.4 | -1347.5 | 4759 | 9.1  | 174126.0 | -1324.9 | 4949 | 9.0  | 175750.3 | -1339.1 | 4939 | 9.5  | 181138.3 | -1331.2 |
| 4670 | 9.5  | 172734.1 | -1319.6 | 4760 | 9.8  | 174147   |         |      |      |          |         |      |      |          |         |



-13 4958 18h15m

-13 5317 19h11m

|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 4958 | 8.2  | 181504.8 | -1339.9 | 5048 | 9.0  | 182812.3 | -1325.7 | 5138 | 8.7  | 184547.3 | -1357.6 | 5228 | 9.2  | 185846.5 | -1358.8 |
| 4959 | 9.3  | 181517.2 | -1300.7 | 5049 | 9.8  | 182832.2 | -1303.1 | 5139 | 9.2  | 184558.6 | -1355.4 | 5229 | 9.5  | 185855.4 | -1333.4 |
| 4960 | 9.6  | 181519.4 | -1317.1 | 5050 | 9.4  | 182850.7 | -1356.5 | 5140 | 7.8  | 184559.2 | -1347.8 | 5230 | 9.5  | 185856.9 | -1323.4 |
| 4961 | 9.0  | 181537.3 | -1335.5 | 5051 | 9.0  | 182857.8 | -1301.0 | 5141 | 9.7  | 184602.4 | -1326.5 | 5231 | 8.0  | 185859.3 | -1352.9 |
| 4962 | 9.4  | 181539.2 | -1304.5 | 5052 | 9.0  | 182908.5 | -1311.5 | 5142 | 9.0  | 184603.1 | -1343.5 | 5232 | 9.4  | 185902.9 | -1354.2 |
| 4963 | 9.0  | 181550.3 | -1332.6 | 5053 | 9.4  | 182924.9 | -1316.1 | 5143 | 8.5  | 184615.1 | -1311.0 | 5233 | 8.3  | 185914.9 | -1303.6 |
| 4964 | 9.6  | 181615.7 | -1357.9 | 5054 | 9.5  | 182936.8 | -1359.2 | 5144 | 9.4  | 184620.8 | -1346.8 | 5234 | 8.5  | 185934.8 | -1315.5 |
| 4965 | 9.3  | 181620.8 | -1343.7 | 5055 | 7.3  | 182943.4 | -1335.2 | 5145 | 10.1 | 184631.4 | -1335.6 | 5235 | 8.8  | 185941.3 | -1330.5 |
| 4966 | 9.1  | 181621.6 | -1300.6 | 5056 | 9.5  | 183015.4 | -1355.3 | 5146 | 9.0  | 184635.3 | -1337.5 | 5236 | 8.0  | 185945.1 | -1326.8 |
| 4967 | 9.2  | 181626.2 | -1345.0 | 5057 | 9.0  | 183025.3 | -1326.1 | 5147 | 9.5  | 184644.9 | -1324.5 | 5237 | 9.5  | 185950.1 | -1316.4 |
| 4968 | 9.0  | 181626.8 | -1359.0 | 5058 | 9.8  | 183027.8 | -1357.1 | 5148 | 8.9  | 184656.8 | -1305.2 | 5238 | 9.7  | 185957.2 | -1327.9 |
| 4969 | 9.0  | 181646.8 | -1324.3 | 5059 | 9.1  | 183036.3 | -1332.1 | 5149 | 9.8  | 184657.9 | -1348.1 | 5239 | 9.8  | 190003.5 | -1327.2 |
| 4970 | 9.1  | 181650.3 | -1336.1 | 5060 | 8.2  | 183040.5 | -1354.2 | 5150 | 9.4  | 184659.4 | -1351.7 | 5240 | 9.5  | 190004.9 | -1332.8 |
| 4971 | 9.1  | 181702.3 | -1344.4 | 5061 | 9.2  | 183113.3 | -1358.6 | 5151 | 9.2  | 184719.5 | -1313.0 | 5241 | 7.2  | 190016.8 | -1310.7 |
| 4972 | 9.8  | 181724.2 | -1323.7 | 5062 | 9.2  | 183126.3 | -1355.2 | 5152 | 9.2  | 184722.1 | -1306.5 | 5242 | 9.7  | 190028.4 | -1308.7 |
| 4973 | 9.7  | 181726.2 | -1344.0 | 5063 | 9.4  | 183203.2 | -1318.1 | 5153 | 9.7  | 184729.7 | -1358.9 | 5243 | 9.9  | 190031.1 | -1315.5 |
| 4974 | 9.8  | 181746.7 | -1340.4 | 5064 | 8.5  | 183208.5 | -1311.8 | 5154 | 8.7  | 184732.2 | -1314.4 | 5244 | 9.8  | 190034.7 | -1310.1 |
| 4975 | 8.0  | 181806.3 | -1326.5 | 5065 | 9.7  | 183213.7 | -1352.5 | 5155 | 9.5  | 184744.4 | -1351.0 | 5245 | 9.6  | 190052.8 | -1331.1 |
| 4976 | 9.2  | 181807.4 | -1318.4 | 5066 | 9.7  | 183217.5 | -1314.8 | 5156 | 8.8  | 184756.0 | -1308.7 | 5246 | 8.5  | 190052.9 | -1304.7 |
| 4977 | 8.3  | 181811.7 | -1304.5 | 5067 | 8.2  | 183236.1 | -1327.8 | 5157 | 9.4  | 184825.9 | -1358.1 | 5247 | 9.5  | 190109.2 | -1315.9 |
| 4978 | 8.8  | 181816.8 | -1316.2 | 5068 | 9.1  | 183246.6 | -1311.8 | 5158 | 9.3  | 184834.7 | -1335.3 | 5248 | 9.3  | 190111.3 | -1332.0 |
| 4979 | 9.0  | 181827.7 | -1344.3 | 5069 | 9.7  | 183247.1 | -1329.9 | 5159 | 9.1  | 184852.5 | -1314.3 | 5249 | 7.5  | 190114.6 | -1340.9 |
| 4980 | 10.1 | 181831.3 | -1329.1 | 5070 | 9.5  | 183251.4 | -1316.2 | 5160 | 9.4  | 184853.5 | -1353.6 | 5250 | 9.5  | 190115.4 | -1318.3 |
| 4981 | 8.3  | 181844.0 | -1356.0 | 5071 | 7.8  | 183257.3 | -1359.7 | 5161 | 9.6  | 184915.3 | -1331.6 | 5251 | 9.5  | 190121.2 | -1306.2 |
| 4982 | 9.5  | 181853.8 | -1348.3 | 5072 | 9.8  | 183300.5 | -1308.4 | 5162 | 7.8  | 184915.8 | -1317.2 | 5252 | 9.6  | 190132.0 | -1304.1 |
| 4983 | 9.4  | 181902.3 | -1336.1 | 5073 | 9.2  | 183309.5 | -1358.6 | 5163 | 9.2  | 184928.8 | -1342.0 | 5253 | 9.5  | 190135.3 | -1325.5 |
| 4984 | 9.4  | 181916.0 | -1340.4 | 5074 | 9.3  | 183320.1 | -1331.8 | 5164 | 9.5  | 184945.2 | -1317.3 | 5254 | 9.2  | 190146.9 | -1303.8 |
| 4985 | 9.4  | 181919.3 | -1331.5 | 5075 | 9.7  | 183332.6 | -1344.5 | 5165 | 9.0  | 184946.8 | -1347.3 | 5255 | 9.8  | 190149.0 | -1355.3 |
| 4986 | 10.1 | 181922.2 | -1322.8 | 5076 | 9.7  | 183357.7 | -1346.5 | 5166 | 9.3  | 185023.2 | -1333.8 | 5256 | 9.6  | 190150.2 | -1361.5 |
| 4987 | 9.2  | 181937.3 | -1352.5 | 5077 | 10.1 | 183402.1 | -1339.5 | 5167 | 9.5  | 185032.7 | -1347.1 | 5257 | 9.0  | 190157.8 | -1337.4 |
| 4988 | 8.8  | 181938.3 | -1344.7 | 5078 | 9.7  | 183435.2 | -1358.2 | 5168 | 9.6  | 185056.8 | -1356.9 | 5258 | 9.5  | 190208.3 | -1322.9 |
| 4989 | 9.5  | 181952.2 | -1349.6 | 5079 | 9.7  | 183513.1 | -1325.1 | 5169 | 9.5  | 185058.7 | -1343.7 | 5259 | 9.5  | 190227.3 | -1345.9 |
| 4990 | 9.5  | 182007.8 | -1311.2 | 5080 | 9.5  | 183531.9 | -1301.2 | 5170 | 9.1  | 185113.6 | -1350.5 | 5260 | 9.5  | 190246.4 | -1320.4 |
| 4991 | 9.8  | 182017.7 | -1303.2 | 5081 | 9.8  | 183548.9 | -1308.2 | 5171 | 9.8  | 185114.4 | -1352.1 | 5261 | 10.1 | 190248.3 | -1332.8 |
| 4992 | 8.5  | 182027.0 | -1305.0 | 5082 | 9.7  | 183603.3 | -1337.0 | 5172 | 5.5  | 185115.1 | -1301.7 | 5262 | 9.4  | 190250.9 | -1321.5 |
| 4993 | 9.0  | 182027.9 | -1335.1 | 5083 | 9.1  | 183614.4 | -1321.9 | 5173 | 9.1  | 185124.3 | -1303.7 | 5263 | 9.6  | 190316.4 | -1357.5 |
| 4994 | 9.5  | 182037.3 | -1331.6 | 5084 | 8.8  | 183627.3 | -1301.1 | 5174 | 9.1  | 185132.8 | -1336.2 | 5264 | 9.0  | 190324.2 | -1359.3 |
| 4995 | 8.5  | 182043.4 | -1302.6 | 5085 | 10.1 | 183631.6 | -1329.8 | 5175 | 8.9  | 185141.7 | -1343.0 | 5265 | 9.8  | 190324.3 | -1336.6 |
| 4996 | 9.1  | 182057.0 | -1342.8 | 5086 | 9.9  | 183635.1 | -1341.4 | 5176 | 9.2  | 185157.8 | -1332.7 | 5266 | 9.6  | 190326.4 | -1359.2 |
| 4997 | 8.0  | 182111.3 | -1341.4 | 5087 | 10.1 | 183648.7 | -1312.6 | 5177 | 9.2  | 185202.5 | -1316.6 | 5267 | 9.4  | 190334.5 | -1308.0 |
| 4998 | 9.4  | 182126.7 | -1343.4 | 5088 | 9.8  | 183655.5 | -1352.5 | 5178 | 9.5  | 185209.6 | -1333.8 | 5268 | 9.5  | 190336.3 | -1322.0 |
| 4999 | 9.4  | 182134.8 | -1315.8 | 5089 | 9.8  | 183713.3 | -1321.0 | 5179 | 8.5  | 185216.9 | -1356.7 | 5269 | 9.0  | 190405.3 | -1342.5 |
| 5000 | 9.5  | 182143.7 | -1300.0 | 5090 | 9.4  | 183716.6 | -1357.3 | 5180 | 10.1 | 185227.5 | -1342.5 | 5270 | 9.3  | 190408.0 | -1302.9 |
| 5001 | 9.1  | 182146.8 | -1316.0 | 5091 | 9.1  | 183716.8 | -1358.3 | 5181 | 9.0  | 185230.1 | -1341.8 | 5271 | 9.3  | 190445.2 | -1308.4 |
| 5002 | 9.0  | 182148.8 | -1335.1 | 5092 | 10.1 | 183726.7 | -1308.4 | 5182 | 9.1  | 185235.5 | -1358.7 | 5272 | 9.5  | 190449.4 | -1335.2 |
| 5003 | 8.3  | 182151.7 | -1302.3 | 5093 | 7.8  | 183727.7 | -1348.9 | 5183 | 9.0  | 185300.2 | -1311.4 | 5273 | 9.4  | 190451.8 | -1351.3 |
| 5004 | 9.7  | 182152.7 | -1344.9 | 5094 | 9.3  | 183734.0 | -1337.0 | 5184 | 9.3  | 185301.2 | -1338.4 | 5274 | 10.1 | 190505.9 | -1311.9 |
| 5005 | 10.1 | 182203.9 | -1358.6 | 5095 | 9.8  | 183757.0 | -1315.2 | 5185 | 9.0  | 185303.3 | -1331.3 | 5275 | 9.0  | 190519.0 | -1358.7 |
| 5006 | 9.0  | 182207.0 | -1326.7 | 5096 | 9.4  | 183814.2 | -1354.3 | 5186 | 9.3  | 185306.2 | -1353.3 | 5276 | 9.5  | 190521.4 | -1329.4 |
| 5007 | 9.4  | 182214.3 | -1357.9 | 5097 | 9.7  | 183901.7 | -1319.3 | 5187 | 9.6  | 185308.2 | -1344.3 | 5277 | 9.5  | 190525.3 | -1315.8 |
| 5008 | 9.5  | 182222.0 | -1311.6 | 5098 | 9.5  | 183913.1 | -1318.3 | 5188 | 9.5  | 185320.7 | -1347.1 | 5278 | 9.2  | 190557.2 | -1309.3 |
| 5009 | 8.8  | 182224.7 | -1317.0 | 5099 | 9.2  | 183924.8 | -1324.4 | 5189 | 9.5  | 185323.2 | -1355.3 | 5279 | 9.8  | 190603.4 | -1320.0 |
| 5010 | 9.8  | 182235.4 | -1358.5 | 5100 | 9.9  | 183940.4 | -1348.5 | 5190 | 9.5  | 185336.3 | -1313.3 | 5280 | 9.4  | 190629.9 | -1337.7 |
| 5011 | 9.0  | 182236.3 | -1344.5 | 5101 | 9.5  | 183943.6 | -1354.3 | 5191 | 9.4  | 185346.4 | -1307.6 | 5281 | 8.5  | 190632.0 | -1302.9 |
| 5012 | 9.5  | 182238.3 | -1359.7 | 5102 | 9.7  | 183958.3 | -1346.7 | 5192 | 9.1  | 185350.7 | -1352.3 | 5282 | 9.0  | 190649.9 | -1321.3 |
| 5013 | 9.0  | 182302.1 | -1354.2 | 5103 | 9.8  | 184018.9 | -1353.9 | 5193 | 9.5  | 185401.1 | -1319.7 | 5283 | 9.5  | 190652.5 | -1306.9 |
| 5014 | 9.5  | 182308.8 | -1312.4 | 5104 | 9.1  | 184028.6 | -1338.0 | 5194 | 7.8  | 185403.2 | -1327.7 | 5284 | 9.5  | 190720.9 | -1356.0 |
| 5015 | 9.5  | 182320.3 | -1339.9 | 5105 | 9.0  | 184035.5 | -1321.6 | 5195 | 9.2  | 185406.9 | -1305.8 | 5285 | 9.5  | 190722.4 | -1338.3 |
| 5016 | 9.3  | 182327.2 | -1354.3 | 5106 | 9.7  | 184036.0 | -1317.0 | 5196 | 9.3  | 185414.8 | -1312.9 | 5286 | 9.1  | 190737.9 | -1315.0 |
| 5017 | 9.5  | 182328.2 | -1343.5 | 5107 | 9.2  | 184037.3 | -1338.7 | 5197 | 8.9  | 185428.9 | -1327.4 | 5287 | 9.4  | 190806.8 | -1340.7 |
| 5018 | 9.2  | 182331.0 | -1339.4 | 5108 | 9.5  | 184042.3 | -1310.0 | 5198 | 9.5  | 185436.8 | -1359.8 | 5288 | 9.1  | 190821.4 | -1337.4 |
| 5019 | 9.7  | 182335.1 | -1314.1 | 5109 | 9.2  | 184055.5 | -1312.2 | 5199 | 9.5  | 185442.9 | -1349.5 | 5289 | 8.5  | 190824.0 | -1304.8 |
| 5020 | 10.1 | 182411.3 | -1348.6 | 5110 | 10.1 | 184120.1 | -1355.7 | 5200 | 9.0  | 185443.4 | -1321.8 | 5290 | 9.4  | 190832.9 | -1300.4 |
| 5021 | 9.3  | 182413.4 | -1357.1 | 5111 | 9.4  | 184133.6 | -1349.2 | 5201 | 9.8  | 185446.2 | -1343.1 | 5291 | 9.8  | 190835.8 | -1339.4 |
| 5022 | 9.3  | 182416.5 | -1315.9 | 5112 | 9.3  | 184143.2 | -1324.5 | 5202 | 9.5  | 185459.0 | -1337.1 | 5292 | 9.6  | 190839.9 | -1340.7 |
| 5023 | 8.7  | 182439.5 | -1309.5 | 5113 | 9.8  | 184151.0 | -1340.6 | 5203 | 9.8  | 185501.1 | -1313.9 | 5293 | 9.7  | 190843.6 | -1331.7 |
| 5024 | 9.6  | 182459.2 | -1327.1 | 5114 | 9.0  | 184152.6 | -1325.9 | 5204 | 9.4  | 185527.2 | -1355.0 | 5294 | 9.6  | 190843.9 | -1339.9 |
| 5025 | 8.3  | 182502.8 | -1336.0 | 5115 | 8.9  | 184154.0 | -1325.8 | 5205 | 9.8  | 185528.0 | -1329.7 | 5295 | 9.5  | 190844.5 | -1359.4 |
| 5026 | 10.1 | 182509.5 | -1330.5 | 5116 | 9.6  | 184156.3 | -1304.2 | 5206 | 10.1 | 185537.8 | -1346.4 | 5296 | 9.8  | 190859.9 | -1330.2 |
| 5027 | 9.3  | 182521.1 | -1313.7 | 5117 | 9.3  | 184206.7 | -1324.9 | 5207 | 9.5  | 185546.9 | -1301.0 | 5297 | 8.8  | 190913.4 | -1304.8 |
| 5028 | 9.6  | 182524.2 | -1314.2 | 5118 | 9.7  | 184218.6 | -1320.7 | 5208 | 9.1  | 185550.8 | -1339.4 | 5298 | 9.0  | 190934.2 | -1317.6 |
| 5029 | 9.5  | 182546.3 | -1349.6 | 5119 | 6.5  | 184219.3 | -1343.8 | 5209 | 9.5  | 185558.8 | -1326.2 | 5299 | 9.0  | 190945.8 | -1342.0 |
| 5030 | 9.0  | 182552.8 | -1324.0 | 5120 | 9.5  | 184220.3 | -1327.6 | 5210 | 8.6  | 185606.0 | -1359.5 | 5300 | 9.0  | 190948.  |         |



5318 9.7 191149.6 -1324.3  
 5319 10. 191158.9 -1333.6  
 5320 9.7 191212.6 -1345.0  
 5321 8.7 191221.3 -1331.0  
 5322 9.5 191229.0 -1311.1  
 5323 9.5 191233.3 -1320.5  
 5324 9.8 191234.1 -1308.6  
 5325 10. 191253.5 -1331.7  
 5326 8.0 191310.5 -1324.1  
 5327 9.3 191312.0 -1345.5

5328 8.3 191328.1 -1302.2  
 5329 9.8 191336.0 -1312.5  
 5330 9.2 191346.7 -1316.1  
 5331 9.3 191352.0 -1341.0  
 5332 9.5 191438.1 -1352.4  
 5333 9.3 191443.0 -1313.3  
 5334 9.7 191517.5 -1359.6  
 5335 9.6 191520.6 -1301.1  
 5336 8.2 191523.0 -1332.0  
 5337 9.8 191524.4 -1333.2

5338 9.7 191532.9 -1333.2  
 5339 10. 191552.6 -1350.8  
 5340 9.7 191558.3 -1313.3  
 5341 9.5 191608.8 -1337.0  
 5342 8.5 191636.5 -1337.4  
 5343 9.1 191646.7 -1311.8  
 5344 9.1 191657.7 -1345.0  
 5345 7.9 191700.0 -1342.9  
 5346 10. 191701.6 -1317.7  
 5347 9.5 191714.5 -1308.3

5348 9.5 191724.8 -1340.3  
 5349 9.7 191734.0 -1327.6  
 5350 10. 191743.1 -1319.5  
 5351 10. 191744.6 -1334.3  
 5352 9.4 191749.3 -1358.2  
 5353 9.3 191755.1 -1355.3  
 5354 9.8 191815.5 -1316.8  
 5355 9.0 191816.0 -1333.3  
 5356 9.0 191820.5 -1325.0  
 5357 10. 191846.1 -1354.2

5358 9.9 191911.0 -1333.4  
 5359 9.5 191923.6 -1318.0  
 5360 10. 191935.6 -1313.9  
 5361 9.5 191939.1 -1352.4  
 5362 8.8 191946.1 -1349.0  
 5363 10. 191947.6 -1337.4  
 5364 9.8 192006.1 -1328.9  
 5365 9.8 192017.2 -1300.6  
 5366 9.8 192023.6 -1322.4  
 5367 9.4 192037.1 -1317.1

5368 9.3 192051.6 -1332.8  
 5369 9.5 192053.3 -1325.8  
 5370 9.5 192100.0 -1356.2  
 5371 9.5 192106.3 -1358.2  
 5372 9.7 192116.1 -1314.1  
 5373 9.0 192121.1 -1322.1  
 5374 9.8 192152.2 -1353.5  
 5375 8.3 192152.5 -1310.6  
 5376 8.4 192156.1 -1345.1  
 5377 10. 192217.7 -1358.7

5378 9.6 192218.4 -1303.3  
 5379 9.9 192227.6 -1301.9  
 5380 9.1 192235.7 -1312.8  
 5381 10. 192239.2 -1322.4  
 5382 9.3 192246.4 -1338.4  
 5383 9.4 192247.1 -1326.1  
 5384 8.8 192247.6 -1316.5  
 5385 8.0 192249.1 -1340.8  
 5386 9.5 192303.2 -1304.7  
 5387 10. 192314.1 -1319.0

5388 10. 192338.2 -1327.1  
 5389 9.5 192354.1 -1333.0  
 5390 8.8 192406.5 -1300.5  
 5391 9.3 192415.2 -1339.3  
 5392 9.5 192447.0 -1356.3  
 5393 10. 192506.4 -1307.0  
 5394 9.8 192516.1 -1332.5  
 5395 8.9 192530.3 -1327.6  
 5396 9.8 192531.6 -1304.8  
 5397 8.9 192552.0 -1316.9

5398 9.3 192607.7 -1301.1  
 5399 7.3 192619.5 -1314.0  
 5400 9.0 192624.6 -1335.7  
 5401 9.8 192639.2 -1338.3  
 5402 9.8 192647.7 -1310.9  
 5403 10. 192655.6 -1349.0  
 5404 9.1 192738.3 -1326.9  
 5405 8.0 192741.1 -1325.0  
 5406 9.6 192800.2 -1325.1  
 5407 9.5 192801.2 -1346.3

5408 9.5 192810.1 -1308.1  
 5409 9.8 192810.6 -1359.9  
 5410 9.8 192824.2 -1340.9  
 5411 9.2 192826.7 -1320.4  
 5412 9.8 192837.7 -1346.0  
 5413 9.1 192839.9 -1328.7  
 5414 9.5 192842.8 -1349.0  
 5415 7.0 192854.7 -1329.1  
 5416 9.4 192904.7 -1359.1  
 5417 9.5 192912.4 -1308.5

5418 9.4 192920.2 -1322.9  
 5419 9.6 192926.7 -1305.6  
 5420 10. 192954.2 -1315.6  
 5421 9.3 192955.7 -1311.3  
 5422 9.5 193001.2 -1328.5  
 5423 8.3 193003.3 -1304.5  
 5424 9.8 193031.3 -1341.7  
 5425 9.5 193039.8 -1333.2  
 5426 9.8 193055.7 -1335.2  
 5427 8.0 193056.8 -1359.8

5428 9.6 193107.8 -1301.2  
 5429 9.4 193111.7 -1359.0  
 5430 9.8 193112.9 -1314.9  
 5431 9.5 193120.2 -1328.9  
 5432 9.3 193133.2 -1310.5  
 5433 9.4 193140.3 -1343.9  
 5434 9.5 193151.8 -1312.4  
 5435 8.5 193204.3 -1320.7  
 5436 9.5 193210.2 -1348.7  
 5437 9.4 193216.5 -1310.0

5438 9.1 193230.2 -1313.2  
 5439 9.8 193238.8 -1301.6  
 5440 9.8 193252.3 -1302.5  
 5441 10. 193255.7 -1325.9  
 5442 8.8 193308.7 -1331.1  
 5443 9.3 193313.8 -1346.0  
 5444 9.4 193327.2 -1337.5  
 5445 9.8 193331.2 -1316.2  
 5446 9.5 193410.3 -1346.7  
 5447 8.1 193418.3 -1339.6

5448 9.8 193427.2 -1346.5  
 5449 9.8 193438.8 -1342.9  
 5450 9.5 193444.4 -1325.5  
 5451 9.2 193448.2 -1310.9  
 5452 9.9 193501.8 -1351.2  
 5453 9.5 193535.3 -1339.2  
 5454 9.9 193553.4 -1354.7  
 5455 9.8 193557.2 -1322.1  
 5456 9.5 193618.4 -1312.9  
 5457 9.9 193616.8 -1312.2

5458 9.7 193617.5 -1306.1  
 5459 8.7 193623.3 -1344.3  
 5460 9.3 193630.1 -1348.7  
 5461 9.8 193631.8 -1347.0  
 5462 7.2 193703.3 -1304.4  
 5463 8.5 193711.9 -1334.2  
 5464 9.7 193718.4 -1315.9  
 5465 8.6 193720.8 -1336.5  
 5466 9.5 193726.8 -1301.5  
 5467 9.7 193729.4 -1346.5

5468 9.8 193805.9 -1329.4  
 5469 9.3 193811.9 -1338.6  
 5470 9.2 193840.4 -1326.6  
 5471 9.7 193843.7 -1329.8  
 5472 9.5 193907.6 -1359.0  
 5473 8.9 193916.7 -1326.4  
 5474 8.4 193918.2 -1319.2  
 5475 9.5 193918.5 -1349.7  
 5476 9.8 193926.4 -1340.6  
 5477 9.5 193933.9 -1309.9

5478 9.5 193943.9 -1301.0  
 5479 9.8 193946.3 -1314.4  
 5480 9.5 193957.6 -1307.9  
 5481 8.5 194007.3 -1348.2  
 5482 10. 194010.8 -1332.8  
 5483 9.6 194019.9 -1343.4  
 5484 9.8 194023.3 -1304.6  
 5485 9.8 194031.6 -1309.7  
 5486 10. 194043.3 -1315.4  
 5487 9.6 194045.1 -1350.3

5488 9.8 194049.8 -1325.7  
 5489 9.8 194052.9 -1356.0  
 5490 9.8 194057.4 -1354.5  
 5491 9.5 194059.4 -1305.9  
 5492 8.7 194111.4 -1301.5  
 5493 10. 194154.9 -1315.7  
 5494 9.5 194158.7 -1335.7  
 5495 9.7 194159.7 -1344.5  
 5496 9.8 194307.4 -1319.5  
 5497 9.6 194316.9 -1332.7

5498 9.3 194322.3 -1348.6  
 5499 6.3 194339.2 -1324.1  
 5500 9.8 194357.6 -1356.4  
 5501 9.0 194433.4 -1339.9  
 5502 9.5 194454.0 -1342.4  
 5503 9.7 194500.2 -1320.9  
 5504 9.8 194543.5 -1307.4  
 5505 8.5 194547.4 -1310.3  
 5506 8.5 194602.5 -1303.6  
 5507 9.6 194616.8 -1322.8

5508 9.2 194629.4 -1336.1  
 5509 9.4 194641.0 -1340.2  
 5510 10. 194645.2 -1312.2  
 5511 9.8 194648.2 -1323.2  
 5512 8.4 194648.5 -1355.6  
 5513 10. 194651.0 -1300.7  
 5514 9.2 194658.4 -1347.2  
 5515 10. 194706.5 -1345.9  
 5516 9.4 194718.0 -1301.4  
 5517 9.5 194725.5 -1301.2

5518 8.9 194725.8 -1356.7  
 5519 9.0 194734.4 -1327.3  
 5520 9.4 194806.3 -1318.8  
 5521 10. 194807.0 -1305.8  
 5522 8.5 194810.1 -1343.6  
 5523 9.4 194827.4 -1314.0  
 5524 9.8 194858.3 -1319.3  
 5525 9.8 194902.2 -1305.5  
 5526 9.8 194907.4 -1342.7  
 5527 9.2 194918.4 -1300.7

5528 10. 194932.0 -1341.4  
 5529 9.0 194942.5 -1306.9  
 5530 9.1 194956.3 -1308.2  
 5531 9.5 195001.0 -1339.8  
 5532 9.5 195026.5 -1332.7  
 5533 9.2 195031.5 -1315.5  
 5534 9.8 195039.0 -1325.8  
 5535 9.8 195048.4 -1310.2  
 5536 9.4 195048.5 -1343.6  
 5537 9.0 195049.5 -1341.0

5538 9.8 195109.9 -1337.0  
 5539 9.3 195121.3 -1341.8  
 5540 9.5 195127.6 -1329.5  
 5541 9.4 195144.5 -1300.0  
 5542 8.3 195212.0 -1322.9  
 5543 9.5 195219.5 -1320.7  
 5544 9.8 195239.0 -1333.0  
 5545 9.3 195239.5 -1318.3  
 5546 9.5 195258.5 -1329.5  
 5547 9.3 195320.1 -1333.7

5548 9.8 195339.8 -1331.9  
 5549 9.5 195340.0 -1346.5  
 5550 9.7 195345.5 -1304.8  
 5551 9.8 195353.5 -1321.1  
 5552 9.1 195356.0 -1358.9  
 5553 8.7 195405.6 -1301.5  
 5554 9.3 195408.0 -1327.3  
 5555 9.5 195409.8 -1321.7  
 5556 9.8 195427.5 -1346.0  
 5557 8.1 195431.1 -1306.4

5558 9.5 195432.9 -1354.5  
 5559 9.5 195525.3 -1346.4  
 5560 9.5 195535.6 -1320.5  
 5561 9.6 195535.8 -1307.0  
 5562 8.8 195554.8 -1309.9  
 5563 10. 195612.4 -1305.6  
 5564 10. 195612.7 -1320.0  
 5565 9.0 195629.0 -1340.1  
 5566 9.9 195633.5 -1352.2  
 5567 8.7 195714.7 -1316.2

5568 9.3 195716.7 -1313.1  
 5569 6.2 195722.0 -1304.2  
 5570 8.8 195738.4 -1356.9  
 5571 9.8 195749.3 -1306.6  
 5572 8.5 195801.5 -1352.0  
 5573 9.3 195810.0 -1316.9  
 5574 8.8 195819.4 -1346.9  
 5575 9.6 195836.9 -1325.7  
 5576 9.8 195838.7 -1205.7  
 5577 7.2 195841.3 -1320.3

5578 9.7 195843.1 -1356.5  
 5579 9.8 195914.4 -1337.7  
 5580 9.5 195924.4 -1341.0  
 5581 9.6 195934.5 -1329.0  
 5582 9.3 195948.3 -1348.9  
 5583 9.6 195949.4 -1345.4  
 5584 10. 195952.5 -1309.7  
 5585 9.7 195953.5 -1359.4  
 5586 9.5 200005.2 -1324.9  
 5587 10. 200024.8 -1322.5

5588 9.7 200030.5 -1332.4  
 5589 9.8 200054.8 -1355.1  
 5590 9.8 200115.9 -1358.8  
 5591 10. 200117.2 -1332.1  
 5592 9.5 200131.3 -1345.3  
 5593 8.0 200156.1 -1328.1  
 5594 8.4 200201.4 -1315.4  
 5595 9.6 200207.6 -1316.9  
 5596 9.6 200210.0 -1354.2  
 5597 8.2 200211.0 -1325.9

5598 9.0 200211.5 -1358.3  
 5599 9.1 200243.0 -1345.9  
 5600 9.7 200256.7 -1318.0  
 5601 9.5 200301.4 -1315.7  
 5602 9.0 200302.1 -1317.3  
 5603 10. 200308.5 -1355.4  
 5604 9.5 200322.0 -1330.3  
 5605 10. 200336.5 -1328.1  
 5606 9.1 200339.0 -1353.5  
 5607 10. 200345.1 -1310.1

5608 6.0 200421.8 -1302.2  
 5609 9.5 200422.5 -1329.8  
 5610 9.1 200436.4 -1337.6  
 5611 9.1 200447.6 -1326.8  
 5612 10. 200455.7 -1315.4  
 5613 9.7 200539.6 -1349.7  
 5614 9.5 200543.1 -1328.2  
 5615 9.8 200559.2 -1332.7  
 5616 8.5 200606.9 -1355.7  
 5617 9.1 200638.4 -1304.5

5618 9.3 200643.2 -1336.9  
 5619 7.0 200702.1 -1349.2  
 5620 10. 200720.9 -1304.4  
 5621 9.0 200733.2 -1330.4  
 5622 9.0 200743.1 -1338.5  
 5623 9.8 200813.6 -1318.0  
 5624 9.0 200821.7 -1356.4  
 5625 9.3 200822.9 -1359.9  
 5626 9.8 200838.4 -1311.5  
 5627 9.0 200839.9 -1351.2

5628 9.9 200857.8 -1343.6  
 5629 10. 200916.3 -1359.7  
 5630 8.4 200931.2 -1317.0  
 5631 10. 201000.2 -1328.8  
 5632 9.5 201003.2 -1301.8  
 5633 9.8 201056.5 -1325.3  
 5634 9.4 201115.4 -1349.9  
 5635 8.0 201122.9 -1315.0  
 5636 9.0 201136.7 -1332.3  
 5637 8.8 201140.7 -1354.5

5638 9.2 201213.8 -1332.0  
 5639 9.2 201219.7 -1348.5  
 5640 9.8 201220.8 -1330.2  
 5641 9.4 201236.3 -1334.6  
 5642 5.5 201237.6 -1312.9  
 5643 9.9 201305.8 -1319.6  
 5644 9.9 201306.9 -1346.2  
 5645 9.2 201336.2 -1339.1  
 5646 10. 201402.0 -1344.0  
 5647 9.1 201406.7 -1337.5

5648 9.6 201418.3 -1332.6  
 5649 8.9 201420.1 -1322.4  
 5650 10. 201425.3 -1350.2  
 5651 9.2 201436.8 -1341.5  
 5652 9.5 201447.0 -1313.7  
 5653 9.2 201459.8 -1340.6  
 5654 9.1 201503.4 -1332.6  
 5655 9.7 201505.0 -1312.1  
 5656 9.1 201517.4 -1336.7  
 5657 10. 201528.3 -1344.1

5658 9.5 201530.8 -1328.0  
 5659 9.6 201538.0 -1330.7  
 5660 9.9 201554.1 -1306.2  
 5661 8.0 201602.5 -1251.4  
 5662 9.4 201603.3 -1227.5  
 5663 10. 201623.9 -1319.5  
 5664 9.5 201627.8 -1325.8  
 5665 10. 201645.8 -1340.2  
 5666 9.6 201648.3 -1343.5  
 5667 9.4 201726.8 -1350.8

5668 9.0 201741.6 -1306.4  
 5669 9.3 201756.7 -1315.0  
 5670 8.3 201813.4 -1321.3  
 5671 9.8 201850.1 -1332.0  
 5672 9.0 201813.5 -1327.5  
 5673 10. 201834.9 -1324.1  
 5674 10. 201944.9 -1324.3  
 5675 10. 202003.0 -1318.4  
 5676 9.5 202004.2 -1302.3  
 5677 9.0 202019.2 -1337.7

5678 9.5 202030.8 -1332.4  
 5679 9.8 202054.8 -1355.1  
 5680 9.8 202115.9 -1358.8  
 5681 10. 202117.2 -1332.1  
 5682 9.5 202131.3 -1345.3  
 5683 8.0 202156.1 -1328.1  
 5684 8.4 202201.4 -1315.4  
 5685 9.6 202207.6 -1316.9  
 5686 9.6 202210.0 -1354.2  
 5687 8.2 202211.0 -1325.9

5688 9.0 202211.5 -1358.3  
 5689 9.1 202243.0 -1345.9  
 5690 9.7 202256.7 -1318.0  
 5691 9.5 202301.4 -1315.7  
 5692 9.0 202302.1 -1317.3  
 5693 10. 202308.5 -1355.4  
 5694 9.5 202322.0 -1330.3  
 5695 10. 202336.5 -1328.1  
 5696 9.1 202339.0 -1353.5  
 5697 10. 202345.1 -1310.1

5698 6.0 200421.8 -1302.



5678 9.0 202021.2 -1337.7  
 5679 10. 202023.9 -1348.9  
 5680 7.5 202129.0 -1303.9  
 5681 9.8 202132.4 -1340.5  
 5682 9.8 202134.9 -1349.6  
 5683 9.5 202202.9 -1356.8  
 5684 7.5 202213.0 -1330.4  
 5685 9.4 202216.9 -1336.6  
 5686 9.6 202220.7 -1306.1  
 5687 9.8 202221.3 -1311.0

5688 9.4 202230.0 -1329.9  
 5689 9.5 202243.1 -1310.8  
 5690 9.8 202302.0 -1357.6  
 5691 9.7 202334.6 -1342.4  
 5692 9.3 202346.3 -1357.9  
 5693 10. 202346.7 -1337.0  
 5694 9.7 202430.0 -1311.7  
 5695 9.1 202430.2 -1309.5  
 5696 8.8 202458.0 -1356.1  
 5697 9.5 202500.7 -1359.3

5698 9.6 202501.2 -1314.4  
 5699 10. 202522.8 -1308.3  
 5700 9.2 202546.9 -1312.7  
 5701 9.8 202601.5 -1347.9  
 5702 8.7 202609.8 -1352.7  
 5703 8.5 202617.7 -1308.0  
 5704 9.0 202633.1 -1352.1  
 5705 9.8 202645.7 -1350.7  
 5706 9.3 202650.6 -1332.6  
 5707 9.6 202705.0 -1355.8

5708 9.5 202707.5 -1349.1  
 5709 8.5 202729.0 -1327.4  
 5710 9.8 202753.8 -1317.2  
 5711 9.4 202815.1 -1334.6  
 5712 9.4 202821.8 -1316.9  
 5713 7.8 202852.9 -1314.0  
 5714 9.1 202903.1 -1323.2  
 5715 9.6 202906.0 -1323.4  
 5716 8.0 202912.0 -1340.9  
 5717 9.5 202945.8 -1307.1

5718 9.8 202953.2 -1335.0  
 5719 9.5 203007.1 -1353.5  
 5720 8.6 203021.4 -1307.8  
 5721 10. 203026.7 -1354.4  
 5722 9.5 203041.5 -1315.8  
 5723 9.5 203044.1 -1314.3  
 5724 8.5 203047.3 -1309.3  
 5725 9.6 203048.9 -1307.5  
 5726 10. 203119.6 -1317.0  
 5727 10. 203131.4 -1334.0

5728 9.5 203145.7 -1332.3  
 5729 9.1 203234.6 -1348.9  
 5730 9.8 203237.4 -1343.9  
 5731 9.8 203310.2 -1350.2  
 5732 9.5 203336.7 -1354.0  
 5733 9.5 203341.5 -1352.2  
 5734 9.0 203354.7 -1312.3  
 5735 10. 203430.8 -1350.8  
 5736 7.8 203437.7 -1336.1  
 5737 10. 203511.9 -1357.0

5738 9.8 203544.1 -1312.5  
 5739 9.9 203515.7 -1310.2  
 5740 9.7 203530.8 -1313.4  
 5741 9.7 203531.5 -1353.6  
 5742 8.8 203533.4 -1329.3  
 5743 9.1 203535.8 -1357.4  
 5744 9.2 203558.4 -1317.6  
 5745 9.5 203600.2 -1340.4  
 5746 9.1 203613.9 -1355.3  
 5747 9.6 203616.2 -1354.7

5748 9.1 203627.6 -1340.9  
 5749 10. 203634.8 -1317.5  
 5750 9.3 203721.6 -1354.2  
 5751 9.6 203726.5 -1301.8  
 5752 9.9 203736.5 -1301.1  
 5753 8.8 203816.3 -1320.2  
 5754 9.1 203826.0 -1305.5  
 5755 9.1 203829.6 -1319.4  
 5756 10. 203846.6 -1318.7  
 5757 9.9 203914.6 -1359.8

5758 9.5 203918.1 -1302.7  
 5759 10. 204010.0 -1314.2  
 5760 9.3 204015.1 -1333.8  
 5761 8.9 204017.9 -1338.1  
 5762 9.5 204026.8 -1314.8  
 5763 9.3 204032.0 -1347.0  
 5764 9.5 204032.1 -1306.5  
 5765 9.8 204059.8 -1320.2  
 5766 8.2 204105.0 -1308.6  
 5767 9.0 204120.7 -1334.9

5768 9.1 204143.2 -1339.6  
 5769 9.8 204158.7 -1353.6  
 5770 9.8 204203.0 -1314.6  
 5771 9.5 204226.4 -1357.9  
 5772 9.1 204242.5 -1306.9  
 5773 6.3 204243.2 -1304.8  
 5774 9.1 204331.0 -1311.5  
 5775 9.1 204336.7 -1329.1  
 5776 10. 204345.6 -1316.0  
 5777 8.5 204354.6 -1301.9

5778 9.4 204425.4 -1313.1  
 5779 7.0 204430.3 -1344.9  
 5780 9.3 204433.8 -1342.4  
 5781 9.1 204445.8 -1346.7  
 5782 9.8 204456.9 -1350.9  
 5783 20.0 204528.7 -1305.2  
 5784 9.8 204547.3 -1352.5  
 5785 9.1 204548.6 -1307.0  
 5786 8.5 204550.3 -1344.7  
 5787 9.1 204605.3 -1334.4

5788 8.7 204625.3 -1342.4  
 5789 9.8 204713.4 -1330.5  
 5790 8.5 204721.9 -1348.7  
 5791 8.0 204741.0 -1324.8  
 5792 10. 204741.8 -1340.4  
 5793 8.9 204749.1 -1358.3  
 5794 9.8 204825.2 -1316.0  
 5795 10. 204839.3 -1320.5  
 5796 10. 204845.9 -1353.1  
 5797 10. 204848.7 -1327.8

5798 9.4 204906.9 -1333.6  
 5799 10. 204935.7 -1326.5  
 5800 9.4 204957.8 -1329.3  
 5801 9.4 205003.2 -1357.6  
 5802 9.5 205003.4 -1355.4  
 5803 8.5 205007.9 -1310.2  
 5804 9.0 205012.8 -1342.5  
 5805 9.0 205014.9 -1340.6  
 5806 9.5 205017.5 -1351.8  
 5807 7.5 205034.9 -1355.1

5808 9.7 205058.0 -1311.6  
 5809 9.5 205059.8 -1311.9  
 5810 8.4 205105.9 -1346.1  
 5811 9.3 205130.9 -1331.4  
 5812 9.5 205139.5 -1358.4  
 5813 6.8 205155.9 -1336.6  
 5814 9.3 205158.2 -1314.6  
 5815 9.8 205217.5 -1345.3  
 5816 9.5 205222.1 -1353.1  
 5817 9.5 205227.0 -1351.4

5818 9.4 205251.1 -1356.8  
 5819 9.5 205251.4 -1311.5  
 5820 9.8 205252.1 -1325.0  
 5821 9.5 205252.4 -1340.9  
 5822 9.0 205306.2 -1307.7  
 5823 9.7 205306.5 -1317.5  
 5824 9.4 205320.9 -1314.5  
 5825 8.5 205320.2 -1306.1  
 5826 10. 205339.8 -1352.0  
 5827 10. 205359.9 -1327.2

5828 9.5 205407.5 -1303.1  
 5829 9.4 205424.2 -1302.7  
 5830 7.0 205424.2 -1300.6  
 5831 9.4 205436.7 -1304.5  
 5832 9.9 205515.2 -1349.3  
 5833 10. 205521.1 -1329.4  
 5834 9.4 205521.3 -1218.2  
 5835 9.8 205530.7 -1307.4  
 5836 9.5 205534.8 -1301.5  
 5837 8.0 205539.9 -1324.9

5838 9.9 205610.4 -1323.6  
 5839 9.9 205614.2 -1305.6  
 5840 10. 205649.1 -1354.4  
 5841 8.8 205657.1 -1343.8  
 5842 9.6 205704.5 -1330.2  
 5843 9.3 205713.0 -1318.3  
 5844 8.8 205724.7 -1319.3  
 5845 10. 205745.5 -1327.1  
 5846 9.6 205813.2 -1302.2  
 5847 9.6 205817.1 -1349.5

5848 8.7 205825.0 -1334.8  
 5849 9.8 205854.1 -1334.5  
 5850 8.5 205901.0 -1315.7  
 5851 8.5 205909.2 -1346.3  
 5852 9.5 205917.7 -1313.8  
 5853 9.0 205939.3 -1353.5  
 5854 10. 205948.7 -1304.0  
 5855 10. 205952.1 -1350.5  
 5856 9.8 210010.7 -1314.5  
 5857 8.2 210017.1 -1327.5

5858 9.8 210022.5 -1359.1  
 5859 9.5 210024.6 -1320.2  
 5860 8.9 210049.8 -1354.9  
 5861 10. 210122.7 -1341.7  
 5862 9.5 210132.6 -1333.9  
 5863 9.0 210145.1 -1313.1  
 5864 9.6 210155.7 -1342.5  
 5865 10. 210204.4 -1346.5  
 5866 9.5 210219.8 -1339.2  
 5867 9.5 210234.3 -1354.7

5868 9.4 210242.2 -1342.1  
 5869 9.3 210250.7 -1327.4  
 5870 9.2 210317.2 -1342.2  
 5871 9.4 210319.1 -1318.0  
 5872 9.5 210337.1 -1327.5  
 5873 8.9 210353.7 -1333.0  
 5874 9.2 210453.4 -1309.2  
 5875 9.5 210457.1 -1310.7  
 5876 9.4 210459.2 -1359.3  
 5877 9.1 210510.3 -1322.8

5878 8.8 210542.2 -1324.8  
 5879 9.0 210600.5 -1307.9  
 5880 9.5 210609.5 -1311.0  
 5881 7.5 210612.9 -1303.8  
 5882 9.5 210615.0 -1315.8  
 5883 10. 210624.0 -1304.4  
 5884 10. 210630.5 -1339.6  
 5885 9.8 210642.7 -1316.2  
 5886 9.3 210647.0 -1300.4  
 5887 10. 210710.8 -1343.4

5888 8.6 210717.3 -1340.7  
 5889 9.5 210722.4 -1355.8  
 5890 9.2 210744.3 -1341.7  
 5891 6.5 210802.9 -1347.9  
 5892 10. 210804.0 -1314.1  
 5893 9.5 210817.4 -1336.3  
 5894 9.8 210841.0 -1307.1  
 5895 10. 210846.9 -1349.5  
 5896 10. 210847.6 -1330.3  
 5897 6.7 210916.5 -1352.4

5898 9.8 210944.5 -1342.9  
 5899 10. 211013.0 -1308.4  
 5900 8.4 211023.6 -1355.4  
 5901 8.2 211038.0 -1312.0  
 5902 9.1 211114.5 -1323.5  
 5903 9.3 211121.9 -1349.2  
 5904 7.2 211124.6 -1339.1  
 5905 9.4 211126.0 -1317.7  
 5906 9.0 211141.0 -1324.6  
 5907 9.8 211157.0 -1324.7

5908 9.5 211202.9 -1358.0  
 5909 9.3 211203.4 -1346.5  
 5910 8.6 211205.1 -1335.4  
 5911 9.1 211228.5 -1353.3  
 5912 8.0 211252.0 -1329.4  
 5913 9.8 211330.6 -1341.7  
 5914 9.8 211331.3 -1344.4  
 5915 9.8 211342.2 -1355.8  
 5916 5.3 211345.1 -1310.4  
 5917 9.8 211356.6 -1327.0

5918 10. 211357.4 -1359.8  
 5919 9.8 211431.2 -1350.4  
 5920 8.6 211502.3 -1322.9  
 5921 9.4 211528.6 -1320.8  
 5922 9.3 211554.7 -1325.8  
 5923 6.0 211615.1 -1329.4  
 5924 8.7 211627.6 -1324.5  
 5925 9.2 211657.1 -1322.8  
 5926 9.2 211730.6 -1309.9  
 5927 9.4 211737.3 -1326.6

5928 9.0 211800.3 -1341.1  
 5929 9.8 211825.8 -1343.8  
 5930 9.8 211843.7 -1324.6  
 5931 8.8 211928.9 -1309.4  
 5932 10. 211954.8 -1357.9  
 5933 9.2 211957.3 -1315.2  
 5934 9.9 212018.4 -1304.2  
 5935 9.8 212022.9 -1359.1  
 5936 9.8 212043.4 -1303.7  
 5937 10. 212046.4 -1305.8

5938 9.0 212048.0 -1370.5  
 5939 8.7 212049.5 -1213.0  
 5940 10. 212128.2 -1358.8  
 5941 8.8 212129.3 -1324.2  
 5942 9.1 212130.1 -1336.5  
 5943 10. 212139.0 -1332.4  
 5944 9.4 212154.0 -1300.1  
 5945 9.1 212201.2 -1307.7  
 5946 9.8 212224.5 -1336.5  
 5947 9.1 212237.0 -1303.0

5948 9.8 212239.8 -1322.7  
 5949 9.2 212245.9 -1351.1  
 5950 9.8 212247.6 -1343.6  
 5951 9.5 212314.5 -1301.9  
 5952 9.8 212318.3 -1324.0  
 5953 8.2 212341.5 -1308.5  
 5954 9.4 212352.9 -1341.9  
 5955 8.3 212403.8 -1323.8  
 5956 10. 212407.7 -1313.2  
 5957 8.5 212418.2 -1340.8

5958 9.5 212422.4 -1348.1  
 5959 10. 212502.0 -1345.3  
 5960 9.5 212504.0 -1352.8  
 5961 9.0 212548.9 -1334.9  
 5962 9.5 212549.1 -1314.5  
 5963 9.3 212627.5 -1335.1  
 5964 9.3 212636.2 -1354.9  
 5965 9.5 212641.1 -1305.2  
 5966 9.2 212654.9 -1312.9  
 5967 9.4 212705.0 -1328.1

5968 9.1 212706.9 -1355.2  
 5969 9.1 212725.0 -1321.5  
 5970 9.1 212725.8 -1334.0  
 5971 10. 212735.0 -1351.3  
 5972 8.7 212737.0 -1336.7  
 5973 10. 212814.6 -1340.0  
 5974 9.1 212902.6 -1312.8  
 5975 9.8 212934.0 -1356.3  
 5976 9.1 212936.1 -1327.1  
 5977 9.4 212944.1 -1333.5

5978 9.5 212955.7 -1301.8  
 5979 9.5 212956.5 -1324.1  
 5980 9.0 213012.6 -1351.4  
 5981 9.8 213111.1 -1336.2  
 5982 9.2 213115.7 -1300.4  
 5983 9.2 213125.1 -1344.3  
 5984 9.5 213137.5 -1316.1  
 5985 8.3 213146.0 -1316.2  
 5986 10. 213208.7 -1307.8  
 5987 10. 213231.7 -1305.7

5988 9.4 213233.3 -1311.2  
 5989 10. 213243.2 -1336.5  
 5990 9.3 213243.3 -1302.8  
 5991 9.0 213348.2 -1338.6  
 5992 9.4 213350.8 -1354.2  
 5993 9.2 213406.1 -1302.6  
 5994 10. 213407.8 -1327.4  
 5995 9.8 213415.0 -1341.1  
 5996 9.8 213421.1 -1300.6  
 5997 10. 213427.8 -1330.5

5998 10. 213435.7 -1320.7  
 5999 9.4 213445.2 -1338.0  
 6000 9.8 213452.9 -1336.8  
 6001 9.8 213458.2 -1359.7  
 6002 9.5 213526.1 -1356.0  
 6003 9.5 213530.3 -1301.7  
 6004 8.8 213534.6 -1324.8  
 6005 10. 213655.3 -1355.9  
 6006 10. 213656.3 -1335.7  
 6007 9.6 213726.2 -1320.3

6008 6.8 213729.3 -1326.6  
 6009 9.3 213748.4 -1301.9  
 6010 8.8 213755.5 -1311.7  
 6011 10. 213758.2 -1350.2  
 6012 7.7 213826.8 -1315.7  
 6013 9.1 213837.9 -1345.4  
 6014 9.5 213904.3 -1315.1  
 6015 9.2 213906.2 -1310.2  
 6016 10. 213906.4 -1304.4  
 6017 9.3 213914.8 -1327.9

6018 8.0 213935.4 -1347.4  
 6019 9.1 213936.9 -1334.7  
 6020 9.2 213948.9 -1314.5  
 6021 10. 214008.4 -1351.9  
 6022 9.3 214011.6 -1359.9  
 6023 9.4 214011.9 -1339.7  
 6024 9.9 214119.0 -1355.0  
 6025 9.8 214133.0 -1351.5  
 6026 9.3 214146.3 -1214.4  
 6027 9.5 214150.4 -1323.6

6028 10. 214158.2 -1344.5  
 6029 9.0 214158.9 -1335.2  
 6030 9.0 214201.4 -1341.0  
 6031 10. 214209.0 -1305.9  
 6032 10. 214250.0 -1305.9  
 6033 9.4 214330.2 -1311.8  
 6034 10. 214345.5 -1303.6  
 6035 9.3 214348.2 -1328.5  
 6036 9.7 214433.1 -1312.1  
 6037 8.5 214504.5 -1339.3



6038 9.3 214515.7 -1357.9  
 6039 9.8 214516.9 -1330.6  
 6040 9.4 214518.1 -1357.7  
 6041 9.7 214521.5 -1315.6  
 6042 9.9 214523.7 -1356.4  
 6043 9.9 214544.1 -1301.6  
 6044 9.1 214558.7 -1335.2  
 6045 9.0 214615.3 -1332.5  
 6046 8.8 214700.8 -1334.2  
 6047 9.8 214730.6 -1305.1

6048 9.2 214736.3 -1317.6  
 6049 9.6 214756.7 -1318.2  
 6050 9.4 214810.7 -1359.5  
 6051 9.8 214814.2 -1303.0  
 6052 9.7 214818.3 -1317.1  
 6053 9.5 214841.8 -1331.9  
 6054 10.1 214847.1 -1306.1  
 6055 8.6 214912.5 -1340.1  
 6056 9.5 214917.2 -1344.3  
 6057 10.1 214926.5 -1320.6

6058 9.7 214931.9 -1359.1  
 6059 8.6 215006.6 -1336.7  
 6060 7.3 215035.0 -1321.2  
 6061 8.7 215036.0 -1363.2  
 6062 9.4 215036.0 -1350.0  
 6063 9.5 215036.6 -1351.3  
 6064 8.0 215039.8 -1356.7  
 6065 9.5 215100.0 -1352.7  
 6066 9.8 215117.7 -1301.9  
 6067 9.2 215127.9 -1339.5

6068 10.1 215159.0 -1308.8  
 6069 8.9 215217.4 -1323.9  
 6070 8.9 215235.4 -1332.9  
 6071 9.1 215240.5 -1337.8  
 6072 9.2 215303.5 -1330.0  
 6073 9.1 215314.0 -1331.9  
 6074 7.2 215314.4 -1342.8  
 6075 9.9 215324.0 -1308.6  
 6076 9.2 215327.2 -1349.5  
 6077 10.1 215336.0 -1354.4

6078 9.8 215446.5 -1307.1  
 6079 9.1 215513.1 -1350.6  
 6080 10.1 215516.9 -1300.6  
 6081 9.4 215541.0 -1330.3  
 6082 9.9 215558.2 -1340.4  
 6083 9.8 215617.1 -1352.3  
 6084 9.4 215617.6 -1332.1  
 6085 7.2 215618.0 -1343.1  
 6086 9.7 215620.3 -1306.5  
 6087 9.8 215636.1 -1358.4

6088 9.4 215644.4 -1319.0  
 6089 10.1 215656.0 -1326.1  
 6090 9.8 215658.5 -1323.0  
 6091 8.7 215706.7 -1341.6  
 6092 9.8 215718.2 -1308.0  
 6093 9.3 215754.6 -1333.4  
 6094 9.4 215819.9 -1335.5  
 6095 9.6 215822.8 -1347.2  
 6096 9.1 215834.1 -1328.1  
 6097 9.8 215850.7 -1311.2

6098 9.5 215851.5 -1358.2  
 6099 9.9 215853.0 -1316.6  
 6100 9.4 215857.6 -1302.0  
 6101 9.0 215901.4 -1313.0  
 6102 9.8 215926.0 -1319.0  
 6103 9.8 215941.5 -1358.2  
 6104 9.8 215943.2 -1323.0  
 6105 10.1 215944.2 -1358.7  
 6106 9.8 215950.3 -1341.8  
 6107 9.8 220000.9 -1333.8

6108 10.1 220047.2 -1331.2  
 6109 9.0 220103.7 -1308.5  
 6110 9.8 220110.8 -1346.0  
 6111 9.2 220121.5 -1351.8  
 6112 9.1 220123.8 -1337.7  
 6113 9.1 220133.1 -1327.3  
 6114 9.9 220136.0 -1321.5  
 6115 9.1 220146.1 -1338.5  
 6116 9.0 220156.9 -1350.6  
 6117 9.3 220201.4 -1342.3

6118 9.4 220274.8 -1307.0  
 6119 8.7 220230.2 -1302.7  
 6120 9.4 220300.4 -1348.1  
 6121 9.4 220316.5 -1357.1  
 6122 10.1 220324.2 -1349.3  
 6123 9.8 220324.2 -1334.3  
 6124 9.0 220337.0 -1356.4  
 6125 9.6 220337.8 -1319.1  
 6126 9.4 220431.5 -1345.9  
 6127 9.5 220431.5 -1343.5

6128 9.7 220437.9 -1301.8  
 6129 9.2 220443.6 -1319.5  
 6130 8.5 220513.4 -1344.1  
 6131 9.7 220515.2 -1342.5  
 6132 9.1 220535.2 -1343.4  
 6133 9.4 220548.7 -1305.7  
 6134 9.6 220555.9 -1346.4  
 6135 9.2 220600.6 -1356.3  
 6136 9.0 220601.3 -1325.0  
 6137 10.1 220638.0 -1308.1

6138 9.3 220638.7 -1304.4  
 6139 9.9 220728.7 -1306.4  
 6140 9.0 220732.8 -1327.6  
 6141 9.2 220732.8 -1343.9  
 6142 10.1 220751.0 -1359.1  
 6143 9.8 220755.7 -1309.7  
 6144 9.4 220759.3 -1315.0  
 6145 9.0 220805.0 -1357.4  
 6146 9.3 220804.3 -1333.0  
 6147 9.8 220822.1 -1343.2

6148 6.0 220901.9 -1332.8  
 6149 9.0 220904.3 -1344.5  
 6150 9.8 220920.7 -1315.7  
 6151 9.3 220927.2 -1359.3  
 6152 9.6 220942.1 -1346.7  
 6153 9.5 220946.3 -1356.6  
 6154 9.3 220949.4 -1308.8  
 6155 9.3 221027.6 -1340.0  
 6156 9.4 221049.4 -1355.7  
 6157 9.4 221056.7 -1350.0

6158 9.5 221114.0 -1306.4  
 6159 9.3 221114.6 -1300.6  
 6160 10.1 221126.0 -1329.2  
 6161 9.5 221131.9 -1328.7  
 6162 9.4 221149.7 -1350.2  
 6163 9.3 221210.2 -1349.6  
 6164 9.8 221218.7 -1322.2  
 6165 9.5 221222.3 -1317.3  
 6166 9.3 221321.8 -1310.6  
 6167 9.5 221341.6 -1339.2

6168 9.8 221344.4 -1313.9  
 6169 9.0 221353.4 -1321.7  
 6170 8.7 221357.8 -1316.6  
 6171 9.5 221403.1 -1309.6  
 6172 9.5 221405.1 -1314.3  
 6173 9.8 221448.5 -1359.0  
 6174 9.4 221451.2 -1351.6  
 6175 9.8 221600.4 -1328.6  
 6176 9.5 221624.3 -1359.0  
 6177 9.1 221641.8 -1356.1

6178 8.3 221647.8 -1355.1  
 6179 9.3 221658.6 -1356.4  
 6180 8.0 221658.6 -1341.6  
 6181 9.4 221704.8 -1309.1  
 6182 8.9 221711.3 -1306.7  
 6183 9.0 221722.8 -1344.3  
 6184 9.5 221730.9 -1332.4  
 6185 10.1 221739.8 -1324.5  
 6186 9.6 221818.8 -1308.5  
 6187 8.7 221824.4 -1332.2

6188 9.2 221821.7 -1316.6  
 6189 9.8 221846.0 -1304.6  
 6190 10.1 221904.2 -1344.7  
 6191 9.5 221923.9 -1339.1  
 6192 9.0 221930.1 -1312.8  
 6193 8.9 221944.9 -1300.4  
 6194 9.0 221950.7 -1347.9  
 6195 9.8 221956.8 -1321.3  
 6196 9.3 221957.6 -1301.3  
 6197 9.7 222006.5 -1316.4

6198 10.1 222009.0 -1331.3  
 6199 9.0 222106.1 -1338.9  
 6200 9.8 222122.3 -1346.3  
 6201 9.6 222123.2 -1315.2  
 6202 9.4 222157.8 -1310.3  
 6203 9.6 222203.7 -1346.3  
 6204 7.0 222216.6 -1338.9  
 6205 9.4 222228.4 -1306.1  
 6206 9.5 222246.4 -1301.4  
 6207 9.5 222345.3 -1341.9

6208 9.8 222358.2 -1350.8  
 6209 9.3 222403.0 -1300.7  
 6210 10.1 222501.2 -1329.5  
 6211 9.7 222516.4 -1356.6  
 6212 9.4 222518.7 -1356.7  
 6213 10.1 222523.3 -1337.7  
 6214 9.2 222603.0 -1353.8  
 6215 8.7 222606.5 -1307.9  
 6216 9.2 222607.3 -1343.8  
 6217 9.2 222608.2 -1329.5

6218 9.4 222620.7 -1325.2  
 6219 9.5 222743.9 -1342.8  
 6220 9.5 222752.8 -1358.4  
 6221 9.4 222804.5 -1347.0  
 6222 8.5 222805.0 -1337.2  
 6223 9.2 222831.1 -1341.8  
 6224 8.8 222837.1 -1332.7  
 6225 9.3 222905.2 -1308.2  
 6226 8.0 222942.9 -1338.8  
 6227 9.5 222942.9 -1339.5

6228 10.1 223006.3 -1335.8  
 6229 9.5 223008.1 -1318.4  
 6230 8.7 223011.7 -1356.7  
 6231 9.1 223027.9 -1332.1  
 6232 9.6 223132.5 -1339.5  
 6233 10.1 223135.4 -1334.3  
 6234 9.6 223137.8 -1320.3  
 6235 8.0 223151.3 -1321.6  
 6236 9.0 223201.2 -1302.6  
 6237 10.1 223234.5 -1315.0

6238 10.1 223237.1 -1302.5  
 6239 9.3 223302.3 -1319.6  
 6240 9.5 223314.1 -1351.0  
 6241 8.7 223341.5 -1322.2  
 6242 9.5 223351.9 -1358.3  
 6243 9.2 223352.3 -1317.5  
 6244 8.8 223403.0 -1338.3  
 6245 9.8 223406.4 -1301.1  
 6246 9.1 223412.3 -1309.4  
 6247 7.7 223452.0 -1318.6

6248 9.4 223457.7 -1352.3  
 6249 9.0 223515.8 -1300.4  
 6250 8.9 223519.8 -1305.3  
 6251 9.9 223522.6 -1303.3  
 6252 9.8 223525.0 -1328.9  
 6253 9.5 223545.2 -1346.5  
 6254 9.5 223550.2 -1324.7  
 6255 10.1 223555.6 -1355.7  
 6256 9.4 223618.0 -1325.8  
 6257 9.0 223622.2 -1326.6

6258 9.4 223640.6 -1354.1  
 6259 9.4 223653.3 -1325.5  
 6260 9.5 223654.1 -1349.4  
 6261 9.8 223655.9 -1304.0  
 6262 8.2 223745.8 -1446.2  
 6263 9.6 223758.4 -1315.2  
 6264 9.3 223815.5 -1347.7  
 6265 9.9 223818.4 -1407.4  
 6266 9.5 223829.7 -140.7  
 6267 9.6 223831.8 -1355.3

6268 9.2 223849.7 -1339.4  
 6269 9.4 223855.7 -1339.4  
 6270 9.9 223916.9 -1306.5  
 6271 9.3 223917.7 -1338.5  
 6272 8.5 224004.5 -1346.2  
 6273 9.0 224008.0 -1300.6  
 6274 9.4 224008.6 -1351.7  
 6275 9.8 224017.4 -1317.3  
 6276 9.4 224017.8 -1320.6  
 6277 10.1 224050.3 -1322.0

6278 9.7 224123.5 -1318.3  
 6279 9.5 224157.5 -1306.8  
 6280 10.1 224235.2 -1373.5  
 6281 9.4 224243.8 -1355.3  
 6282 8.9 224250.2 -1312.2  
 6283 8.3 224253.2 -1327.2  
 6284 8.8 224311.5 -1352.0  
 6285 9.6 224317.6 -1312.1  
 6286 9.4 224318.1 -1309.6  
 6287 9.3 224354.4 -1304.7

6288 9.4 224357.3 -1340.0  
 6289 9.1 224423.4 -1342.8  
 6290 9.4 224440.5 -1348.2  
 6291 8.9 224442.0 -1319.2  
 6292 6.2 224510.1 -1351.8  
 6293 9.3 224511.4 -1355.1  
 6294 9.8 224540.7 -1322.7  
 6295 9.5 224550.4 -1358.1  
 6296 9.5 224554.6 -1351.9  
 6297 9.6 224619.6 -1315.5

6298 8.7 224637.9 -1320.8  
 6299 9.5 224656.9 -1327.7  
 6300 9.2 224658.1 -1357.0  
 6301 10.1 224730.7 -1308.9  
 6302 10.1 224806.8 -1317.4  
 6303 9.0 224831.7 -1310.3  
 6304 9.0 224837.5 -1330.8  
 6305 9.3 224852.4 -1323.1  
 6306 8.9 224918.5 -1354.6  
 6307 9.9 224934.9 -1323.3

6308 9.2 225028.7 -1318.4  
 6309 9.6 225036.2 -1358.0  
 6310 9.5 225048.9 -1322.2  
 6311 9.5 225051.7 -1308.9  
 6312 9.1 225117.7 -1346.5  
 6313 9.5 225128.2 -1356.6  
 6314 9.5 225128.6 -1319.0  
 6315 9.9 225146.8 -1305.1  
 6316 9.5 225153.9 -1356.0  
 6317 9.1 225154.8 -1331.8

6318 6.5 225157.2 -1350.8  
 6319 9.8 225254.9 -1321.5  
 6320 9.2 225302.5 -1313.5  
 6321 9.5 225314.8 -1351.0  
 6322 8.8 225326.7 -1325.1  
 6323 9.7 225341.8 -1341.4  
 6324 9.4 225402.3 -1351.0  
 6325 9.2 225426.1 -1338.1  
 6326 9.0 225438.2 -1310.9  
 6327 8.5 225510.2 -1329.1

6328 10.1 225518.8 -1345.2  
 6329 9.5 225533.5 -1321.7  
 6330 9.6 225538.9 -1345.1  
 6331 9.8 225519.4 -1303.8  
 6332 9.4 225636.3 -1344.5  
 6333 8.5 225637.0 -1334.0  
 6334 9.4 225710.3 -1302.0  
 6335 9.1 225743.7 -1329.9  
 6336 9.5 225813.3 -1335.8  
 6337 9.8 225828.1 -1346.4

6338 9.7 225841.9 -1245.0  
 6339 9.0 225848.9 -1316.3  
 6340 9.3 225849.4 -1320.5  
 6341 10.1 225857.8 -1324.6  
 6342 9.6 225858.7 -1339.0  
 6343 9.4 225904.4 -1319.5  
 6344 8.3 225922.3 -1330.5  
 6345 9.2 225924.6 -1351.6  
 6346 9.5 230106.1 -1352.6  
 6347 9.4 230107.8 -1359.9

6348 9.5 230112.5 -1307.8  
 6349 9.7 230124.3 -1324.2  
 6350 9.6 230126.4 -1333.8  
 6351 8.5 230151.3 -1324.5  
 6352 9.6 230204.6 -1304.5  
 6353 9.7 230204.9 -1334.9  
 6354 9.8 230247.8 -1327.0  
 6355 8.7 230346.8 -1329.2  
 6356 9.3 230347.6 -1332.9  
 6357 9.1 230353.3 -1329.9

6358 10.1 230353.7 -1304.7  
 6359 9.7 230408.2 -1312.1  
 6360 9.5 230416.3 -1309.1  
 6361 9.4 230424.3 -1339.2  
 6362 9.3 230433.5 -1350.4  
 6363 9.4 230455.6 -1327.6  
 6364 8.7 230512.8 -1326.9  
 6365 8.7 230513.3 -1322.8  
 6366 5.3 230517.0 -1355.5  
 6367 8.9 230534.2 -1327.2

6368 10.7 230551.7 -1357.6  
 6369 9.4 230632.2 -1325.9  
 6370 9.5 230709.8 -1322.7  
 6371 9.0 230750.4 -1309.8  
 6372 7.2 230817.1 -1358.3  
 6373 9.8 230848.2 -1310.8  
 6374 9.4 230856.7 -1343.3  
 6375 9.6 230913.6 -1342.7  
 6376 9.2 230926.2 -1321.5  
 6377 8.3 231009.5 -1325.3

6378 9.8 231030.5 -1358.3  
 6379 9.4 231032.4 -1345.4  
 6380 9.8 231056.0 -1356.4  
 6381 9.7 231059.7 -1318.5  
 6382 9.0 231129.4 -1352.8  
 6383 10.1 231144.7 -1317.5  
 6384 10.1 231222.5 -1322.0  
 6385 9.9 231309.4 -1327.0  
 6386 8.2 231339.7 -1327.3  
 6387 9.4 231350.3 -1356.2

6388 9.6 231355.5 -1352.4  
 6389 9.3 231406.7 -1317.9  
 6390 9.3 231416.5 -1304.0  
 6391 7.8 231418.2 -1314.3  
 6392 9.5 231450.0 -1328.7  
 6393 9.6 231441.0 -1301.3  
 6394 8.8 231448.4 -1346.3  
 6395 8.5 231458.2 -1325.3  
 6396 9.9 231558.3 -1320.4  
 6397 9.5 231636.3 -1332.0



6398 8.8 231644.1 -1334.4  
 6399 9.8 231647.3 -1357.6  
 6400 9.8 231700.6 -1303.1  
 6401 9.4 231733.9 -1319.3  
 6402 8.5 231751.8 -1319.1  
 6403 9.9 231821.3 -1337.0  
 6404 7.3 231847.2 -1344.6  
 6405 9.1 231900.2 -1320.4  
 6406 9.4 231938.9 -1341.7  
 6407 7.0 231953.4 -1343.6

6408 7.7 232034.7 -1300.8  
 6409 9.8 232051.2 -1325.8  
 6410 9.8 232053.7 -1325.8  
 6411 8.5 232102.1 -1348.0  
 6412 9.6 232111.9 -1335.7  
 6413 9.4 232129.7 -1352.1  
 6414 9.8 232148.8 -1333.4  
 6415 9.3 232204.2 -1309.9  
 6416 9.5 232207.4 -1331.7  
 6417 9.5 232210.2 -1351.6

6418 10. 232213.5 -1302.8  
 6419 8.3 232225.5 -1340.3  
 6420 9.7 232312.1 -1322.5  
 6421 9.8 232346.7 -1321.5  
 6422 9.5 232401.4 -1356.5  
 6423 9.3 232441.4 -1353.3  
 6424 9.9 232457.8 -1303.4  
 6425 9.8 232518.1 -1336.5  
 6426 9.6 232519.3 -1312.8  
 6427 9.4 232542.7 -1311.4

6428 6.3 232543.3 -1324.7  
 6429 8.7 232550.9 -1328.1  
 6430 9.4 232601.1 -1327.1  
 6431 8.7 232703.6 -1307.3  
 6432 9.3 232714.3 -1317.3  
 6433 9.3 232725.7 -1355.7  
 6434 9.4 232814.3 -1343.7  
 6435 9.3 232825.0 -1354.5  
 6436 9.1 232900.1 -1318.2  
 6437 9.9 232928.9 -1321.9

6438 9.8 232939.4 -1322.7  
 6439 5.5 233009.0 -1352.0  
 6440 9.1 233010.7 -1300.6  
 6441 9.6 233021.5 -1325.0  
 6442 9.3 233026.0 -1318.4  
 6443 9.8 233032.8 -1318.3  
 6444 9.5 233146.4 -1307.1  
 6445 10. 233223.5 -1305.3  
 6446 9.2 233257.1 -1348.9  
 6447 9.1 233300.7 -1345.5

6448 9.1 233305.5 -1325.7  
 6449 9.4 233403.0 -1346.6  
 6450 9.2 233410.1 -1322.1  
 6451 9.8 233450.0 -1320.3  
 6452 10. 233517.7 -1311.6  
 6453 9.4 233533.3 -1333.0  
 6454 9.0 233541.9 -1300.9  
 6455 8.8 233619.7 -1348.9  
 6456 9.5 233631.8 -1331.6  
 6457 8.5 233641.0 -1359.2

6458 9.9 233733.7 -1328.9  
 6459 9.4 233743.4 -1350.8  
 6460 10. 233745.9 -1332.0  
 6461 8.5 233905.2 -1333.7  
 6462 9.2 233923.6 -1314.9  
 6463 9.5 234020.7 -1345.9  
 6464 9.1 234055.0 -1347.8  
 6465 9.4 234152.3 -1325.9  
 6466 9.3 234210.3 -1309.3  
 6467 9.6 234223.6 -1333.9

6468 9.4 234248.8 -1345.4  
 6469 9.4 234249.2 -1305.6  
 6470 9.3 234256.8 -1320.8  
 6471 7.1 234302.5 -1355.3  
 6472 8.6 234327.4 -1337.5  
 6473 9.3 234435.6 -1313.1  
 6474 9.3 234453.7 -1334.6  
 6475 9.6 234520.0 -1351.8  
 6476 9.4 234524.1 -1356.0  
 6477 10. 234604.3 -1312.4

6478 10. 234631.2 -1311.6  
 6479 10. 234631.6 -1314.5  
 6480 9.4 234644.3 -1341.0  
 6481 9.4 234645.1 -1346.1  
 6482 9.9 234722.8 -1303.2  
 6483 9.3 234730.5 -1346.3  
 6484 10. 234730.8 -1327.4  
 6485 7.2 234818.7 -1357.3  
 6486 9.4 234826.5 -1312.0  
 6487 7.8 234834.1 -1317.3

6488 10. 234839.3 -1333.0  
 6489 9.5 234843.9 -1305.6  
 6490 8.3 234939.0 -1346.1  
 6491 9.5 234947.8 -1359.9  
 6492 10. 234957.9 -1316.3  
 6493 9.8 235026.4 -1356.4  
 6494 9.9 235055.3 -1333.9  
 6495 8.3 235107.5 -1316.2  
 6496 8.7 235126.9 -1335.4  
 6497 9.8 235128.3 -1329.9

6498 9.5 235200.8 -1309.4  
 6499 9.8 235228.1 -1352.5  
 6500 9.1 235230.2 -1344.4  
 6501 9.7 235249.9 -1343.8  
 6502 9.2 235304.2 -1312.6  
 6503 9.1 235315.7 -1344.0  
 6504 8.7 235325.6 -1338.0  
 6505 9.0 235353.6 -1308.3  
 6506 9.3 235406.0 -1304.3  
 6507 9.3 235430.7 -1321.6

6508 9.8 235434.6 -1341.7  
 6509 9.2 235606.4 -1335.7  
 6510 10. 235612.4 -1316.0  
 6511 9.0 235709.3 -1305.5  
 6512 9.3 235715.6 -1304.6  
 6513 9.4 235730.4 -1332.1  
 6514 10. 235753.2 -1313.4  
 6515 9.8 235811.2 -1350.4  
 6516 9.4 235827.4 -1334.2  
 6517 9.5 235838.0 -1334.8

6518 9.7 235855.1 -1336.6  
 6519 9.4 235906.3 -1340.1  
 6520 9.5 235934.6 -1354.6  
 6521 9.4 235944.7 -1311.3  
 1 9.5 00006.4 -1459.8  
 2 10. 00019.0 -1428.6  
 3 10. 00034.2 -1450.4  
 4 9.8 00102.0 -1436.0  
 5 8.8 00133.9 -1416.8  
 6 9.1 00204.9 -1449.9

7 8.5 00211.1 -1458.9  
 8 9.8 00232.8 -1429.2  
 9 8.8 00251.6 -1426.8  
 10 9.8 00254.3 -1442.3  
 11 8.5 00258.0 -1447.7  
 12 9.4 00258.3 -1443.3  
 13 9.3 00301.1 -1432.0  
 14 9.3 00321.3 -1444.8  
 15 9.5 00329.6 -1430.1  
 16 7.9 00330.1 -1442.4

17 8.9 00346.5 -1419.6  
 18 9.8 00351.4 -1451.4  
 19 6.8 00439.6 -1437.3  
 20 9.6 00443.0 -1405.8  
 21 9.1 00502.6 -1419.2  
 22 9.5 00511.7 -1400.4  
 23 7.8 00512.9 -1425.0  
 24 9.5 00535.7 -1406.8  
 25 9.3 00542.5 -1451.7  
 26 9.1 00659.6 -1415.4

27 9.4 00701.5 -1408.0  
 28 10. 00713.3 -1417.5  
 29 7.0 00724.7 -1458.8  
 30 9.5 00735.3 -1431.7  
 31 9.3 00813.2 -1424.7  
 32 8.7 00841.5 -1451.9  
 33 9.0 00853.2 -1417.8  
 34 9.8 00910.4 -1446.4  
 35 7.0 00911.5 -1412.0  
 36 9.4 00911.7 -1417.1

37 10. 00938.2 -1425.1  
 38 9.1 00950.5 -1454.8  
 39 9.8 01002.1 -1400.7  
 40 10. 01016.2 -1424.5  
 41 10. 01029.6 -1442.5  
 42 6.5 01032.7 -1415.6  
 43 10. 01100.6 -1457.6  
 44 9.1 01100.6 -1403.9  
 45 9.3 01131.1 -1444.3  
 46 9.8 01136.2 -1459.1

47 9.3 01211.8 -1408.7  
 48 8.8 01237.3 -1438.0  
 49 8.5 01325.3 -1426.4  
 50 9.3 01423.8 -1412.9  
 51 9.5 01439.0 -1406.9  
 52 9.4 01439.2 -1447.6  
 53 9.8 01448.3 -1404.4  
 54 9.8 01448.7 -1418.0  
 55 8.5 01449.9 -1415.7  
 56 8.8 01531.4 -1419.4

57 9.8 01601.9 -1432.2  
 58 8.5 01616.3 -1453.3  
 59 8.8 01620.8 -1458.2  
 60 9.4 01621.0 -1434.0  
 61 10. 01725.2 -1416.9  
 62 8.7 01834.7 -1403.6  
 63 9.5 01901.6 -1432.5  
 64 9.0 01902.3 -1435.0  
 65 9.5 01906.5 -1431.4  
 66 9.2 01908.6 -1433.9

67 8.0 01916.8 -1449.7  
 68 9.0 02059.1 -1408.6  
 69 9.8 02103.1 -1437.4  
 70 9.6 02114.5 -1411.7  
 71 8.5 02155.7 -1421.4  
 72 9.1 02157.7 -1448.5  
 73 9.8 02226.4 -1427.9  
 74 9.3 02227.9 -1425.7  
 75 8.5 02314.2 -1431.0  
 76 9.4 02320.9 -1416.5

77 9.8 02348.7 -1420.0  
 78 10. 02350.8 -1432.9  
 79 9.8 02351.8 -1437.4  
 80 8.3 02438.6 -1406.8  
 81 10. 02500.9 -1436.0  
 82 9.9 02506.8 -1421.8  
 83 8.0 02524.3 -1417.2  
 84 8.3 02529.4 -1403.1  
 85 9.4 02551.3 -1432.5  
 86 9.4 02601.2 -1451.4

87 10. 02604.7 -1452.8  
 88 10. 02620.3 -1410.9  
 89 10. 02621.9 -1424.5  
 90 9.9 02718.0 -1414.2  
 91 9.3 02730.3 -1438.1  
 92 9.8 02737.4 -1431.4  
 93 10. 02744.8 -1425.5  
 94 9.8 02752.4 -1423.6  
 95 10. 02758.1 -1408.9  
 96 8.9 02807.6 -1442.9

97 9.9 02808.8 -1453.5  
 98 9.5 02816.9 -1438.3  
 99 9.7 02825.1 -1440.9  
 100 9.7 03004.8 -1441.4  
 101 9.3 03031.0 -1430.0  
 102 9.6 03034.0 -1418.0  
 103 9.8 03113.5 -1409.4  
 104 10. 03147.1 -1441.9  
 105 8.9 03149.4 -1403.0  
 106 9.2 03151.5 -1436.1

107 8.9 03212.4 -1424.7  
 108 9.7 03214.5 -1428.5  
 109 9.6 03242.6 -1428.9  
 110 8.0 03246.6 -1440.9  
 111 9.6 03303.0 -1441.5  
 112 9.8 03303.5 -1406.1  
 113 8.7 03309.4 -1451.5  
 114 9.9 03319.2 -1446.1  
 115 10. 03337.1 -1408.4  
 116 10. 03350.8 -1409.6

117 9.0 03417.0 -1427.2  
 118 9.8 03427.1 -1412.0  
 119 9.4 03437.0 -1449.8  
 120 9.5 03452.1 -1454.6  
 121 9.5 03526.2 -1437.9  
 122 9.7 03533.0 -1402.8  
 123 9.5 03654.7 -1457.1  
 124 7.3 03709.1 -1412.4  
 125 9.8 03724.8 -1449.2  
 126 9.1 03803.7 -1439.2

127 9.3 03806.4 -1400.8  
 128 9.8 03812.3 -1446.4  
 129 9.2 03822.8 -1440.9  
 130 10. 03832.2 -1428.5  
 131 9.8 03855.3 -1423.2  
 132 9.8 03926.3 -1438.3  
 133 8.3 03926.8 -1433.1  
 134 8.6 03953.7 -1454.0  
 135 9.3 04002.5 -1455.0  
 136 9.8 04002.9 -1437.1

137 9.5 04016.2 -1401.9  
 138 9.6 04024.0 -1402.7  
 139 9.2 04025.8 -1454.3  
 140 9.3 04037.3 -1407.9  
 141 9.7 04041.8 -1418.6  
 142 9.3 04106.1 -1454.3  
 143 9.3 04127.3 -1459.2  
 144 10. 04159.6 -1408.5  
 145 5.3 04208.4 -1420.7  
 146 9.4 04244.4 -1415.9

147 10. 04306.5 -1432.7  
 148 9.0 04343.9 -1451.6  
 149 10. 04356.5 -1417.0  
 150 8.8 04431.0 -1434.6  
 151 10. 04432.6 -1413.4  
 152 9.0 04451.4 -1400.8  
 153 9.6 04459.0 -1432.3  
 154 7.8 04502.4 -1441.6  
 155 9.3 04520.1 -1438.2  
 156 9.8 04544.5 -1410.1

157 9.1 04605.0 -1433.4  
 158 9.1 04607.1 -1459.0  
 159 9.8 04611.5 -1407.7  
 160 9.7 04612.0 -1414.7  
 161 9.4 04615.6 -1423.3  
 162 7.3 04627.1 -1442.3  
 163 9.8 04630.2 -1459.8  
 164 9.4 04742.7 -1419.7  
 165 9.9 04809.6 -1440.2  
 166 9.8 04814.6 -1400.2

167 9.8 04837.3 -1401.2  
 168 9.9 04923.7 -1427.5  
 169 10. 04941.7 -1439.2  
 170 9.3 04950.2 -1440.3  
 171 9.0 05018.6 -1440.9  
 172 8.9 05055.2 -1452.0  
 173 8.5 05130.7 -1455.9  
 174 8.4 05135.5 -1426.8  
 175 9.5 05139.8 -1428.2  
 176 9.8 05157.0 -1440.5

177 9.9 05200.5 -1408.5  
 178 9.8 05209.2 -1408.5  
 179 9.8 05219.8 -1439.6  
 180 9.9 05220.3 -1431.2  
 181 9.6 05221.3 -1445.9  
 182 9.7 05222.2 -1413.7  
 183 10. 05305.3 -1428.5  
 184 9.0 05309.8 -1422.7  
 185 9.8 05328.3 -1406.2  
 186 9.9 05338.8 -1409.1

187 8.8 05344.8 -1425.9  
 188 9.7 05400.4 -1422.3  
 189 9.8 05410.1 -1418.7  
 190 9.2 05439.8 -1446.8  
 191 8.0 05440.7 -1454.9  
 192 8.8 05450.3 -1407.0  
 193 9.8 05507.8 -1434.5  
 194 10. 05527.7 -1426.0  
 195 9.8 05547.5 -1442.1  
 196 10. 05607.4 -1435.5

197 9.1 05611.9 -1425.5  
 198 9.8 05639.5 -1444.4  
 199 9.3 05639.7 -1415.4  
 200 10. 05650.0 -1454.8  
 201 9.6 05712.9 -1442.3  
 202 10. 05728.4 -1407.0  
 203 7.0 05750.5 -1432.1  
 204 10. 05759.8 -1420.7  
 205 9.8 05805.0 -1459.1  
 206 9.5 05822.7 -1401.6

207 9.5 05829.4 -1415.2  
 208 10. 05846.5 -1430.3  
 209 9.6 05851.0 -1445.5  
 210 10. 05858.1 -1417.6  
 211 9.0 05934.0 -1420.5  
 212 8.6 05943.5 -1454.1  
 213 9.6 10002.5 -1416.4  
 214 9.7 10010.7 -1447.3  
 215 9.7 10015.6 -1440.4  
 216 8.2 10027.5 -1456.7

217 10. 10042.6 -1441.0  
 218 9.2 10053.1 -1401.0  
 219 6.7 10058.5 -1401.7  
 220 9.8 10108.6 -1417.8  
 221 9.9 10157.2 -1426.2  
 222 9.8 10251.2 -1450.8  
 223 8.6 10251.6 -1447.4  
 224 9.4 10334.7 -1448.6  
 225 6.8 10405.7 -1416.2  
 226 10. 10437.3 -1439.9

227 9.1 10440.1 -1427.8  
 228 8.3 10453.7 -1423.8  
 229 10. 10529.2 -1414.9  
 230 10. 10535.2 -1415.1  
 231 8.9 10542.5 -1447.9  
 232 9.7 10547.7 -1442.2  
 233 8.7 10553.9 -1443.8  
 234 10. 10626.3 -1426.4  
 235 7.0 10649.1 -1414.6  
 236 10. 10703.7 -1400.6



237 10. 10722.7 -1442.5  
 238 9.1 10739.2 -1431.1  
 239 9.4 10800.5 -1404.3  
 240 8.7 10810.9 -1440.2  
 241 9.8 10814.3 -1416.8  
 242 9.5 10829.4 -1446.5  
 243 10. 10845.7 -1418.2  
 244 8.4 10815.7 -1418.9  
 245 9.3 10927.7 -1444.9  
 246 9.5 10950.2 -1419.5

247 9.8 10950.5 -1440.4  
 248 9.0 10952.3 -1457.3  
 249 9.9 11000.6 -1402.2  
 250 10. 11007.7 -1401.8  
 251 9.8 11026.3 -1428.0  
 252 7.8 11132.1 -1409.5  
 253 9.4 11136.9 -1417.3  
 254 9.3 11220.2 -1405.9  
 255 8.9 11235.0 -1402.7  
 256 9.8 11307.6 -1451.9

257 9.2 11324.2 -1406.2  
 258 7.0 11330.8 -1439.0  
 259 9.5 11334.2 -1459.8  
 260 9.0 11345.1 -1405.0  
 261 9.8 11407.7 -1410.3  
 262 9.5 11429.0 -1436.0  
 263 9.1 11439.4 -1419.2  
 264 9.8 11440.3 -1409.0  
 265 8.4 11510.3 -1444.3  
 266 9.4 11528.3 -1413.9

267 9.8 11555.2 -1408.3  
 268 9.0 11601.7 -1452.1  
 269 7.9 11616.8 -1457.9  
 270 8.5 11620.7 -1441.4  
 271 9.3 11648.6 -1431.1  
 272 10. 11727.9 -1413.9  
 273 10. 11739.1 -1429.5  
 274 8.5 11808.0 -1424.6  
 275 9.5 11817.7 -1446.5  
 276 8.2 11828.9 -1408.7

277 9.5 11900.6 -1441.6  
 278 9.5 11901.5 -1423.9  
 279 9.5 11901.5 -1400.4  
 280 9.7 11905.2 -1440.2  
 281 8.0 11908.3 -1438.6  
 282 10. 11929.5 -1442.3  
 283 9.6 12000.3 -1404.3  
 284 9.0 12034.6 -1419.1  
 285 8.8 12136.1 -1422.9  
 286 8.5 12148.4 -1446.9

287 9.6 12149.3 -1402.5  
 288 9.2 12205.2 -1420.3  
 289 9.5 12245.0 -1458.1  
 290 8.5 12323.0 -1449.4  
 291 10. 12331.9 -1444.1  
 292 9.0 12337.5 -1454.9  
 293 10. 12417.4 -1430.6  
 294 8.5 12427.3 -1426.0  
 295 5.5 12452.1 -1458.5  
 296 5.5 12618.5 -1457.1

297 9.3 12619.8 -1458.5  
 298 9.0 12756.6 -1438.4  
 299 7.3 12816.7 -1407.4  
 300 9.7 12822.0 -1441.3  
 301 10. 12846.2 -1407.9  
 302 9.1 12857.9 -1419.7  
 303 9.2 12939.9 -1404.7  
 304 9.2 12939.9 -1449.4  
 305 9.2 12947.5 -1425.5  
 306 9.5 13010.4 -1414.1

307 9.3 13045.3 -1454.2  
 308 9.8 13052.3 -1407.2  
 309 10. 13117.3 -1448.7  
 310 9.4 13156.9 -1409.4  
 311 8.4 13157.0 -1439.4  
 312 8.9 13227.2 -1416.9  
 313 9.4 13258.9 -1431.2  
 314 9.4 13305.9 -1411.0  
 315 9.2 13315.0 -1448.0  
 316 9.5 13324.3 -1441.5

317 9.8 13403.7 -1424.1  
 318 9.1 13447.9 -1443.9  
 319 9.2 13526.9 -1452.7  
 320 9.5 13528.3 -1411.6  
 321 9.5 13530.6 -1440.6  
 322 10. 13600.4 -1447.5  
 323 9.0 13619.2 -1425.8  
 324 9.5 13624.5 -1453.3  
 325 9.8 13641.4 -1441.7  
 326 9.0 13703.6 -1455.8

327 9.4 13710.5 -1405.6  
 328 8.4 13746.9 -1433.6  
 329 9.3 13833.3 -1452.1  
 330 9.5 13855.1 -1410.5  
 331 9.7 13906.7 -1405.7  
 332 9.1 13921.1 -1450.8  
 333 8.2 13922.9 -1413.6  
 334 9.4 13935.1 -1404.6  
 335 6.8 13953.5 -1436.8  
 336 9.2 14059.2 -1455.9

337 8.2 14236.3 -1457.0  
 338 9.6 14251.2 -1430.2  
 339 8.2 14301.0 -1425.1  
 340 9.8 14343.6 -1430.7  
 341 9.3 14346.9 -1416.0  
 342 9.0 14419.3 -1409.9  
 343 8.5 14421.9 -1422.2  
 344 9.1 14437.9 -1416.2  
 345 9.1 14448.9 -1405.9  
 346 8.9 14504.2 -1447.6

347 9.8 14524.0 -1417.8  
 348 10. 14532.9 -1412.7  
 349 10. 14558.0 -1427.4  
 350 9.6 14613.0 -1402.9  
 351 9.8 14614.5 -1407.2  
 352 9.1 14625.8 -1435.5  
 353 9.4 14654.7 -1407.5  
 354 9.0 14656.6 -1455.5  
 355 8.8 14733.3 -1423.2  
 356 8.3 14734.6 -1437.9

357 9.2 14754.1 -1405.8  
 358 8.5 14815.8 -1449.2  
 359 9.7 14817.5 -1458.3  
 360 9.5 14849.2 -1420.4  
 361 9.5 14903.6 -1441.6  
 362 9.5 14930.8 -1435.6  
 363 9.9 14933.9 -1453.6  
 364 8.7 15001.6 -1450.4  
 365 9.2 15013.0 -1401.8  
 366 9.0 15058.6 -1459.6

367 9.8 15101.4 -1426.1  
 368 9.0 15120.8 -1444.5  
 369 9.1 15133.2 -1438.3  
 370 9.4 15217.1 -1402.6  
 371 7.0 15228.3 -1434.3  
 372 8.3 15243.8 -1401.5  
 373 7.8 15302.5 -1415.1  
 374 9.6 15316.8 -1433.2  
 375 10. 15320.5 -1422.0  
 376 10. 15339.7 -1431.9

377 10. 15403.2 -1434.8  
 378 8.8 15452.5 -1442.8  
 379 9.1 15459.3 -1402.2  
 380 9.3 15501.9 -1402.0  
 381 10. 15516.4 -1428.1  
 382 9.3 15538.5 -1424.8  
 383 9.8 15558.7 -1407.9  
 384 9.6 15706.8 -1416.2  
 385 10. 15712.7 -1404.4  
 386 8.0 15730.2 -1430.3

387 9.0 15743.1 -1447.1  
 388 9.7 15746.9 -1413.8  
 389 9.1 15821.9 -1437.6  
 390 9.5 15833.3 -1458.5  
 391 8.4 15844.1 -1449.4  
 392 9.2 15850.2 -1452.3  
 393 9.5 15909.5 -1418.0  
 394 8.4 15929.9 -1435.7  
 395 9.3 16023.0 -1441.8  
 396 9.5 20933.1 -1432.8

397 9.3 20937.3 -1434.5  
 398 8.5 20958.9 -1456.5  
 399 9.3 20103.2 -1428.5  
 400 9.5 20114.2 -1410.2  
 401 9.5 20305.0 -1456.1  
 402 8.8 20305.5 -1408.6  
 403 9.8 20450.9 -1409.0  
 404 9.1 20501.6 -1438.9  
 405 9.4 20506.2 -1418.6  
 406 9.5 20517.5 -1411.7

407 9.5 20550.4 -1459.7  
 408 9.3 20606.1 -1448.5  
 409 9.3 20611.1 -1438.2  
 410 9.5 20749.8 -1432.4  
 411 9.5 20810.0 -1405.5  
 412 9.8 20811.8 -1451.1  
 413 9.4 20821.8 -1452.3  
 414 9.6 20831.7 -1419.0  
 415 9.1 20906.1 -1405.7  
 416 9.8 20909.3 -1453.9

417 10. 21001.6 -1405.2  
 418 9.6 21002.5 -1409.9  
 419 8.6 21006.3 -1453.4  
 420 9.5 21010.2 -1445.5  
 421 9.1 21035.2 -1442.8  
 422 9.8 21054.4 -1403.5  
 423 7.2 21110.0 -1448.3  
 424 9.0 21152.1 -1455.1  
 425 9.8 21204.1 -1404.1  
 426 8.8 21212.7 -1458.5

427 9.8 21229.7 -1400.7  
 428 9.5 21315.0 -1433.5  
 429 9.4 21325.7 -1400.2  
 430 9.2 21358.2 -1454.5  
 431 9.8 21402.9 -1426.1  
 432 10. 21423.3 -1452.6  
 433 10. 21436.5 -1440.5  
 434 7.0 21452.0 -1456.9  
 435 10. 21456.8 -1456.0  
 436 9.4 21459.0 -1403.2

437 9.4 21506.3 -1415.7  
 438 9.5 21512.0 -1448.3  
 439 9.3 21519.7 -1410.3  
 440 8.5 21530.8 -1405.2  
 441 9.8 21543.9 -1421.3  
 442 8.8 21558.0 -1425.2  
 443 9.5 21624.9 -1422.1  
 444 8.9 21641.4 -1446.0  
 445 10. 21645.0 -1450.6  
 446 9.6 21648.5 -1428.2

447 9.2 21732.6 -1413.8  
 448 9.9 21755.5 -1444.4  
 449 9.0 21803.4 -1418.3  
 450 9.9 21810.2 -1403.2  
 451 9.3 21812.4 -1441.3  
 452 9.4 21840.9 -1413.8  
 453 8.7 21847.3 -1432.5  
 454 10. 21849.0 -1437.1  
 455 8.8 21929.2 -1422.0  
 456 10. 22017.4 -1437.5

457 9.3 22022.7 -1446.5  
 458 9.5 22033.8 -1409.8  
 459 8.6 22043.6 -1419.6  
 460 9.8 22050.9 -1437.7  
 461 9.7 22110.6 -1441.5  
 462 9.5 22119.3 -1431.4  
 463 8.3 22122.4 -1451.2  
 464 9.8 22140.1 -1417.8  
 465 9.4 22204.7 -1426.9  
 466 9.3 22206.9 -1410.8

467 10. 22252.9 -1446.5  
 468 8.2 22300.5 -1437.3  
 469 9.5 22304.8 -1434.0  
 470 9.2 22412.9 -1456.2  
 471 9.1 22424.1 -1455.3  
 472 9.2 22438.6 -1418.2  
 473 9.4 22526.1 -1438.9  
 474 9.3 22542.1 -1442.0  
 475 9.7 22602.4 -1458.3  
 476 9.3 22657.1 -1440.6

477 9.2 22659.4 -1441.3  
 478 7.7 22707.0 -1448.5  
 479 8.9 22715.3 -1409.5  
 480 9.5 22727.2 -1459.5  
 481 8.3 22728.5 -1426.2  
 482 9.1 22733.9 -1443.9  
 483 9.8 22809.3 -1423.2  
 484 9.8 22816.4 -1424.4  
 485 8.5 22820.5 -1427.2  
 486 9.1 22824.1 -1436.1

487 10. 22845.4 -1426.3  
 488 9.4 22915.1 -1410.4  
 489 10. 22930.4 -1427.4  
 490 9.3 22934.9 -1439.7  
 491 9.2 22956.3 -1403.7  
 492 9.5 23035.1 -1456.4  
 493 9.4 23040.2 -1438.0  
 494 9.1 23117.8 -1437.4  
 495 9.0 23139.4 -1456.0  
 496 8.7 23204.3 -1414.8

497 7.8 23229.8 -1454.4  
 498 8.9 23256.3 -1454.1  
 499 9.5 23304.1 -1406.2  
 500 9.4 23307.2 -1412.7  
 501 9.9 23319.2 -1403.0  
 502 9.8 23322.4 -1439.1  
 503 9.1 23339.9 -1418.4  
 504 9.8 23342.1 -1430.8  
 505 9.9 23355.3 -1429.7  
 506 9.8 23358.0 -1419.5

507 8.5 23433.2 -1407.9  
 508 8.5 23451.4 -1413.9  
 509 9.8 23507.1 -1453.1  
 510 9.9 23508.1 -1441.2  
 511 9.5 23511.1 -1406.3  
 512 8.8 23529.4 -1417.4  
 513 10. 23551.2 -1427.5  
 514 9.4 23600.1 -1405.4  
 515 9.9 23614.7 -1441.0  
 516 9.5 23623.4 -1414.5

517 9.3 23704.7 -1448.6  
 518 9.5 23707.3 -1412.3  
 519 4.0 23712.9 -1428.0  
 520 9.3 23733.4 -1405.4  
 521 8.7 23736.7 -1417.9  
 522 9.7 23756.8 -1424.4  
 523 8.6 23801.3 -1412.7  
 524 8.3 23833.1 -1436.4  
 525 9.2 23848.7 -1433.2  
 526 9.3 23859.8 -1405.4

527 7.7 23941.5 -1435.2  
 528 10. 23950.8 -1438.9  
 529 9.0 24006.5 -1434.1  
 530 9.3 24022.5 -1459.8  
 531 9.1 24024.7 -1451.9  
 532 10. 24033.6 -1410.0  
 533 9.1 24110.9 -1450.1  
 534 10. 24113.5 -1447.1  
 535 9.4 24130.3 -1423.6  
 536 9.3 24131.7 -1414.2

537 9.5 24134.6 -1442.4  
 538 9.2 24222.4 -1438.4  
 539 9.3 24237.2 -1402.1  
 540 9.8 24245.5 -1453.2  
 541 7.5 24304.4 -1427.2  
 542 9.8 24306.6 -1403.3  
 543 9.0 24309.3 -1418.1  
 544 9.4 24325.2 -1430.6  
 545 9.3 24346.4 -1448.7  
 546 9.6 24405.1 -1412.3

547 10. 24418.2 -1429.6  
 548 10. 24526.5 -1457.6  
 549 9.8 24531.7 -1448.3  
 550 9.2 24534.5 -1443.0  
 551 9.0 24540.2 -1444.8  
 552 10. 24559.9 -1435.5  
 553 9.5 24621.1 -1439.5  
 554 9.9 24623.4 -1435.8  
 555 9.6 24636.9 -1451.0  
 556 9.1 24759.3 -1435.8

557 6.8 24801.8 -1436.9  
 558 9.7 24808.4 -1407.9  
 559 9.2 24817.8 -1415.0  
 560 9.1 24824.8 -1400.4  
 561 9.3 24833.0 -1449.9  
 562 9.4 24844.1 -1440.9  
 563 10. 24846.8 -1447.2  
 564 7.9 24901.2 -1417.2  
 565 9.4 24925.2 -1451.5  
 566 9.3 24950.9 -1405.1

567 9.2 24955.2 -1405.0  
 568 10. 25020.1 -1415.2  
 569 9.4 25037.6 -1440.0  
 570 9.4 25132.7 -1403.5  
 571 9.3 25141.5 -1403.0  
 572 9.7 25157.5 -1403.8  
 573 9.4 25205.4 -1400.2  
 574 9.5 25225.6 -1427.5  
 575 9.8 25243.4 -1426.9  
 576 6.9 25303.2 -1415.8

577 9.5 25334.4 -1439.1  
 578 9.6 25335.3 -1410.3  
 579 9.9 25351.7 -1445.3  
 580 9.3 25353.6 -1402.3  
 581 9.8 25410.6 -1450.3  
 582 9.6 25422.3 -1401.2  
 583 9.5 25431.1 -1444.2  
 584 9.1 25435.6 -1443.9  
 585 10. 25442.2 -1413.0  
 586 9.1 25444.3 -1427.7

587 9.1 25449.2 -1410.1  
 588 9.5 25454.1 -1438.7  
 589 8.6 25532.2 -1450.0  
 590 9.5 25532.5 -1412.7  
 591 7.8 25535.7 -1406.1  
 592 9.8 25537.4 -1454.4  
 593 8.9 25559.0 -1458.9  
 594 9.5 25612.8 -1417.5  
 595 9.7 25621.1 -1429.7  
 596 9.1 25659.0 -1448.1



597 9.1 25720.3 -1409.6  
 598 8.2 25815.2 -1457.9  
 599 9.0 25833.7 -1454.8  
 600 9.2 25909.5 -1405.3  
 601 7.6 25912.3 -1400.2  
 602 10. 25927.9 -1436.8  
 603 9.8 25942.6 -1422.0  
 604 6.5 30027.5 -1418.8  
 605 9.3 30059.3 -1431.5  
 606 9.3 30147.3 -1451.5  
 607 9.7 30212.3 -1400.7  
 608 9.6 30243.1 -1450.3  
 609 9.8 30244.9 -1436.5  
 610 9.1 30320.7 -1424.8  
 611 8.0 30349.8 -1457.8  
 612 8.9 30401.9 -1407.2  
 613 9.7 30421.0 -1438.0  
 614 9.5 30422.5 -1410.5  
 615 9.4 30427.1 -1417.1  
 616 9.7 30428.2 -1430.0  
 617 7.7 30440.1 -1404.5  
 618 10. 30457.6 -1416.7  
 619 9.8 30504.4 -1432.4  
 620 8.7 30516.4 -1447.4  
 621 9.4 30548.6 -1416.3  
 622 9.2 30620.3 -1444.0  
 623 9.8 30622.8 -1425.0  
 624 9.5 30630.4 -1442.7  
 625 7.5 30647.1 -1411.2  
 626 9.8 30713.9 -1422.2  
 627 7.5 30801.8 -1459.0  
 628 9.3 30805.0 -1432.3  
 629 7.2 30815.4 -1422.1  
 630 8.4 30827.5 -1402.2  
 631 9.8 30856.5 -1430.6  
 632 8.7 30906.1 -1441.3  
 633 9.8 30910.1 -1400.0  
 634 9.8 31019.8 -1416.0  
 635 9.7 31027.8 -1429.3  
 636 9.8 31030.4 -1401.1  
 637 9.3 31034.2 -1411.0  
 638 9.2 31034.7 -1414.3  
 639 9.0 31056.2 -1438.9  
 640 9.7 31119.9 -1424.0  
 641 8.2 31125.4 -1421.9  
 642 9.3 31126.0 -1412.3  
 643 9.0 31135.9 -1424.4  
 644 10. 31138.3 -1439.3  
 645 9.5 31141.7 -1411.0  
 646 7.5 31153.3 -1446.9  
 647 9.8 31242.3 -1403.1  
 648 8.3 31318.9 -1440.1  
 649 9.7 31327.4 -1403.5  
 650 9.4 31328.2 -1431.0  
 651 9.4 31337.3 -1446.9  
 652 9.3 31426.1 -1430.3  
 653 8.8 31550.8 -1417.8  
 654 9.5 31555.5 -1425.1  
 655 9.5 31601.5 -1407.7  
 656 9.8 31602.0 -1450.9  
 657 7.4 31640.4 -1444.4  
 658 8.8 31714.9 -1437.0  
 659 9.5 31720.2 -1424.6  
 660 9.1 31728.0 -1452.8  
 661 6.3 31736.8 -1430.7  
 662 9.8 31759.5 -1431.6  
 663 8.5 31807.2 -1404.8  
 664 9.8 31812.5 -1412.0  
 665 7.9 31813.0 -1438.0  
 666 9.8 31844.9 -1421.7  
 667 9.4 31928.7 -1411.2  
 668 9.6 31935.9 -1414.5  
 669 8.9 31937.4 -1439.4  
 670 9.4 31944.2 -1451.9  
 671 10. 31950.8 -1409.6  
 672 9.7 31952.1 -1446.4  
 673 9.5 31954.0 -1454.1  
 674 10. 31958.0 -1421.3  
 675 9.1 32002.1 -1454.8  
 676 10. 32033.2 -1428.0  
 677 6.8 32055.2 -1452.3  
 678 9.5 32110.0 -1456.9  
 679 10. 32117.6 -1420.3  
 680 10. 32203.4 -1440.9  
 681 9.5 32227.7 -1454.1  
 682 8.9 32259.2 -1455.8  
 683 9.5 32300.3 -1458.0  
 684 9.5 32309.4 -1413.1  
 685 9.8 32314.2 -1448.0  
 686 9.9 32319.4 -1438.5

687 9.5 32331.4 -1436.7  
 688 9.0 32422.6 -1450.8  
 689 9.1 32428.9 -1436.6  
 690 10. 32552.1 -1412.5  
 691 9.3 32613.7 -1408.8  
 692 9.3 32614.9 -1450.3  
 693 9.5 32620.8 -1454.2  
 694 9.1 32624.1 -1444.6  
 695 9.7 32627.7 -1443.9  
 696 8.8 32636.3 -1406.1  
 697 8.8 32645.4 -1457.8  
 698 9.8 32708.3 -1443.1  
 699 8.7 32720.5 -1419.5  
 700 10. 32725.4 -1406.1  
 701 10. 32747.2 -1428.4  
 702 10. 32818.5 -1409.1  
 703 9.0 32952.4 -1403.8  
 704 9.1 32953.3 -1441.0  
 705 9.3 33000.1 -1409.8  
 706 7.8 33001.6 -1435.2  
 707 9.4 33006.3 -1400.8  
 708 8.9 33018.9 -1424.8  
 709 9.8 33037.4 -1442.5  
 710 9.9 33058.5 -1457.9  
 711 8.2 33104.4 -1426.8  
 712 9.7 33118.0 -1431.8  
 713 9.3 33127.5 -1427.2  
 714 9.1 33129.7 -1437.0  
 715 9.0 33149.0 -1428.5  
 716 10. 33206.1 -1431.6  
 717 9.6 33210.5 -1458.0  
 718 9.5 33255.3 -1423.6  
 719 10. 33306.2 -1406.3  
 720 9.4 33313.1 -1445.6  
 721 9.0 33401.5 -1424.2  
 722 9.2 33405.9 -1450.5  
 723 9.8 33415.2 -1411.2  
 724 9.8 33429.2 -1450.9  
 725 9.1 33431.0 -1453.0  
 726 8.9 33432.1 -1427.9  
 727 9.5 33441.9 -1422.8  
 728 9.8 33443.3 -1404.0  
 729 7.2 33449.5 -1446.0  
 730 9.8 33452.5 -1420.0  
 731 9.8 33500.3 -1412.1  
 732 7.2 33509.6 -1450.1  
 733 9.5 33546.2 -1406.5  
 734 9.5 33600.2 -1409.7  
 735 9.3 33627.6 -1406.5  
 736 9.5 33637.9 -1419.2  
 737 9.7 33702.0 -1404.0  
 738 9.0 33716.7 -1433.5  
 739 10. 33759.6 -1447.4  
 740 9.5 33803.3 -1443.8  
 741 9.0 33829.7 -1458.3  
 742 9.9 33830.0 -1406.6  
 743 10. 33830.6 -1418.8  
 744 10. 33834.9 -1426.3  
 745 9.6 33914.2 -1455.7  
 746 9.4 33919.4 -1435.5  
 747 9.9 33924.1 -1438.0  
 748 9.1 34000.5 -1415.8  
 749 7.3 34012.7 -1455.9  
 750 9.9 34026.0 -1430.7  
 751 9.7 34059.0 -1445.2  
 752 9.1 34144.1 -1406.3  
 753 9.7 34144.9 -1402.9  
 754 9.2 34204.2 -1419.5  
 755 9.4 34214.5 -1438.9  
 756 9.3 34257.7 -1441.6  
 757 8.8 34259.1 -1419.7  
 758 9.8 34346.6 -1422.1  
 759 10. 34404.1 -1414.5  
 760 10. 34416.3 -1406.3  
 761 9.7 34435.4 -1443.8  
 762 9.3 34503.0 -1412.0  
 763 9.0 34507.8 -1401.4  
 764 9.6 34529.7 -1400.8  
 765 8.0 34531.6 -1418.0  
 766 8.8 34610.4 -1433.0  
 767 8.3 34618.6 -1406.2  
 768 9.3 34629.9 -1430.3  
 769 9.0 34656.2 -1421.5  
 770 9.3 34658.4 -1426.7  
 771 9.5 34708.0 -1408.6  
 772 8.0 34712.9 -1426.0  
 773 9.7 34714.4 -1450.5  
 774 10. 34745.9 -1412.4  
 775 9.2 34747.1 -1415.0  
 776 9.5 34752.0 -1434.9

777 9.5 34804.3 -1447.6  
 778 9.1 34814.3 -1453.2  
 779 9.5 34818.9 -1428.4  
 780 9.0 34849.9 -1431.3  
 781 8.5 34924.7 -1411.4  
 782 9.0 34928.8 -1421.3  
 783 6.8 34942.6 -1401.2  
 784 9.7 34951.2 -1439.2  
 785 10. 35008.8 -1444.9  
 786 8.7 35021.3 -1403.1  
 787 9.3 35022.4 -1400.7  
 788 9.4 35053.1 -1435.6  
 789 9.4 35054.3 -1403.9  
 790 10. 35056.7 -1437.8  
 791 10. 35120.4 -1413.0  
 792 9.5 35253.6 -1427.4  
 793 10. 35301.7 -1406.4  
 794 10. 35328.8 -1450.6  
 795 9.8 35329.4 -1446.6  
 796 9.8 35337.6 -1426.2  
 797 9.0 35340.3 -1403.2  
 798 9.1 35343.5 -1456.4  
 799 10. 35418.8 -1402.8  
 800 9.7 35432.6 -1428.2  
 801 9.1 35439.6 -1428.2  
 802 9.8 35444.2 -1415.8  
 803 9.1 35453.9 -1413.7  
 804 9.5 35458.0 -1422.4  
 805 9.9 35504.0 -1448.6  
 806 10. 35529.5 -1401.1  
 807 9.5 35547.4 -1453.0  
 808 9.8 35612.8 -1406.5  
 809 10. 35633.0 -1448.3  
 810 8.9 35731.9 -1414.8  
 811 9.9 35733.8 -1434.6  
 812 8.0 35736.9 -1440.0  
 813 9.0 35801.4 -1439.1  
 814 9.5 35850.6 -1419.1  
 815 10. 35857.1 -1410.4  
 816 9.3 35858.2 -1426.0  
 817 9.9 35909.7 -1449.7  
 818 8.8 35910.4 -1424.8  
 819 9.8 35917.7 -1429.7  
 820 9.1 35957.7 -1447.7  
 821 9.8 35958.6 -1427.0  
 822 9.4 40023.4 -1409.5  
 823 10. 40040.4 -1403.6  
 824 9.8 40050.1 -1456.3  
 825 9.8 40057.7 -1422.6  
 826 9.5 40145.3 -1430.9  
 827 9.9 40205.5 -1444.4  
 828 10. 40243.2 -1423.9  
 829 9.8 40308.9 -1407.0  
 830 9.3 40343.0 -1408.5  
 831 10. 40402.4 -1421.0  
 832 7.7 40415.2 -1444.8  
 833 9.1 40452.7 -1455.8  
 834 8.8 40453.6 -1447.6  
 835 10. 40508.9 -1410.7  
 836 10. 40516.7 -1414.7  
 837 8.0 40527.4 -1400.5  
 838 9.5 40539.8 -1402.9  
 839 9.8 40611.5 -1430.3  
 840 8.3 40624.6 -1441.6  
 841 9.4 40628.9 -1445.0  
 842 9.8 40647.2 -1417.3  
 843 9.5 40700.4 -1453.2  
 844 8.5 40731.7 -1415.1  
 845 9.4 40754.3 -1423.4  
 846 8.6 40802.8 -1431.3  
 847 9.1 40814.8 -1405.2  
 848 8.7 40817.7 -1446.6  
 849 9.7 40847.4 -1402.1  
 850 10. 40903.9 -1454.3  
 851 9.8 40934.3 -1447.9  
 852 9.8 40934.5 -1430.0  
 853 9.8 40936.7 -1458.0  
 854 8.4 40939.7 -1417.5  
 855 9.6 40953.5 -1409.1  
 856 9.7 41038.7 -1405.2  
 857 10. 41039.3 -1409.7  
 858 9.8 41043.8 -1411.0  
 859 10. 41044.7 -1408.5  
 860 9.7 41050.5 -1421.2  
 861 10. 41110.3 -1410.5  
 862 9.8 41125.4 -1451.6  
 863 9.5 41129.5 -1420.2  
 864 9.4 41134.0 -1443.4  
 865 9.5 41135.0 -1438.7  
 866 6.8 41135.1 -1459.7

867 9.5 41200.9 -1454.3  
 868 9.8 41206.3 -1429.7  
 869 9.2 41207.0 -1449.9  
 870 9.8 41223.6 -1431.7  
 871 9.5 41259.9 -1455.9  
 872 7.7 41313.4 -1456.4  
 873 9.4 41328.5 -1409.1  
 874 9.3 41351.2 -1435.5  
 875 8.5 41402.7 -1434.4  
 876 10. 41404.0 -1457.3  
 877 9.8 41418.6 -1435.9  
 878 9.5 41422.9 -1422.0  
 879 9.8 41424.6 -1449.9  
 880 9.5 41439.2 -1415.8  
 881 7.5 41449.4 -1437.5  
 882 9.1 41454.5 -1458.3  
 883 9.8 41455.1 -1440.0  
 884 8.5 41502.4 -1452.5  
 885 7.8 41508.3 -1413.5  
 886 9.7 41529.2 -1436.3  
 887 9.1 41529.4 -1413.4  
 888 9.8 41529.5 -1456.1  
 889 9.3 41542.9 -1415.9  
 890 9.5 41608.2 -1443.8  
 891 9.9 41700.3 -1407.0  
 892 8.4 41703.7 -1421.3  
 893 8.2 41710.0 -1421.3  
 894 10. 41717.1 -1424.9  
 895 9.8 41723.6 -1427.3  
 896 9.5 41742.7 -1418.9  
 897 8.9 41750.6 -1457.1  
 898 9.5 41842.3 -1426.3  
 899 9.3 41852.8 -1413.2  
 900 9.5 41853.8 -1434.1  
 901 9.0 41953.6 -1434.2  
 902 9.6 42002.5 -1410.7  
 903 8.1 42007.7 -1456.7  
 904 10. 42038.5 -1411.0  
 905 9.9 42046.8 -1458.3  
 906 10. 42119.2 -1451.0  
 907 8.9 42137.3 -1418.0  
 908 10. 42157.4 -1441.8  
 909 9.1 42216.1 -1412.8  
 910 9.4 42222.4 -1446.1  
 911 9.5 42230.9 -1459.3  
 912 9.1 42241.3 -1437.1  
 913 8.2 42241.8 -1422.5  
 914 9.2 42242.3 -1446.7  
 915 9.2 42300.6 -1408.8  
 916 8.7 42308.4 -1422.2  
 917 9.7 42330.2 -1415.0  
 918 9.3 42338.1 -1408.5  
 919 9.5 42408.7 -1440.6  
 920 9.2 42453.2 -1404.2  
 921 9.8 42459.1 -1424.7  
 922 9.1 42533.8 -1444.8  
 923 9.0 42607.2 -1407.9  
 924 9.8 42622.1 -1400.2  
 925 9.3 42711.0 -1404.8  
 926 9.8 42903.2 -1455.0  
 927 9.1 42912.6 -1404.5  
 928 9.8 42951.9 -1417.7  
 929 8.7 42955.4 -1457.0  
 930 9.3 43001.9 -1443.3  
 931 8.3 43027.8 -1424.7  
 932 9.6 43116.6 -1447.8  
 933 4.0 43132.3 -1435.5  
 934 9.5 43142.5 -1423.2  
 935 9.3 43229.5 -1440.5  
 936 6.5 43239.2 -1438.5  
 937 8.4 43258.2 -1452.9  
 938 9.3 43310.9 -1428.7  
 939 9.3 43349.7 -1436.2  
 940 9.5 43358.9 -1426.2  
 941 9.6 43425.2 -1446.9  
 942 8.5 43435.3 -1413.1  
 943 7.7 43456.9 -1458.2  
 944 9.6 43515.7 -1444.9  
 945 9.6 43519.0 -1455.1  
 946 9.5 43545.5 -1452.6  
 947 9.8 43614.3 -1407.3  
 948 9.8 43624.4 -1403.0  
 949 9.5 43632.1 -1421.2  
 950 9.3 43700.3 -1430.1  
 951 8.3 43718.0 -1443.5  
 952 9.1 43749.4 -1407.8  
 953 9.4 43817.1 -1417.8  
 954 9.5 43820.0 -1415.5  
 955 9.5 43825.6 -1419.3  
 956 9.2 43832.5 -1418.2



957 9.3 43843.9 -1410.6  
 958 8.7 43910.5 -1444.3  
 959 10. 43935.2 -1425.7  
 960 10. 43953.4 -1409.9  
 961 9.9 44027.7 -1435.1  
 962 9.8 44043.9 -1436.7  
 963 9.4 44103.8 -1402.2  
 964 9.8 44211.0 -1421.4  
 965 9.8 44211.5 -1449.8  
 966 9.8 44224.3 -1408.9

967 9.7 44233.6 -1454.1  
 968 10. 44250.3 -1426.1  
 969 9.8 44256.4 -1427.6  
 970 6.5 44302.9 -1400.9  
 971 9.4 44317.5 -1405.0  
 972 10. 44324.7 -1421.5  
 973 9.2 44330.2 -1403.9  
 974 9.6 44341.8 -1402.7  
 975 9.3 44352.9 -1447.4  
 976 9.5 44422.9 -1416.8

977 9.5 44423.1 -1450.9  
 978 9.6 44429.1 -1420.9  
 979 9.6 44431.7 -1457.0  
 980 9.5 44453.4 -1429.6  
 981 7.8 44458.9 -1450.1  
 982 10. 44553.0 -1422.5  
 983 10. 44601.6 -1449.6  
 984 10. 44642.2 -1402.7  
 985 9.1 44651.4 -1429.3  
 986 9.8 44702.6 -1449.8

987 9.4 44722.5 -1404.7  
 988 8.5 44724.8 -1442.3  
 989 9.1 44731.7 -1421.2  
 990 8.5 44732.8 -1435.0  
 991 10. 44811.4 -1439.3  
 992 9.1 44813.3 -1422.2  
 993 9.2 44833.8 -1443.2  
 994 8.3 44842.8 -1458.4  
 995 9.8 44903.0 -1440.6  
 996 9.0 44911.2 -1415.8

997 9.4 44934.2 -1444.1  
 998 9.8 44948.7 -1450.6  
 999 9.5 44953.9 -1441.0  
 1000 9.4 45026.1 -1410.9  
 1001 9.3 45041.4 -1419.7  
 1002 8.8 45058.8 -1439.9  
 1003 6.3 45106.5 -1427.4  
 1004 8.8 45133.5 -1427.6  
 1005 8.7 45136.6 -1440.6  
 1006 9.9 45149.6 -1445.9

1007 9.8 45233.4 -1418.4  
 1008 9.1 45234.3 -1422.9  
 1009 9.4 45243.8 -1456.0  
 1010 9.8 45255.9 -1406.8  
 1011 9.1 45256.6 -1443.6  
 1012 10. 45336.9 -1420.8  
 1013 9.4 45339.8 -1458.2  
 1014 9.4 45415.3 -1457.4  
 1015 9.8 45418.2 -1439.6  
 1016 8.6 45448.4 -1421.7

1017 9.4 45459.6 -1407.6  
 1018 10. 45531.3 -1405.8  
 1019 8.8 45534.4 -1415.7  
 1020 10. 45546.8 -1413.4  
 1021 9.3 45549.1 -1430.6  
 1022 9.1 45619.0 -1441.0  
 1023 9.1 45623.7 -1434.1  
 1024 9.8 45702.9 -1404.3  
 1025 8.5 45706.8 -1450.4  
 1026 9.5 45712.4 -1418.0

1027 6.5 45713.7 -1434.8  
 1028 9.0 45718.8 -1444.5  
 1029 7.0 45719.8 -1445.8  
 1030 8.8 45728.2 -1402.2  
 1031 9.2 45730.1 -1419.7  
 1032 9.3 45741.4 -1417.0  
 1033 9.0 45812.4 -1419.1  
 1034 9.1 45813.8 -1442.5  
 1035 9.0 45819.0 -1425.3  
 1036 10. 45830.4 -1417.8

1037 10. 45905.7 -1422.8  
 1038 10. 45910.2 -1416.2  
 1039 8.5 45911.9 -1459.0  
 1040 8.0 45915.8 -1406.9  
 1041 9.8 45926.9 -1454.0  
 1042 9.7 45931.7 -1447.7  
 1043 9.8 45934.9 -1407.1  
 1044 10. 45943.9 -1413.7  
 1045 7.1 45946.0 -1453.8  
 1046 8.8 50006.6 -1438.7

1047 9.7 50013.7 -1420.4  
 1048 10. 50026.8 -1424.9  
 1049 10. 50030.8 -1425.8  
 1050 9.3 50048.7 -1445.0  
 1051 7.5 50057.6 -1410.5  
 1052 9.2 50137.8 -1427.1  
 1053 10. 50205.5 -1400.6  
 1054 9.3 50222.1 -1405.5  
 1055 8.3 50232.4 -1455.2  
 1056 9.7 50254.8 -1423.0

1057 10. 50301.7 -1441.4  
 1058 9.5 50307.8 -1422.0  
 1059 9.8 50316.7 -1441.7  
 1060 9.9 50318.4 -1402.1  
 1061 9.5 50344.9 -1431.3  
 1062 9.3 50400.9 -1431.8  
 1063 9.5 50403.8 -1425.6  
 1064 9.1 50405.7 -1403.4  
 1065 10. 50441.7 -1419.7  
 1066 9.5 50458.6 -1406.3

1067 8.8 50521.7 -1415.7  
 1068 9.2 50530.9 -1433.5  
 1069 9.9 50547.2 -1420.2  
 1070 8.9 50616.8 -1444.4  
 1071 9.0 50641.9 -1436.2  
 1072 9.3 50653.3 -1447.4  
 1073 9.0 50655.9 -1448.3  
 1074 6.0 50724.3 -1446.5  
 1075 9.5 50746.8 -1429.9  
 1076 8.5 50756.3 -1405.6

1077 10. 50825.6 -1407.5  
 1078 9.5 50826.8 -1425.4  
 1079 9.7 50901.8 -1425.4  
 1080 7.8 50924.2 -1440.1  
 1081 9.3 50942.6 -1406.2  
 1082 9.5 50950.9 -1432.6  
 1083 9.0 50952.7 -1420.5  
 1084 9.1 50953.5 -1401.8  
 1085 10. 51021.3 -1409.1  
 1086 9.5 51023.3 -1451.7

1087 10. 51034.2 -1403.4  
 1088 9.8 51036.2 -1407.2  
 1089 10. 51038.4 -1410.5  
 1090 10. 51106.4 -1453.3  
 1091 9.5 51121.9 -1432.5  
 1092 10. 51149.3 -1400.7  
 1093 8.9 51203.2 -1410.3  
 1094 8.3 51251.2 -1455.4  
 1095 9.1 51303.1 -1404.8  
 1096 9.2 51329.7 -1407.8

1097 10. 51337.9 -1459.2  
 1098 9.3 51253.1 -1445.4  
 1099 9.0 51355.3 -1444.0  
 1100 9.2 51416.3 -1414.5  
 1101 9.4 51421.5 -1448.5  
 1102 8.6 51422.1 -1446.6  
 1103 8.0 51435.8 -1417.6  
 1104 9.0 51444.4 -1427.5  
 1105 7.8 51444.9 -1442.2  
 1106 9.3 51448.9 -1421.7

1107 8.6 51515.5 -1401.2  
 1108 9.6 51516.9 -1446.4  
 1109 9.1 51523.1 -1442.5  
 1110 9.3 51522.5 -1411.8  
 1111 9.8 51543.4 -1450.2  
 1112 9.5 51543.8 -1412.7  
 1113 9.4 51545.0 -1422.3  
 1114 10. 51608.0 -1420.7  
 1115 9.4 51610.1 -1403.2  
 1116 9.5 51633.8 -1414.8

1117 8.2 51644.1 -1458.5  
 1118 9.5 51649.6 -1401.9  
 1119 5.8 51652.2 -1403.7  
 1120 9.8 51654.9 -1449.3  
 1121 9.4 51732.6 -1401.0  
 1122 10. 51746.0 -1434.5  
 1123 9.8 51820.4 -1442.8  
 1124 8.5 51826.0 -1424.7  
 1125 9.4 51828.5 -1459.3  
 1126 8.0 51853.8 -1415.6

1127 9.8 51856.0 -1444.6  
 1128 9.0 51901.0 -1433.9  
 1129 9.3 51905.0 -1436.6  
 1130 7.5 51907.7 -1409.4  
 1131 9.0 51916.9 -1440.8  
 1132 8.5 51944.2 -1403.6  
 1133 8.0 51948.7 -1410.7  
 1134 8.7 52019.9 -1425.0  
 1135 9.5 52037.0 -1427.0  
 1136 8.8 52041.4 -1449.1

1137 9.5 52049.4 -1424.1  
 1138 10. 52101.6 -1458.2  
 1139 10. 52106.7 -1408.9  
 1140 10. 52112.9 -1409.3  
 1141 9.0 52122.0 -1453.8  
 1142 10. 52133.3 -1458.5  
 1143 9.5 52140.0 -1435.2  
 1144 9.5 52150.7 -1411.1  
 1145 9.5 52215.2 -1450.2  
 1146 9.0 52231.8 -1416.1

1147 10. 52237.0 -1434.3  
 1148 9.8 52239.3 -1449.0  
 1149 9.4 52250.8 -1448.6  
 1150 9.8 52257.7 -1458.1  
 1151 10. 52258.5 -1431.0  
 1152 10. 52333.9 -1426.1  
 1153 10. 52339.4 -1410.8  
 1154 9.4 52343.7 -1406.1  
 1155 9.3 52400.9 -1428.4  
 1156 9.2 52406.2 -1407.8

1157 10. 52422.6 -1400.3  
 1158 9.5 52448.0 -1430.2  
 1159 10. 52510.8 -1415.5  
 1160 9.0 52514.0 -1429.8  
 1161 9.8 52528.5 -1453.7  
 1162 10. 52538.3 -1459.7  
 1163 9.5 52600.7 -1407.1  
 1164 9.5 52610.9 -1422.1  
 1165 9.9 52612.5 -1455.0  
 1166 10. 52620.7 -1403.4

1167 9.4 52630.0 -1446.8  
 1168 9.8 52700.2 -1402.3  
 1169 10. 52712.1 -1441.5  
 1170 8.7 52719.8 -1454.5  
 1171 9.3 52727.9 -1427.8  
 1172 10. 52742.7 -1401.9  
 1173 10. 52756.6 -1459.6  
 1174 9.7 52758.7 -1411.3  
 1175 10. 52810.9 -1427.8  
 1176 10. 52841.7 -1405.1

1177 8.9 52842.5 -1448.0  
 1178 9.5 52843.7 -1446.4  
 1179 9.5 52958.8 -1417.2  
 1180 9.2 52971.0 -1429.1  
 1181 9.7 52978.6 -1447.3  
 1182 9.5 52994.1 -1443.9  
 1183 9.5 53000.7 -1404.1  
 1184 10. 53009.1 -1441.7  
 1185 9.7 53029.0 -1441.0  
 1186 9.2 53043.8 -1458.2

1187 8.6 53049.7 -1455.7  
 1188 9.3 53113.8 -1417.5  
 1189 9.5 53116.8 -1417.9  
 1190 8.5 53130.3 -1450.7  
 1191 8.0 53140.9 -1425.9  
 1192 9.5 53147.1 -1436.2  
 1193 10. 53156.1 -1432.2  
 1194 10. 53157.3 -1452.0  
 1195 9.0 53204.9 -1417.4  
 1196 9.8 53212.9 -1458.1

1197 10. 53216.9 -1414.2  
 1198 9.5 53243.7 -1401.3  
 1199 10. 53207.0 -1440.5  
 1200 10. 53306.5 -1440.5  
 1201 9.0 53323.8 -1456.6  
 1202 9.5 53337.0 -1425.4  
 1203 9.5 53339.9 -1418.7  
 1204 9.2 53345.7 -1449.0  
 1205 9.8 53346.2 -1401.5  
 1206 9.5 53405.0 -1421.9

1207 9.3 53440.0 -1420.6  
 1208 9.0 53446.0 -1427.6  
 1209 9.3 53449.8 -1452.8  
 1210 9.0 53512.8 -1407.0  
 1211 9.0 53538.9 -1415.5  
 1212 9.5 53550.4 -1444.5  
 1213 10. 53559.1 -1431.1  
 1214 9.5 53601.3 -1453.5  
 1215 9.1 53616.9 -1458.8  
 1216 9.2 53620.8 -1447.7

1217 9.2 53629.1 -1445.6  
 1218 9.5 53629.5 -1424.5  
 1219 10. 53630.0 -1454.1  
 1220 9.6 53645.7 -1400.9  
 1221 8.8 53711.2 -1444.2  
 1222 9.5 53712.0 -1428.3  
 1223 9.5 53729.1 -1432.0  
 1224 8.0 53731.1 -1434.7  
 1225 9.3 53733.4 -1458.9  
 1226 9.8 53800.1 -1441.4

1227 10. 53845.8 -1403.8  
 1228 8.7 53906.8 -1450.2  
 1229 9.4 53943.2 -1446.7  
 1230 9.5 53952.2 -1438.5  
 1231 9.4 54001.0 -1428.7  
 1232 4.0 54022.3 -1452.7  
 1233 8.5 54028.1 -1431.9  
 1234 9.5 54043.4 -1456.7  
 1235 9.3 54048.0 -1423.9  
 1236 9.2 54054.2 -1445.3

1237 9.3 54055.7 -1457.1  
 1238 9.3 54100.2 -1444.8  
 1239 9.5 54103.9 -1455.3  
 1240 9.3 54105.5 -1428.7  
 1241 9.5 54120.8 -1408.2  
 1242 9.3 54124.2 -1438.6  
 1243 7.0 54205.0 -1421.5  
 1244 9.8 54209.2 -1444.3  
 1245 9.2 54210.8 -1402.3  
 1246 10. 54223.8 -1409.0

1247 9.5 54231.8 -1409.4  
 1248 9.4 54234.7 -1446.2  
 1249 9.5 54237.8 -1409.9  
 1250 10. 54255.8 -1409.5  
 1251 5.5 54301.1 -1431.4  
 1252 9.2 54322.2 -1439.1  
 1253 9.4 54325.7 -1446.3  
 1254 10. 54343.1 -1432.6  
 1255 9.2 54349.2 -1440.4  
 1256 9.3 54402.1 -1432.7

1257 9.0 54406.9 -1413.9  
 1258 9.5 54423.1 -1441.0  
 1259 9.0 54431.8 -1408.5  
 1260 9.7 54444.1 -1437.9  
 1261 8.9 54453.2 -1440.0  
 1262 8.9 54506.5 -1457.7  
 1263 9.3 54512.1 -1431.7  
 1264 9.5 54536.9 -1411.2  
 1265 9.8 54539.4 -1455.0  
 1266 8.5 54542.3 -1449.8

1267 8.0 54557.1 -1436.2  
 1268 9.8 54606.7 -1401.2  
 1269 9.4 54607.3 -1404.5  
 1270 9.8 54636.0 -1459.3  
 1271 9.5 54645.9 -1412.5  
 1272 7.5 54722.3 -1409.4  
 1273 9.7 54731.1 -1457.6  
 1274 9.3 54732.5 -1412.1  
 1275 9.6 54807.5 -1405.4  
 1276 10. 54830.3 -1444.7

1277 9.1 54832.9 -1400.7  
 1278 9.8 54841.2 -1446.3  
 1279 10. 54847.0 -1429.8  
 1280 9.5 54931.0 -1426.2  
 1281 10. 54931.0 -1403.4  
 1282 10. 54931.9 -1419.0  
 1283 9.6 54932.3 -1457.0  
 1284 9.9 54941.5 -1406.0  
 1285 10. 54947.6 -1440.1  
 1286 4.0 54947.7 -1412.0

1287 9.3 54950.2 -1438.8  
 1288 9.6 54956.4 -1454.4  
 1289 10. 55023.0 -1427.7  
 1290 9.6 55031.4 -1456.4  
 1291 9.6 55036.9 -1400.7  
 1292 8.0 55110.7 -1413.3  
 1293 9.8 55116.0 -1402.7  
 1294 10. 55117.7 -1404.8  
 1295 10. 55159.9 -1419.5  
 1296 10. 55200.9 -1418.2

1297 8.5 55214.8 -1412.8  
 1298 10. 55241.0 -1420.4  
 1299 9.5 55259.1 -1434.2  
 1300 8.5 55307.2 -1443.1  
 1301 9.5 55334.1 -1430.8  
 1302 8.6 55338.7 -1411.3  
 1303 9.5 55340.9 -1450.5  
 1304 9.0 55345.2 -1401.7  
 1305 9.4 55417.1 -1434.2  
 1306 9.5 55424.1 -1433.2

1307 9.0 55429.5 -1431.4  
 1308 9.3 55431.4 -1417.8  
 1309 10. 55453.0 -1421.6  
 1310 9.1 55515.2 -1406.2  
 1311 10. 55520.8 -1413.5  
 1312 10. 55533.7 -1445.0  
 1313 10. 55550.1 -1435.4  
 1314 9.2 55557.8 -1447.9  
 1315 7.0 55558.7 -1430.0  
 1316 9.7 55626.8 -1440.1



-14 1317 5h56m

1317 10. 55629.0 -1425.2  
1318 9.4 55649.3 -1445.2  
1319 9.4 55702.9 -1452.8  
1320 9.7 55712.8 -1446.7  
1321 9.7 55726.4 -1449.3  
1322 7.8 55735.5 -1404.8  
1323 9.1 55749.9 -1449.0  
1324 8.2 55758.4 -1401.6  
1325 9.5 55816.9 -1421.9  
1326 8.5 55817.2 -1406.7

1327 9.4 55817.7 -1446.8  
1328 8.7 55833.8 -1417.9  
1329 10. 55857.8 -1415.2  
1330 9.4 55904.4 -1400.0  
1331 5.0 55935.0 -1455.2  
1332 10. 55955.8 -1413.8  
1333 9.8 60033.2 -1400.0  
1334 9.5 60043.0 -1428.2  
1335 9.5 60048.3 -1450.8  
1336 9.4 60051.0 -1400.1

1337 9.6 60056.1 -1405.3  
1338 9.9 60056.7 -1419.2  
1339 10. 60104.6 -1422.8  
1340 9.8 60111.9 -1410.3  
1341 3.5 60117.8 -1414.3  
1342 1.1 60128.2 -1439.3  
1343 10. 60147.7 -1431.2  
1344 5.8 60212.5 -1457.1  
1345 10. 60219.1 -1436.2  
1346 9.0 60230.3 -1448.4

1347 8.2 60233.5 -1402.6  
1348 7.0 60259.1 -1433.5  
1349 10. 60305.4 -1404.1  
1350 9.5 60319.1 -1431.3  
1351 10. 60322.8 -1414.8  
1352 9.4 60328.5 -1459.6  
1353 9.3 60338.1 -1431.7  
1354 9.8 60353.3 -1448.4  
1355 10. 60355.0 -1419.6  
1356 9.8 60404.2 -1441.0

1357 9.6 60410.3 -1446.7  
1358 9.8 60418.1 -1405.2  
1359 8.2 60516.5 -1425.3  
1360 9.3 60520.2 -1439.0  
1361 9.3 60539.8 -1437.4  
1362 9.8 60540.2 -1412.4  
1363 9.3 60603.9 -1432.1  
1364 9.6 60611.0 -1454.9  
1365 9.8 60614.6 -1411.0  
1366 9.3 60651.8 -1428.4

1367 9.1 60656.2 -1400.2  
1368 9.3 60709.5 -1454.2  
1369 9.8 60729.8 -1429.2  
1370 9.6 60742.1 -1408.0  
1371 9.8 60759.4 -1444.1  
1372 9.5 60805.0 -1454.6  
1373 9.8 60831.2 -1436.0  
1374 10. 60832.1 -1409.1  
1375 9.5 60847.0 -1459.9  
1376 9.7 60854.5 -1454.0

1377 9.8 60901.4 -1421.2  
1378 9.5 60903.6 -1459.1  
1379 9.0 60919.9 -1423.1  
1380 9.7 60922.7 -1401.4  
1381 10. 60931.6 -1436.3  
1382 9.5 60931.8 -1400.7  
1383 10. 60942.6 -1416.7  
1384 9.8 60949.5 -1417.4  
1385 9.7 60952.6 -1459.4  
1386 9.5 61009.6 -1418.6

1387 9.2 61040.0 -1427.0  
1388 9.6 61040.8 -1457.1  
1389 9.5 61044.9 -1406.5  
1390 9.5 61103.1 -1435.0  
1391 9.3 61124.2 -1439.4  
1392 9.8 61124.2 -1439.5  
1393 9.0 61124.7 -1409.9  
1394 10. 61125.9 -1409.7  
1395 9.0 61137.2 -1416.4  
1396 8.2 61155.1 -1432.6

1397 8.6 61158.7 -1418.3  
1398 9.0 61208.0 -1452.3  
1399 8.3 61213.4 -1447.2  
1400 6.5 61215.5 -1458.3  
1401 9.8 61246.1 -1407.5  
1402 9.1 61252.2 -1416.6  
1403 8.9 61255.6 -1436.5  
1404 9.4 61304.9 -1453.5  
1405 9.8 61306.5 -1441.0  
1406 9.8 61323.1 -1412.0

1407 9.8 61325.0 -1402.6  
1408 9.6 61333.8 -1441.6  
1409 8.5 61351.1 -1408.0  
1410 9.3 61425.7 -1401.2  
1411 10. 61435.5 -1403.3  
1412 8.2 61438.7 -1414.5  
1413 9.2 61442.3 -1455.3  
1414 9.1 61501.7 -1437.6  
1415 8.7 61503.4 -1420.3  
1416 9.3 61522.3 -1404.4

1417 10. 61526.1 -1456.6  
1418 8.8 61532.0 -1431.6  
1419 9.8 61541.4 -1401.8  
1420 9.2 61546.3 -1444.1  
1421 9.9 61612.9 -1427.1  
1422 9.0 61627.8 -1450.0  
1423 7.4 61644.0 -1445.7  
1424 8.5 61647.1 -1404.9  
1425 9.2 61647.7 -1406.4  
1426 9.5 61705.5 -1404.4

1427 10. 61712.2 -1435.5  
1428 6.5 61712.5 -1459.5  
1429 9.1 61727.9 -1424.9  
1430 8.3 61749.3 -1445.4  
1431 9.5 61803.3 -1409.3  
1432 8.2 61826.0 -1425.5  
1433 9.1 61829.0 -1400.3  
1434 9.6 61831.5 -1427.5  
1435 10. 61831.9 -1424.6  
1436 9.0 61836.4 -1420.1

1437 9.3 61836.8 -1443.5  
1438 9.8 61844.8 -1447.8  
1439 9.6 61845.2 -1401.6  
1440 8.5 61858.4 -1402.7  
1441 10. 61932.3 -1422.2  
1442 9.1 61937.9 -1424.6  
1443 9.5 61939.2 -1400.7  
1444 9.3 61942.7 -1425.7  
1445 9.3 61948.3 -1418.5  
1446 9.0 61950.5 -1404.8

1447 9.6 61950.6 -1436.3  
1448 9.4 61952.1 -1457.4  
1449 10. 61954.4 -1409.1  
1450 7.0 62007.1 -1431.2  
1451 10. 62024.0 -1447.9  
1452 9.2 62026.8 -1406.5  
1453 8.9 62028.2 -1435.9  
1454 9.5 62043.9 -1443.2  
1455 9.8 62045.7 -1415.5  
1456 9.3 62051.5 -1405.8

1457 9.3 62116.6 -1429.1  
1458 10. 62124.3 -1437.1  
1459 9.2 62149.1 -1457.7  
1460 9.8 62200.8 -1419.1  
1461 9.1 62202.8 -1445.5  
1462 9.3 62203.0 -1402.1  
1463 9.4 62215.4 -1402.0  
1464 9.8 62218.2 -1409.9  
1465 9.7 62224.8 -1430.0  
1466 9.2 62238.7 -1416.4

1467 8.5 62239.6 -1407.1  
1468 9.7 62258.4 -1422.9  
1469 10. 62305.7 -1435.4  
1470 9.4 62308.7 -1414.0  
1471 8.7 62310.7 -1416.0  
1472 9.8 62321.3 -1455.7  
1473 9.3 62331.8 -1419.7  
1474 9.6 62348.7 -1448.3  
1475 9.8 62349.5 -1440.2  
1476 7.5 62354.9 -1451.7

1477 9.8 62401.4 -1419.9  
1478 9.4 62415.1 -1436.4  
1479 8.6 62422.2 -1456.1  
1480 8.5 62423.0 -1438.9  
1481 9.0 62423.9 -1423.7  
1482 9.3 62425.6 -1408.3  
1483 9.7 62439.8 -1448.6  
1484 9.4 62518.2 -1436.4  
1485 9.1 62523.7 -1414.5  
1486 9.0 62532.2 -1402.6

1487 8.8 62539.4 -1425.3  
1488 9.5 62550.5 -1427.0  
1489 8.8 62551.2 -1444.6  
1490 8.2 62642.5 -1442.2  
1491 9.8 62657.9 -1455.3  
1492 9.8 62708.4 -1400.0  
1493 8.9 62709.8 -1404.0  
1494 8.8 62723.5 -1440.8  
1495 9.6 62746.1 -1429.4  
1496 9.7 62803.5 -1448.0

1497 9.6 62811.4 -1458.5  
1498 9.6 62813.0 -1429.8  
1499 9.3 62850.4 -1426.9  
1500 9.8 62851.1 -1404.4  
1501 9.1 62917.1 -1433.1  
1502 9.4 62927.2 -1413.1  
1503 9.8 62931.7 -1436.9  
1504 9.8 62931.9 -1401.5  
1505 9.3 62941.5 -1414.0  
1506 9.8 62957.4 -1427.6

1507 9.6 63012.2 -1443.6  
1508 9.6 63020.1 -1410.9  
1509 9.1 63026.1 -1432.9  
1510 9.1 63032.0 -1425.5  
1511 8.9 63032.6 -1408.8  
1512 8.8 63052.2 -1450.8  
1513 9.8 63053.7 -1426.4  
1514 10. 63114.4 -1426.2  
1515 8.2 63115.8 -1419.9  
1516 9.3 63123.0 -1408.7

1517 10. 63135.7 -1446.8  
1518 9.7 63138.0 -1432.1  
1519 10. 63145.9 -1426.3  
1520 9.8 63148.6 -1407.2  
1521 9.8 63202.2 -1443.4  
1522 10. 63207.9 -1427.5  
1523 8.8 63218.5 -1442.9  
1524 8.3 63228.5 -1425.6  
1525 5.5 63239.4 -1401.0  
1526 9.3 63240.3 -1449.2

1527 8.8 63253.9 -1432.5  
1528 9.2 63255.4 -1451.0  
1529 8.5 63304.3 -1419.7  
1530 10. 63319.2 -1414.5  
1531 9.1 63319.9 -1445.2  
1532 8.8 63321.7 -1436.8  
1533 10. 63345.4 -1433.9  
1534 10. 63353.0 -1429.9  
1535 9.3 63417.9 -1424.8  
1536 9.8 63420.3 -1447.4

1537 9.2 63423.7 -1448.9  
1538 9.6 63429.5 -1438.1  
1539 10. 63432.1 -1425.1  
1540 9.8 63433.5 -1408.8  
1541 9.4 63507.1 -1433.8  
1542 8.5 63512.3 -1420.1  
1543 9.9 63514.1 -1402.4  
1544 10. 63518.9 -1451.1  
1545 10. 63524.8 -1406.0  
1546 9.8 63525.0 -1417.2

1547 10. 63536.5 -1428.0  
1548 9.3 63537.7 -1450.6  
1549 9.6 63541.4 -1450.3  
1550 9.8 63601.3 -1418.9  
1551 9.6 63607.1 -1428.0  
1552 9.5 63613.2 -1449.9  
1553 9.5 63621.0 -1427.9  
1554 9.5 63636.1 -1405.0  
1555 10. 63656.2 -1446.4  
1556 9.4 63658.1 -1402.0

1557 9.3 63704.9 -1403.9  
1558 9.3 63714.7 -1436.2  
1559 9.9 63720.9 -1459.4  
1560 8.7 63721.6 -1433.0  
1561 9.8 63722.8 -1423.3  
1562 9.4 63732.5 -1406.9  
1563 8.7 63803.1 -1434.9  
1564 9.4 63815.6 -1445.9  
1565 9.7 63821.9 -1450.2  
1566 10. 63829.4 -1413.8

1567 9.5 63838.8 -1447.8  
1568 9.2 63845.4 -1422.0  
1569 8.8 63856.9 -1448.4  
1570 9.5 63902.0 -1405.5  
1571 9.3 63913.4 -1418.9  
1572 8.7 63916.8 -1420.4  
1573 6.2 63923.8 -1438.4  
1574 9.0 63925.0 -1433.1  
1575 9.0 63930.6 -1409.1  
1576 10. 63934.2 -1453.0

1577 9.2 63943.2 -1446.3  
1578 9.6 63946.1 -1448.4  
1579 7.8 63956.9 -1422.5  
1580 9.6 64000.1 -1448.8  
1581 10. 64003.0 -1403.1  
1582 9.7 64006.0 -1455.3  
1583 9.5 64011.1 -1441.7  
1584 6.2 64014.7 -1416.2  
1585 9.8 64016.6 -1450.1  
1586 9.5 64018.1 -1411.1

1587 9.1 64024.1 -1456.7  
1588 9.7 64035.2 -1414.2  
1589 9.4 64046.3 -1408.8  
1590 10. 64049.0 -1402.3  
1591 9.5 64116.7 -1427.3  
1592 9.4 64132.0 -1450.9  
1593 9.4 64157.2 -1414.8  
1594 9.4 64209.2 -1407.3  
1595 9.1 64210.3 -1412.3  
1596 9.4 64213.2 -1454.3

1597 8.0 64214.7 -1414.1  
1598 9.4 64222.0 -1430.9  
1599 5.5 64223.5 -1459.2  
1600 9.3 64245.8 -1447.0  
1601 8.0 64305.9 -1453.0  
1602 10. 64306.4 -1435.2  
1603 9.7 64326.2 -1432.3  
1604 9.4 64327.5 -1430.7  
1605 8.5 64328.7 -1416.6  
1606 9.5 64341.4 -1406.0

1607 9.5 64358.1 -1445.0  
1608 9.7 64402.1 -1414.7  
1609 9.4 64403.2 -1403.6  
1610 8.5 64411.0 -1434.6  
1611 9.4 64411.2 -1413.3  
1612 9.7 64414.8 -1419.3  
1613 9.3 64415.9 -1416.9  
1614 8.2 64417.3 -1405.6  
1615 9.8 64436.1 -1443.4  
1616 9.4 64439.1 -1449.2

1617 9.8 64517.6 -1437.5  
1618 9.6 64525.8 -1446.2  
1619 9.5 64534.5 -1422.5  
1620 10. 64546.0 -1441.6  
1621 9.8 64553.3 -1426.5  
1622 9.7 64553.9 -1403.5  
1623 9.8 64613.8 -1445.0  
1624 9.8 64621.1 -1444.5  
1625 9.8 64623.3 -1437.2  
1626 9.6 64623.3 -1431.2

1627 8.8 64654.4 -1425.6  
1628 9.8 64720.0 -1421.9  
1629 9.8 64720.3 -1444.0  
1630 9.8 64721.1 -1442.6  
1631 9.3 64733.9 -1458.0  
1632 9.2 64737.8 -1456.9  
1633 8.8 64742.7 -1403.9  
1634 9.4 64748.8 -1457.2  
1635 8.0 64749.7 -1416.4  
1636 9.9 64800.3 -1433.8

1637 7.5 64817.7 -1441.1  
1638 9.8 64826.5 -1405.3  
1639 10. 64841.6 -1447.5  
1640 9.2 64845.2 -1418.8  
1641 9.8 64849.7 -1414.8  
1642 9.8 64801.6 -1410.4  
1643 9.3 64805.1 -1437.4  
1644 9.5 64810.7 -1417.2  
1645 9.5 64815.0 -1401.3  
1646 9.8 64826.3 -1455.6

1647 9.3 64820.8 -1422.5  
1648 9.0 64839.1 -1454.0  
1649 9.9 64841.1 -1439.2  
1650 10. 64841.2 -1413.8  
1651 9.0 64855.6 -1412.0  
1652 10. 65002.2 -1420.5  
1653 10. 65010.0 -1401.1  
1654 9.2 65016.1 -1413.6  
1655 9.8 65020.1 -1444.6  
1656 9.2 65025.1 -1413.8

1657 10. 65027.6 -1433.3  
1658 9.2 65033.9 -1426.9  
1659 9.0 65037.2 -1432.0  
1660 9.8 65046.7 -1419.9  
1661 9.0 65102.4 -1406.5  
1662 8.9 65114.1 -1445.3  
1663 9.1 65123.4 -1445.3  
1664 8.8 65125.0 -1437.7  
1665 9.1 65120.2 -1418.2  
1666 9.5 65131.2 -1449.2

1667 9.9 65137.8 -1425.6  
1668 9.4 65147.9 -1431.6  
1669 8.2 65226.8 -1445.9  
1670 8.8 65228.1 -1417.1  
1671 9.1 65232.2 -1448.9  
1672 9.4 65259.0 -1459.4  
1673 9.4 65303.1 -1436.9  
1674 9.0 65308.7 -1420.5  
1675 8.0 65316.3 -1449.3  
1676 9.8 65326.2 -1449.5

-14 1676 6h53m



-14 1677 6h53m

1677 9.2 65328.7 -1445.8  
1678 9.2 65329.5 -1445.8  
1679 9.2 65351.4 -1445.5  
1680 9.5 65357.4 -1444.2  
1681 9.8 65402.0 -1408.9  
1682 9.9 65408.2 -1405.0  
1683 9.7 65409.3 -1448.7  
1684 9.4 65427.4 -1426.8  
1685 9.2 65455.5 -1440.8  
1686 9.7 65457.3 -1424.6  
  
1687 8.9 65458.6 -1450.7  
1688 8.7 65526.6 -1451.8  
1689 8.5 65534.8 -1409.2  
1690 8.8 65541.2 -1411.0  
1691 9.8 65550.7 -1454.2  
1692 9.4 65550.8 -1408.5  
1693 9.7 65551.6 -1427.4  
1694 10. 65620.9 -1431.2  
1695 9.8 65626.5 -1454.0  
1696 9.8 65631.1 -1452.0  
  
1697 9.6 65638.4 -1429.9  
1698 9.8 65641.7 -1419.8  
1699 9.8 65700.0 -1448.5  
1700 9.8 65715.6 -1439.2  
1701 9.8 65717.5 -1437.9  
1702 9.8 65748.7 -1421.1  
1703 9.4 65804.8 -1446.8  
1704 8.8 65806.3 -1421.4  
1705 9.2 65830.9 -1412.3  
1706 9.8 65832.5 -1434.4  
  
1707 9.7 65833.1 -1436.4  
1708 9.8 65837.4 -1407.5  
1709 9.8 65847.1 -1401.7  
1710 8.2 65856.6 -1439.5  
1711 9.0 65918.8 -1447.3  
1712 9.7 65919.9 -1444.3  
1713 10. 65941.6 -1419.6  
1714 9.2 65943.2 -1445.6  
1715 9.3 65952.6 -1430.1  
1716 9.0 65953.7 -1459.4  
  
1717 8.9 70016.9 -1428.6  
1718 9.5 70024.0 -1446.4  
1719 9.5 70025.4 -1453.0  
1720 9.8 70039.5 -1456.8  
1721 9.2 70040.6 -1417.7  
1722 9.6 70041.0 -1408.2  
1723 9.5 70048.3 -1401.8  
1724 10. 70055.7 -1417.6  
1725 9.5 70138.0 -1410.4  
1726 9.3 70138.3 -1435.5  
  
1727 9.8 70142.8 -1403.5  
1728 9.6 70143.8 -1441.1  
1729 8.9 70148.0 -1440.1  
1730 10. 70149.3 -1428.6  
1731 9.3 70156.0 -1441.2  
1732 8.6 70222.7 -1443.8  
1733 9.8 70228.8 -1423.1  
1734 8.7 70230.2 -1412.0  
1735 8.8 70247.3 -1447.7  
1736 9.5 70254.6 -1445.9  
  
1737 9.5 70257.2 -1458.0  
1738 8.9 70300.7 -1433.4  
1739 9.0 70311.5 -1448.5  
1740 9.4 70312.4 -1440.2  
1741 9.0 70316.4 -1411.5  
1742 9.4 70331.8 -1437.8  
1743 8.9 70331.9 -1416.6  
1744 8.3 70344.4 -1431.8  
1745 9.7 70345.3 -1402.2  
1746 10. 70352.6 -1420.0  
  
1747 9.8 70359.4 -1434.8  
1748 9.5 70403.0 -1447.6  
1749 9.1 70413.0 -1414.2  
1750 9.6 70415.0 -1412.6  
1751 9.5 70416.3 -1407.5  
1752 9.1 70417.7 -1459.3  
1753 10. 70417.9 -1435.7  
1754 9.8 70430.5 -1402.7  
1755 9.6 70433.0 -1408.2  
1756 9.8 70436.6 -1408.9  
  
1757 9.4 70439.7 -1442.5  
1758 9.5 70447.8 -1406.0  
1759 9.0 70449.7 -1400.0  
1760 8.3 70459.2 -1446.7  
1761 9.0 70508.9 -1407.5  
1762 10. 70529.5 -1441.2  
1763 8.9 70530.4 -1433.8  
1764 9.9 70533.2 -1443.8  
1765 10. 70540.1 -1456.0  
1766 10. 70551.5 -1400.9

1767 9.7 70552.3 -1400.1  
1768 8.2 70554.0 -1414.9  
1769 10. 70600.4 -1444.7  
1770 9.7 70610.0 -1446.2  
1771 9.8 70611.6 -1457.6  
1772 9.4 70619.8 -1421.9  
1773 9.2 70620.7 -1422.1  
1774 8.5 70625.1 -1438.6  
1775 8.5 70635.0 -1451.2  
1776 8.3 70640.6 -1420.1  
  
1777 9.1 70645.4 -1456.5  
1778 9.6 70646.1 -1443.3  
1779 9.7 70648.5 -1402.9  
1780 9.4 70650.8 -1405.3  
1781 9.8 70702.0 -1438.0  
1782 9.7 70706.3 -1409.4  
1783 9.8 70711.6 -1447.9  
1784 8.8 70748.4 -1418.7  
1785 9.5 70750.0 -1444.2  
1786 9.5 70756.4 -1440.1  
  
1787 9.8 70807.9 -1409.1  
1788 9.8 70821.1 -1453.8  
1789 9.5 70827.5 -1435.2  
1790 7.2 70831.2 -1421.6  
1791 9.5 70835.7 -1407.2  
1792 9.6 70855.0 -1450.4  
1793 9.2 70857.8 -1448.6  
1794 9.5 70902.5 -1449.1  
1795 8.5 70913.7 -1414.6  
1796 9.3 70915.3 -1401.2  
  
1797 7.2 70927.5 -1415.1  
1798 9.1 70936.5 -1436.4  
1799 9.3 70938.4 -1431.2  
1800 9.8 70941.2 -1456.8  
1801 9.5 70944.3 -1441.5  
1802 9.8 70944.7 -1454.8  
1803 9.0 70954.0 -1437.3  
1804 9.5 70958.9 -1449.9  
1805 9.0 71002.0 -1450.0  
1806 9.8 71006.1 -1415.3  
  
1807 9.7 71013.4 -1401.2  
1808 9.6 71014.8 -1448.8  
1809 9.8 71025.9 -1420.4  
1810 8.2 71028.5 -1435.1  
1811 9.8 71034.1 -1420.9  
1812 10. 71049.8 -1439.9  
1813 9.1 71058.9 -1419.6  
1814 9.0 71101.9 -1403.3  
1815 9.0 71107.8 -1400.3  
1816 9.0 71108.7 -1445.5  
  
1817 9.2 71109.3 -1435.3  
1818 9.1 71110.2 -1404.3  
1819 9.3 71119.9 -1429.8  
1820 9.8 71122.9 -1432.8  
1821 10. 71149.0 -1411.7  
1822 10. 71149.5 -1429.0  
1823 10. 71159.1 -1456.0  
1824 9.0 71229.3 -1407.0  
1825 8.6 71230.9 -1418.9  
1826 9.4 71239.9 -1451.8  
  
1827 9.7 71239.9 -1444.7  
1828 9.5 71242.4 -1455.5  
1829 9.4 71242.4 -1456.6  
1830 10. 71249.4 -1409.5  
1831 9.8 71304.1 -1441.4  
1832 9.8 71307.7 -1408.8  
1833 9.2 71308.9 -1408.6  
1834 8.5 71310.3 -1459.6  
1835 9.6 71314.5 -1449.8  
1836 9.1 71320.6 -1400.6  
  
1837 9.5 71321.3 -1458.9  
1838 9.5 71323.6 -1418.5  
1839 9.4 71327.0 -1440.0  
1840 9.1 71345.5 -1436.0  
1841 9.3 71354.0 -1444.2  
1842 9.8 71359.5 -1413.4  
1843 9.0 71400.0 -1436.4  
1844 9.2 71413.4 -1445.3  
1845 10. 71417.4 -1445.5  
1846 6.2 71419.1 -1405.2  
  
1847 10. 71423.2 -1419.4  
1848 9.8 71423.4 -1438.5  
1849 9.2 71423.9 -1422.6  
1850 9.4 71426.2 -1408.4  
1851 9.8 71429.4 -1439.9  
1852 9.8 71431.7 -1423.6  
1853 8.8 71433.8 -1405.3  
1854 10. 71436.6 -1427.6  
1855 9.8 71452.6 -1445.6  
1856 9.5 71505.3 -1436.5

1857 9.8 71506.3 -1457.2  
1858 9.7 71508.3 -1400.7  
1859 9.8 71515.3 -1414.8  
1860 9.3 71519.8 -1430.2  
1861 8.6 71520.9 -1449.2  
1862 8.7 71523.2 -1432.0  
1863 9.1 71523.4 -1402.2  
1864 8.5 71524.5 -1426.8  
1865 9.4 71535.4 -1401.0  
1866 9.5 71541.6 -1420.8  
  
1867 9.8 71550.2 -1454.6  
1868 9.8 71550.9 -1432.1  
1869 9.7 71600.6 -1449.9  
1870 9.7 71611.8 -1442.8  
1871 9.8 71625.8 -1449.3  
1872 8.5 71636.3 -1435.9  
1873 9.2 71637.2 -1434.8  
1874 9.3 71655.1 -1429.2  
1875 9.2 71656.7 -1453.9  
1876 8.6 71700.6 -1456.4  
  
1877 9.5 71702.5 -1446.6  
1878 9.8 71713.7 -1451.3  
1879 9.2 71718.4 -1400.5  
1880 8.2 71728.9 -1431.8  
1881 8.8 71730.0 -1427.5  
1882 9.8 71743.0 -1448.5  
1883 9.8 71751.7 -1455.7  
1884 9.5 71812.0 -1451.8  
1885 9.6 71818.0 -1406.7  
1886 10. 71821.0 -1449.4  
  
1887 7.5 71829.2 -1436.0  
1888 8.7 71847.6 -1457.3  
1889 9.0 71852.1 -1410.6  
1890 10. 71859.7 -1404.6  
1891 9.5 71911.0 -1410.9  
1892 9.5 71926.6 -1429.6  
1893 9.4 71929.4 -1448.0  
1894 9.0 71933.6 -1448.2  
1895 9.5 71942.1 -1418.4  
1896 9.3 71944.3 -1441.6  
  
1897 8.9 71945.1 -1439.7  
1898 10. 71953.7 -1435.2  
1899 9.7 71955.9 -1400.5  
1900 9.8 71959.0 -1409.1  
1901 9.5 72010.2 -1459.2  
1902 9.7 72016.4 -1403.6  
1903 9.8 72017.9 -1407.3  
1904 9.8 72017.3 -1431.6  
1905 10. 72018.6 -1424.2  
1906 9.9 72018.1 -1443.5  
  
1907 9.5 72018.8 -1441.1  
1908 9.3 72018.8 -1411.6  
1909 9.5 72111.1 -1453.4  
1910 9.8 72113.0 -1424.9  
1911 9.4 72117.5 -1454.9  
1912 9.6 72117.9 -1423.1  
1913 9.0 72127.8 -1442.8  
1914 9.0 72130.6 -1432.7  
1915 9.0 72136.7 -1404.5  
1916 10. 72141.8 -1455.9  
  
1917 9.7 72147.0 -1455.9  
1918 9.5 72148.0 -1401.2  
1919 9.1 72154.9 -1439.6  
1920 9.4 72159.4 -1436.5  
1921 10. 72220.1 -1400.9  
1922 9.9 72223.7 -1416.6  
1923 8.7 72233.5 -1444.7  
1924 9.1 72239.4 -1400.7  
1925 6.7 72246.4 -1441.7  
1926 9.0 72247.0 -1451.5  
  
1927 9.5 72309.0 -1451.7  
1928 7.7 72315.0 -1401.6  
1929 9.4 72317.7 -1407.9  
1930 9.5 72327.1 -1411.8  
1931 9.8 72337.7 -1417.0  
1932 8.2 72340.6 -1442.1  
1933 9.5 72344.0 -1404.2  
1934 9.3 72352.9 -1423.1  
1935 9.5 72356.7 -1440.5  
1936 9.8 72400.2 -1447.0  
  
1937 9.8 72406.9 -1425.9  
1938 10. 72409.7 -1459.9  
1939 9.1 72417.3 -1455.2  
1940 9.8 72422.9 -1406.5  
1941 9.8 72425.4 -1413.6  
1942 9.8 72426.8 -1447.0  
1943 9.5 72438.0 -1456.6  
1944 7.1 72442.0 -1440.0  
1945 9.8 72447.3 -1408.9  
1946 10. 72448.6 -1427.0

1947 9.8 72453.2 -1419.6  
1948 9.5 72503.7 -1448.4  
1949 10. 72511.3 -1440.8  
1950 8.5 72521.3 -1421.5  
1951 9.5 72531.0 -1410.6  
1952 8.9 72537.1 -1445.3  
1953 9.2 72544.4 -1440.8  
1954 10. 72545.7 -1417.5  
1955 9.5 72550.6 -1416.2  
1956 9.4 72557.3 -1405.8  
  
1957 9.4 72606.0 -1424.1  
1958 9.5 72608.0 -1449.5  
1959 9.8 72614.7 -1440.2  
1960 9.8 72617.1 -1432.1  
1961 10. 72621.1 -1455.4  
1962 9.5 72624.3 -1444.9  
1963 9.5 72629.1 -1433.4  
1964 9.1 72630.7 -1452.2  
1965 9.8 72642.2 -1424.1  
1966 6.8 72642.2 -1401.8  
  
1967 9.5 72651.8 -1402.0  
1968 9.5 72700.1 -1404.7  
1969 9.1 72700.3 -1406.6  
1970 8.7 72703.9 -1450.8  
1971 5.8 72708.0 -1412.7  
1972 9.8 72708.1 -1417.3  
1973 8.7 72710.0 -1458.7  
1974 9.7 72720.3 -1446.1  
1975 9.4 72724.9 -1425.7  
1976 10. 72737.4 -1448.7  
  
1977 9.2 72753.8 -1446.5  
1978 9.8 72755.9 -1419.8  
1979 9.2 72756.3 -1444.4  
1980 9.1 72816.1 -1438.1  
1981 9.8 72816.6 -1401.2  
1982 9.2 72824.4 -1443.7  
1983 9.8 72835.8 -1423.5  
1984 9.1 72849.9 -1445.0  
1985 9.5 72851.9 -1408.4  
1986 9.4 72852.0 -1430.1  
  
1987 9.0 72857.5 -1421.5  
1988 9.8 72858.1 -1417.1  
1989 9.5 72902.2 -1409.1  
1990 9.3 72902.9 -1400.4  
1991 10. 72910.0 -1416.6  
1992 10. 72913.0 -1416.7  
1993 9.8 72914.3 -1421.7  
1994 8.5 72917.6 -1423.3  
1995 9.8 72917.9 -1436.9  
1996 9.5 72919.9 -1409.4  
  
1997 10. 72920.7 -1440.4  
1998 10. 72922.3 -1450.2  
1999 6.9 72923.7 -1410.3  
2000 9.5 72924.7 -1410.1  
2001 8.5 72929.2 -1422.8  
2002 8.6 72929.5 -1405.0  
2003 9.6 72930.8 -1403.9  
2004 9.6 72930.8 -1420.9  
2005 9.7 72930.8 -1408.4  
2006 10. 72932.2 -1419.0  
  
2007 9.7 72934.7 -1436.4  
2008 9.9 72935.7 -1416.3  
2009 10. 72936.9 -1426.8  
2010 9.4 72940.0 -1416.5  
2011 9.7 72940.5 -1426.5  
2012 9.0 72942.3 -1410.9  
2013 9.0 72942.4 -1425.4  
2014 9.4 72944.0 -1416.7  
2015 9.6 72945.7 -1410.0  
2016 7.8 72948.2 -1416.6  
  
2017 9.5 72949.4 -1408.1  
2018 9.0 72951.2 -1420.8  
2019 9.1 72954.8 -1406.5  
2020 8.0 72955.7 -1410.0  
2021 8.0 72956.4 -1410.1  
2022 9.0 72956.7 -1408.4  
2023 9.7 72959.3 -1404.0  
2024 9.8 73000.7 -1409.6  
2025 8.0 73001.3 -1407.5  
2026 10. 73002.1 -1435.3  
  
2027 9.3 73005.0 -1440.5  
2028 9.7 73005.6 -1405.1  
2029 8.6 73007.7 -1414.6  
2030 9.5 73008.5 -1445.0  
2031 10. 73010.0 -1453.8  
2032 9.6 73011.6 -1405.3  
2033 10. 73012.9 -1412.1  
2034 9.7 73014.2 -1414.2  
2035 9.8 73015.5 -1448.0  
2036 10. 73022.3 -1411.8

-14 2036 7h30m



|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|------|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 2037 | 9.8 | 73025.1 | -1405.2 | 2127 | 9.9  | 73502.4 | -1427.8 | 2217 | 9.9 | 74131.2 | -1406.9 | 2307 | 9.8 | 75143.0 | -1450.3 |
| 2038 | 10. | 73026.7 | -1412.3 | 2128 | 9.9  | 73505.7 | -1430.2 | 2218 | 9.8 | 74140.5 | -1452.5 | 2308 | 9.0 | 75144.9 | -1437.0 |
| 2039 | 8.6 | 73027.9 | -1400.3 | 2129 | 20.0 | 73508.7 | -1423.3 | 2219 | 9.4 | 74149.2 | -1443.5 | 2309 | 8.8 | 75150.2 | -1450.7 |
| 2040 | 9.8 | 73028.3 | -1414.1 | 2130 | 10.  | 73510.4 | -1433.0 | 2220 | 9.2 | 74154.9 | -1413.9 | 2310 | 8.5 | 75210.1 | -1427.5 |
| 2041 | 9.7 | 73034.2 | -1406.2 | 2131 | 10.  | 73510.5 | -1427.0 | 2221 | 9.8 | 74209.8 | -1411.4 | 2311 | 9.4 | 75241.7 | -1405.7 |
| 2042 | 9.8 | 73036.6 | -1404.3 | 2132 | 10.  | 73510.6 | -1431.0 | 2222 | 9.8 | 74216.0 | -1437.1 | 2312 | 9.5 | 75253.5 | -1406.0 |
| 2043 | 9.8 | 73036.7 | -1417.9 | 2133 | 10.  | 73512.3 | -1424.8 | 2223 | 8.7 | 74220.0 | -1415.0 | 2313 | 9.1 | 75257.0 | -1412.9 |
| 2044 | 10. | 73038.4 | -1412.6 | 2134 | 9.0  | 73512.8 | -1439.4 | 2224 | 9.4 | 74227.8 | -1420.1 | 2314 | 9.3 | 75306.9 | -1410.3 |
| 2045 | 9.4 | 73040.7 | -1441.7 | 2135 | 10.  | 73513.7 | -1426.8 | 2225 | 9.3 | 74228.3 | -1455.7 | 2315 | 9.4 | 75308.0 | -1409.9 |
| 2046 | 10. | 73042.6 | -1416.6 | 2136 | 10.  | 73514.0 | -1434.6 | 2226 | 9.4 | 74232.4 | -1403.4 | 2316 | 9.4 | 75308.1 | -1403.4 |
|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
| 2047 | 9.9 | 73050.5 | -1420.5 | 2137 | 10.  | 73515.3 | -1445.0 | 2227 | 8.9 | 74234.1 | -1455.8 | 2317 | 9.5 | 75318.9 | -1437.0 |
| 2048 | 10. | 73050.6 | -1419.6 | 2138 | 8.6  | 73517.2 | -1404.1 | 2228 | 9.6 | 74236.1 | -1421.0 | 2318 | 9.3 | 75334.3 | -1451.6 |
| 2049 | 10. | 73055.7 | -1412.3 | 2139 | 9.6  | 73519.6 | -1429.0 | 2229 | 7.8 | 74250.5 | -1459.0 | 2319 | 9.0 | 75353.0 | -1424.9 |
| 2050 | 10. | 73056.6 | -1435.7 | 2140 | 9.9  | 73521.5 | -1431.0 | 2230 | 9.0 | 74307.9 | -1417.3 | 2320 | 9.0 | 75400.2 | -1416.6 |
| 2051 | 5.3 | 73056.7 | -1446.3 | 2141 | 9.7  | 73524.5 | -1433.1 | 2231 | 9.1 | 74310.5 | -1438.9 | 2321 | 9.5 | 75404.7 | -1450.3 |
| 2052 | 9.1 | 73056.8 | -1406.1 | 2142 | 9.9  | 73525.8 | -1425.0 | 2232 | 9.2 | 74316.7 | -1441.2 | 2322 | 9.5 | 75409.3 | -1435.4 |
| 2053 | 7.5 | 73058.6 | -1406.9 | 2143 | 10.  | 73530.7 | -1419.5 | 2233 | 9.0 | 74319.3 | -1453.4 | 2323 | 9.1 | 75411.3 | -1436.7 |
| 2054 | 9.6 | 73102.3 | -1430.3 | 2144 | 10.  | 73531.2 | -1411.3 | 2234 | 9.2 | 74353.2 | -1446.0 | 2324 | 10. | 75414.7 | -1458.1 |
| 2055 | 9.8 | 73106.3 | -1416.4 | 2145 | 9.9  | 73531.2 | -1427.0 | 2235 | 9.1 | 74354.0 | -1442.8 | 2325 | 9.5 | 75415.1 | -1439.8 |
| 2056 | 9.2 | 73108.2 | -1428.1 | 2146 | 10.  | 73531.9 | -1438.4 | 2236 | 10. | 74354.4 | -1416.0 | 2326 | 9.0 | 75421.8 | -1406.8 |
|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
| 2057 | 9.2 | 73115.1 | -1425.8 | 2147 | 10.  | 73533.2 | -1457.6 | 2237 | 9.5 | 74355.7 | -1403.8 | 2327 | 9.1 | 75423.5 | -1447.7 |
| 2058 | 10. | 73132.6 | -1435.9 | 2148 | 9.7  | 73535.6 | -1446.1 | 2238 | 9.8 | 74410.5 | -1419.6 | 2328 | 9.5 | 75425.5 | -1420.8 |
| 2059 | 9.1 | 73138.3 | -1427.5 | 2149 | 9.7  | 73536.7 | -1448.0 | 2239 | 10. | 74425.5 | -1420.1 | 2329 | 10. | 75439.4 | -1444.0 |
| 2060 | 9.6 | 73156.6 | -1417.6 | 2150 | 9.7  | 73536.8 | -1429.7 | 2240 | 8.9 | 74429.2 | -1452.9 | 2330 | 9.5 | 75454.3 | -1415.1 |
| 2061 | 9.0 | 73157.2 | -1439.9 | 2151 | 9.6  | 73538.4 | -1414.2 | 2241 | 9.7 | 74435.0 | -1400.6 | 2331 | 7.3 | 75454.7 | -1451.2 |
| 2062 | 10. | 73157.5 | -1419.4 | 2152 | 10.  | 73539.3 | -1436.0 | 2242 | 9.8 | 74451.1 | -1422.1 | 2332 | 8.2 | 75456.5 | -1421.8 |
| 2063 | 9.1 | 73203.5 | -1412.5 | 2153 | 10.  | 73547.3 | -1431.6 | 2243 | 9.4 | 74500.5 | -1444.7 | 2333 | 9.6 | 75522.0 | -1413.3 |
| 2064 | 9.2 | 73206.4 | -1426.1 | 2154 | 10.  | 73547.4 | -1432.9 | 2244 | 9.5 | 74503.9 | -1429.2 | 2334 | 9.4 | 75522.5 | -1439.3 |
| 2065 | 8.5 | 73211.0 | -1445.4 | 2155 | 10.  | 73550.1 | -1429.3 | 2245 | 8.2 | 74508.7 | -1453.1 | 2335 | 9.1 | 75523.7 | -1429.4 |
| 2066 | 9.0 | 73214.5 | -1400.4 | 2156 | 9.8  | 73550.9 | -1459.4 | 2246 | 9.3 | 74516.1 | -1440.1 | 2336 | 9.7 | 75525.6 | -1442.2 |
|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
| 2067 | 9.0 | 73216.1 | -1402.1 | 2157 | 9.2  | 73552.1 | -1457.0 | 2247 | 9.4 | 74518.6 | -1458.1 | 2337 | 9.3 | 75537.5 | -1441.0 |
| 2068 | 9.5 | 73220.7 | -1422.0 | 2158 | 8.6  | 73600.1 | -1400.5 | 2248 | 8.7 | 74523.3 | -1431.0 | 2338 | 9.8 | 75541.5 | -1442.0 |
| 2069 | 9.4 | 73223.2 | -1445.0 | 2159 | 10.  | 73601.7 | -1439.8 | 2249 | 9.5 | 74527.4 | -1413.6 | 2339 | 9.4 | 75549.6 | -1455.8 |
| 2070 | 9.4 | 73236.6 | -1400.5 | 2160 | 10.  | 73601.8 | -1426.6 | 2250 | 6.3 | 74538.8 | -1428.6 | 2340 | 9.0 | 75551.4 | -1457.3 |
| 2071 | 9.5 | 73237.8 | -1406.4 | 2161 | 10.  | 73604.2 | -1428.4 | 2251 | 8.5 | 74540.0 | -1456.8 | 2341 | 9.0 | 75555.5 | -1452.4 |
| 2072 | 9.5 | 73239.8 | -1453.4 | 2162 | 9.5  | 73604.3 | -1405.6 | 2252 | 9.5 | 74543.1 | -1440.4 | 2342 | 9.0 | 75558.9 | -1438.6 |
| 2073 | 9.0 | 73246.3 | -1457.3 | 2163 | 10.  | 73606.0 | -1417.2 | 2253 | 9.5 | 74549.1 | -1456.8 | 2343 | 9.5 | 75559.2 | -1419.0 |
| 2074 | 10. | 73248.5 | -1447.2 | 2164 | 10.  | 73606.5 | -1425.7 | 2254 | 10. | 74556.8 | -1432.3 | 2344 | 9.3 | 75603.4 | -1423.5 |
| 2075 | 9.8 | 73249.1 | -1445.3 | 2165 | 10.  | 73607.4 | -1439.7 | 2255 | 9.3 | 74600.2 | -1410.2 | 2345 | 10. | 75618.3 | -1408.6 |
| 2076 | 9.6 | 73253.0 | -1442.4 | 2166 | 9.0  | 73609.7 | -1431.3 | 2256 | 9.8 | 74612.9 | -1459.8 | 2346 | 9.5 | 75634.7 | -1458.5 |
|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
| 2077 | 5.5 | 73303.6 | -1417.8 | 2167 | 10.  | 73611.3 | -1412.4 | 2257 | 9.5 | 74616.7 | -1455.8 | 2347 | 9.8 | 75649.0 | -1452.4 |
| 2078 | 9.5 | 73306.5 | -1456.6 | 2168 | 9.7  | 73611.4 | -1424.2 | 2258 | 9.0 | 74622.0 | -1439.0 | 2348 | 9.0 | 75650.9 | -1456.9 |
| 2079 | 9.8 | 73324.1 | -1404.8 | 2169 | 9.4  | 73613.9 | -1425.9 | 2259 | 9.7 | 74628.1 | -1408.8 | 2349 | 9.4 | 75652.0 | -1423.4 |
| 2080 | 9.4 | 73326.2 | -1438.3 | 2170 | 10.  | 73616.1 | -1408.7 | 2260 | 8.9 | 74628.4 | -1438.6 | 2350 | 9.6 | 75711.2 | -1451.6 |
| 2081 | 9.5 | 73330.8 | -1453.3 | 2171 | 8.8  | 73616.8 | -1439.7 | 2261 | 9.8 | 74635.2 | -1443.2 | 2351 | 9.4 | 75717.1 | -1430.1 |
| 2082 | 5.4 | 73345.3 | -1455.7 | 2172 | 9.8  | 73619.3 | -1450.0 | 2262 | 9.7 | 74646.8 | -1410.8 | 2352 | 9.7 | 75722.5 | -1444.6 |
| 2083 | 9.7 | 73349.6 | -1412.3 | 2173 | 9.7  | 73619.7 | -1458.9 | 2263 | 9.1 | 74702.0 | -1426.3 | 2353 | 9.8 | 75737.1 | -1446.9 |
| 2084 | 8.5 | 73352.8 | -1418.6 | 2174 | 9.4  | 73629.9 | -1429.7 | 2264 | 9.2 | 74703.2 | -1407.5 | 2354 | 10. | 75743.5 | -1429.7 |
| 2085 | 9.1 | 73400.1 | -1404.5 | 2175 | 9.9  | 73631.9 | -1428.7 | 2265 | 9.6 | 74703.7 | -1417.0 | 2355 | 8.9 | 75758.9 | -1429.6 |
| 2086 | 9.0 | 73403.9 | -1456.7 | 2176 | 9.6  | 73633.4 | -1409.9 | 2266 | 9.8 | 74721.3 | -1450.5 | 2356 | 9.4 | 75801.0 | -1448.5 |
|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
| 2087 | 9.8 | 73405.2 | -1440.8 | 2177 | 10.  | 73637.5 | -1431.8 | 2267 | 9.5 | 74734.4 | -1434.1 | 2357 | 9.5 | 75807.8 | -1453.3 |
| 2088 | 9.3 | 73406.1 | -1420.3 | 2178 | 8.7  | 73638.7 | -1429.6 | 2268 | 9.0 | 74734.8 | -1409.1 | 2358 | 9.5 | 75810.0 | -1417.0 |
| 2089 | 9.1 | 73406.1 | -1410.7 | 2179 | 9.6  | 73648.7 | -1442.5 | 2269 | 9.3 | 74748.1 | -1402.7 | 2359 | 8.8 | 75812.9 | -1458.9 |
| 2090 | 10. | 73408.2 | -1426.1 | 2180 | 10.  | 73654.3 | -1437.2 | 2270 | 9.3 | 74801.2 | -1405.0 | 2360 | 9.2 | 75817.5 | -1452.9 |
| 2091 | 9.6 | 73411.4 | -1426.8 | 2181 | 9.0  | 73655.4 | -1408.7 | 2271 | 9.4 | 74811.6 | -1403.7 | 2361 | 9.5 | 75832.6 | -1453.1 |
| 2092 | 10. | 73413.3 | -1402.5 | 2182 | 9.8  | 73702.1 | -1419.9 | 2272 | 9.6 | 74812.9 | -1417.9 | 2362 | 8.5 | 75839.3 | -1416.0 |
| 2093 | 10. | 73414.3 | -1432.6 | 2183 | 9.2  | 73704.3 | -1446.1 | 2273 | 9.8 | 74821.1 | -1426.1 | 2363 | 9.5 | 75901.7 | -1425.4 |
| 2094 | 9.4 | 73416.6 | -1447.2 | 2184 | 9.1  | 73717.0 | -1446.2 | 2274 | 8.7 | 74822.9 | -1415.3 | 2364 | 10. | 75901.8 | -1420.0 |
| 2095 | 10. | 73419.4 | -1439.6 | 2185 | 10.  | 73735.8 | -1426.0 | 2275 | 8.7 | 74845.2 | -1420.6 | 2365 | 8.8 | 75905.6 | -1405.5 |
| 2096 | 10. | 73419.8 | -1402.2 | 2186 | 9.4  | 73741.8 | -1429.4 | 2276 | 9.4 | 74852.0 | -1448.0 | 2366 | 9.0 | 75908.1 | -1457.3 |
|      |     |         |         |      |      |         |         |      |     |         |         |      |     |         |         |
| 2097 | 9.4 | 73423.2 | -1414.0 | 2187 | 9.8  | 73759.5 | -1453.8 | 2277 | 9.4 | 74904.2 | -1455.8 | 2367 | 9.3 | 75942.9 | -1420.6 |
| 2098 | 9.9 | 73423.7 | -1427.5 | 2188 | 9.4  | 73759.9 | -1419.4 | 2278 | 10. | 74905.3 | -1412.5 | 2368 | 9.3 | 75945.1 | -1409.9 |
| 2099 | 8.7 | 73425.0 | -1443.2 | 2189 | 9.5  | 73800.5 | -1435.5 | 2279 | 9.8 | 74917.1 | -1454.3 | 2369 | 9.3 | 75945.5 | -1401.4 |
| 2100 | 10. | 73429.3 | -1424.8 | 2190 | 8.0  | 73809.6 | -1444.1 | 2280 | 9.1 | 74924.2 | -1433.9 | 2370 | 9.3 | 75951.0 | -1416.1 |
| 2101 | 9.2 | 73429.6 | -1410.9 | 2191 | 9.5  | 73829.1 | -1444.4 | 2281 | 8.2 | 74931.7 | -1431.0 | 2371 | 9.8 | 75958.0 | -1444.2 |
| 2102 | 8.9 | 73429.6 | -1431.4 | 2192 | 10.  | 73829.5 | -1456.7 | 2282 | 9.5 | 74939.2 | -1427.4 | 2372 | 8.7 | 75958.8 | -1426.8 |
| 2103 | 9.5 | 73430.9 | -1407.5 | 2193 | 7.0  | 73848.9 | -1420.1 | 2283 | 9.8 | 74940.4 | -1446.0 | 2373 | 9.5 | 80013.0 | -1453.7 |
| 2104 | 10. | 73433.0 | -1420.5 | 2194 | 7.0  | 73849.4 | -1420.5 | 2284 | 9.3 | 74942.3 | -1401.9 | 2374 | 9.2 | 80027.0 | -1443.1 |
| 2105 | 9.3 | 73433.3 | -1416.5 | 2195 | 9.4  | 73853.5 | -1435.6 |      |     |         |         |      |     |         |         |



-14 2397 8h03m

2397 10. 80315.0 -1448.2  
2398 8.3 80316.6 -1411.4  
2399 9.5 80409.3 -1438.7  
2400 9.1 80415.2 -1428.1  
2401 9.0 80423.7 -1452.0  
2402 9.6 80430.7 -1447.9  
2403 9.5 80438.8 -1400.6  
2404 8.2 80446.4 -1400.6  
2405 9.3 80452.7 -1456.4  
2406 9.0 80509.2 -1414.4  
  
2407 9.3 80509.5 -1445.6  
2408 9.4 80509.6 -1458.5  
2409 9.3 80523.4 -1454.8  
2410 9.5 80535.7 -1415.4  
2411 10. 80537.0 -1451.5  
2412 9.8 80537.7 -1445.2  
2413 9.8 80542.1 -1432.9  
2414 9.5 80549.7 -1402.8  
2415 9.3 80553.7 -1448.6  
2416 9.0 80555.9 -1452.7  
  
2417 8.8 80556.3 -1450.3  
2418 9.0 80600.7 -1458.0  
2419 9.0 80601.1 -1416.0  
2420 8.8 80603.5 -1408.6  
2421 9.0 80613.9 -1412.4  
2422 9.0 80615.6 -1431.2  
2423 9.1 80617.7 -1402.4  
2424 8.3 80621.3 -1420.1  
2425 9.1 80626.2 -1454.5  
2426 10. 80639.4 -1457.4  
  
2427 9.5 80647.6 -1450.9  
2428 9.1 80700.4 -1425.9  
2429 9.3 80704.0 -1428.1  
2430 9.3 80711.1 -1458.2  
2431 9.7 80711.7 -1442.4  
2432 9.5 80713.3 -1414.3  
2433 10. 80721.8 -1409.1  
2434 9.5 80725.6 -1454.7  
2435 9.7 80728.1 -1408.3  
2436 9.2 80729.3 -1411.2  
  
2437 9.8 80730.5 -1405.0  
2438 9.5 80746.6 -1439.5  
2439 9.8 80748.7 -1415.2  
2440 8.8 80803.2 -1452.7  
2441 9.5 80835.4 -1427.2  
2442 9.4 80840.3 -1405.6  
2443 9.8 80848.3 -1458.0  
2444 9.4 80859.4 -1457.4  
2445 9.8 80910.8 -1421.0  
2446 9.8 80921.0 -1426.9  
  
2447 9.1 80929.1 -1432.5  
2448 9.5 80930.2 -1420.8  
2449 9.6 80932.3 -1402.1  
2450 9.6 80942.8 -1449.8  
2451 9.1 80948.4 -1423.3  
2452 9.0 80956.5 -1430.4  
2453 9.5 81000.1 -1400.4  
2454 9.3 81001.6 -1451.0  
2455 9.2 81009.2 -1419.4  
2456 7.0 81010.1 -1442.5  
  
2457 8.5 81010.7 -1430.1  
2458 10. 81110.6 -1415.8  
2459 9.8 81116.5 -1455.0  
2460 8.0 81118.5 -1431.6  
2461 9.8 81121.2 -1411.7  
2462 9.6 81121.4 -1450.4  
2463 10. 81133.1 -1416.6  
2464 9.7 81143.5 -1430.5  
2465 8.8 81152.8 -1459.1  
2466 7.1 81153.0 -1407.1  
  
2467 9.7 81153.3 -1451.0  
2468 9.6 81157.5 -1438.3  
2469 9.3 81201.9 -1445.2  
2470 9.2 81224.9 -1445.7  
2471 8.8 81228.6 -1425.3  
2472 9.5 81249.4 -1423.4  
2473 9.3 81259.7 -1440.7  
2474 8.1 81320.5 -1409.3  
2475 9.0 81323.4 -1426.3  
2476 9.3 81335.3 -1424.2  
  
2477 9.5 81344.8 -1459.4  
2478 9.6 81346.0 -1455.3  
2479 9.4 81401.2 -1441.1  
2480 9.3 81403.6 -1417.0  
2481 9.8 81414.3 -1453.2  
2482 10. 81422.8 -1403.9  
2483 7.1 81436.0 -1431.1  
2484 9.0 81437.9 -1447.7  
2485 9.0 81445.2 -1420.5  
2486 9.3 81447.3 -1450.2

2487 8.8 81453.7 -1458.4  
2488 9.8 81505.5 -1453.6  
2489 9.8 81513.0 -1444.3  
2490 9.3 81517.3 -1425.5  
2491 9.5 81522.6 -1416.2  
2492 9.4 81529.6 -1416.4  
2493 9.1 81532.5 -1413.4  
2494 9.8 81552.4 -1407.2  
2495 9.6 81604.2 -1441.2  
2496 9.5 81618.5 -1411.2  
  
2497 9.8 81625.2 -1449.5  
2498 9.2 81629.2 -1451.8  
2499 9.8 81715.1 -1400.5  
2500 9.8 81718.1 -1448.2  
2501 9.8 81723.2 -1442.6  
2502 9.2 81751.1 -1454.9  
2503 8.2 81754.8 -1408.0  
2504 7.3 81755.5 -1459.3  
2505 8.7 81801.7 -1443.3  
2506 9.4 81805.6 -1449.3  
  
2507 9.8 81805.7 -1401.3  
2508 8.3 81806.7 -1422.1  
2509 9.5 81814.0 -1415.6  
2510 7.3 81815.9 -1449.5  
2511 8.8 81820.5 -1441.8  
2512 9.3 81835.9 -1430.7  
2513 9.4 81839.9 -1407.4  
2514 9.7 81844.0 -1454.6  
2515 8.0 81905.5 -1457.5  
2516 9.4 81907.4 -1445.8  
  
2517 6.4 81911.7 -1427.9  
2518 9.4 81917.2 -1424.3  
2519 9.8 81925.1 -1432.1  
2520 9.9 81925.7 -1429.4  
2521 9.8 81935.1 -1450.5  
2522 9.1 81952.1 -1433.9  
2523 9.8 82009.4 -1441.6  
2524 9.7 82026.1 -1458.1  
2525 9.9 82038.7 -1455.1  
2526 7.0 82042.5 -1427.5  
  
2527 9.4 82049.1 -1443.8  
2528 9.7 82052.3 -1442.2  
2529 9.3 82053.0 -1457.4  
2530 9.7 82104.3 -1402.0  
2531 9.5 82118.1 -1408.8  
2532 8.5 82132.1 -1406.1  
2533 9.3 82133.0 -1454.3  
2534 9.8 82138.7 -1444.5  
2535 9.3 82140.9 -1426.4  
2536 8.6 82143.0 -1430.2  
  
2537 9.5 82208.2 -1443.8  
2538 9.8 82212.7 -1402.8  
2539 9.1 82234.0 -1454.9  
2540 9.4 82242.6 -1408.8  
2541 10. 82247.0 -1453.3  
2542 9.1 82256.8 -1402.3  
2543 9.3 82301.5 -1458.5  
2544 9.4 82322.3 -1443.2  
2545 9.2 82324.1 -1424.6  
2546 9.4 82324.6 -1450.1  
  
2547 10. 82331.2 -1417.0  
2548 8.2 82339.2 -1452.9  
2549 9.5 82340.4 -1450.6  
2550 9.3 82343.6 -1441.1  
2551 9.4 82353.2 -1429.0  
2552 8.0 82419.6 -1442.0  
2553 9.5 82431.0 -1435.5  
2554 9.0 82431.0 -1400.9  
2555 9.3 82439.9 -1439.4  
2556 9.5 82445.4 -1427.0  
  
2557 10. 82506.5 -1405.0  
2558 9.8 82518.3 -1426.0  
2559 9.8 82533.2 -1409.9  
2560 9.8 82538.5 -1446.2  
2561 9.6 82539.6 -1444.7  
2562 9.5 82542.0 -1422.3  
2563 9.0 82543.7 -1455.1  
2564 6.8 82548.4 -1432.4  
2565 9.2 82556.6 -1452.1  
2566 9.4 82557.0 -1421.0  
  
2567 9.8 82559.0 -1436.1  
2568 9.2 82611.7 -1445.8  
2569 8.9 82613.6 -1410.7  
2570 10. 82634.1 -1404.0  
2571 9.1 82641.5 -1416.3  
2572 8.3 82645.6 -1442.7  
2573 9.3 82707.0 -1435.6  
2574 9.2 82720.1 -1402.1  
2575 9.6 82739.7 -1401.6  
2576 9.2 82742.3 -1446.2

2577 9.5 82742.3 -1417.6  
2578 9.9 82830.5 -1441.0  
2579 8.4 82838.0 -1443.2  
2580 10. 82847.1 -1434.8  
2581 9.5 82901.7 -1421.8  
2582 9.5 82920.5 -1453.8  
2583 8.0 82929.9 -1437.6  
2584 10. 82930.0 -1400.1  
2585 9.5 82941.1 -1433.0  
2586 8.5 82948.2 -1406.6  
  
2587 9.7 82958.8 -1440.2  
2588 8.6 83006.0 -1415.8  
2589 9.8 83006.2 -1458.5  
2590 9.0 83017.9 -1435.6  
2591 9.6 83030.4 -1434.3  
2592 9.3 83045.6 -1400.6  
2593 9.3 83130.5 -1443.0  
2594 8.0 83135.9 -1445.9  
2595 9.1 83142.4 -1440.9  
2596 8.7 83156.5 -1413.2  
  
2597 8.7 83209.0 -1410.1  
2598 9.2 83213.4 -1432.9  
2599 9.0 83216.7 -1429.8  
2600 9.8 83217.5 -1449.3  
2601 9.2 83221.2 -1459.6  
2602 10. 83228.3 -1437.0  
2603 9.9 83246.4 -1432.5  
2604 9.0 83305.1 -1459.8  
2605 10. 83309.4 -1438.7  
2606 9.8 83312.0 -1451.9  
  
2607 9.2 83313.5 -1443.1  
2608 7.8 83318.0 -1431.4  
2609 9.5 83318.5 -1443.5  
2610 8.5 83333.8 -1447.4  
2611 8.2 83337.7 -1411.5  
2612 9.1 83343.9 -1408.5  
2613 9.4 83344.8 -1445.9  
2614 8.5 83411.0 -1439.3  
2615 8.8 83416.8 -1420.7  
2616 9.3 83429.6 -1410.5  
  
2617 9.7 83429.9 -1434.6  
2618 9.4 83430.8 -1436.1  
2619 9.7 83457.4 -1459.9  
2620 9.6 83504.3 -1407.2  
2621 10. 83508.3 -1447.6  
2622 10. 83528.1 -1428.1  
2623 9.2 83542.4 -1410.9  
2624 9.3 83549.7 -1400.5  
2625 9.2 83551.0 -1417.1  
2626 9.1 83554.2 -1454.4  
  
2627 9.1 83555.8 -1452.2  
2628 9.8 83606.8 -1404.9  
2629 8.4 83608.6 -1428.3  
2630 8.7 83622.7 -1428.6  
2631 8.5 83705.7 -1432.7  
2632 9.8 83709.3 -1456.4  
2633 9.3 83717.1 -1427.4  
2634 9.4 83725.0 -1453.0  
2635 9.8 83752.9 -1434.8  
2636 9.6 83813.9 -1444.7  
  
2637 8.2 83819.6 -1453.8  
2638 9.8 83821.0 -1448.7  
2639 9.8 83832.3 -1415.7  
2640 9.8 83846.5 -1425.2  
2641 9.5 83916.2 -1453.2  
2642 10. 83920.6 -1401.6  
2643 10. 83921.5 -1405.4  
2644 10. 83922.4 -1432.7  
2645 9.4 83924.0 -1441.3  
2646 9.1 83948.7 -1457.0  
  
2647 9.5 84014.7 -1459.0  
2648 9.4 84016.0 -1440.6  
2649 9.1 84019.7 -1436.1  
2650 10. 84022.1 -1430.3  
2651 9.9 84031.3 -1417.6  
2652 9.6 84033.5 -1439.0  
2653 9.4 84103.3 -1411.4  
2654 9.5 84111.0 -1420.3  
2655 10. 84120.5 -1424.0  
2656 9.3 84127.5 -1426.0  
  
2657 10. 84132.3 -1405.2  
2658 9.2 84154.6 -1431.2  
2659 9.7 84154.8 -1412.3  
2660 9.5 84203.7 -1454.6  
2661 9.1 84214.4 -1418.3  
2662 10. 84219.6 -1436.0  
2663 9.8 84219.9 -1408.1  
2664 9.8 84222.1 -1430.0  
2665 9.0 84250.4 -1456.4  
2666 9.1 84255.3 -1409.4

2667 9.7 84258.2 -1432.9  
2668 9.5 84316.8 -1415.6  
2669 7.8 84340.6 -1404.3  
2670 9.3 84344.6 -1455.4  
2671 9.8 84350.4 -1404.4  
2672 9.9 84357.2 -1438.9  
2673 9.3 84405.7 -1449.7  
2674 10. 84411.5 -1449.5  
2675 9.0 84415.1 -1432.6  
2676 9.1 84428.8 -1447.7  
  
2677 8.5 84443.5 -1451.4  
2678 9.4 84507.3 -1406.9  
2679 9.6 84508.4 -1426.5  
2680 10. 84511.0 -1453.8  
2681 9.0 84522.1 -1431.4  
2682 9.8 84531.2 -1421.8  
2683 9.4 84531.2 -1424.0  
2684 10. 84542.8 -1427.7  
2685 10. 84544.0 -1422.0  
2686 10. 84554.6 -1447.3  
  
2687 9.6 84555.8 -1460.4  
2688 8.5 84557.8 -1470.1  
2689 8.8 84558.4 -1453.2  
2690 9.6 84630.5 -1401.3  
2691 8.3 84635.5 -1451.6  
2692 9.5 84640.8 -1444.0  
2693 9.8 84645.9 -1401.8  
2694 9.9 84653.9 -1426.5  
2695 9.0 84654.5 -1450.2  
2696 9.0 84710.2 -1441.4  
  
2697 9.2 84724.1 -1439.8  
2698 9.8 84754.8 -1422.7  
2699 10. 84759.2 -1418.6  
2700 8.5 84807.8 -1433.8  
2701 9.5 84808.7 -1417.5  
2702 9.8 84811.3 -1446.3  
2703 9.6 84822.1 -1469.3  
2704 8.5 84842.5 -1404.3  
2705 9.5 84845.8 -1420.1  
2706 9.0 84855.0 -1458.1  
  
2707 6.5 84906.9 -1453.4  
2708 9.9 84945.4 -1450.1  
2709 8.9 85024.4 -1400.8  
2710 9.7 85026.3 -1428.0  
2711 9.8 85057.2 -1421.3  
2712 6.9 85114.8 -1425.4  
2713 9.7 85115.0 -1443.2  
2714 9.1 85124.0 -1449.0  
2715 9.0 85159.3 -1425.9  
2716 9.4 85200.9 -1457.5  
  
2717 10. 85237.5 -1440.0  
2718 10. 85243.0 -1459.3  
2719 9.5 85251.8 -1455.4  
2720 8.0 85252.7 -1426.8  
2721 9.7 85312.0 -1438.1  
2722 8.3 85329.1 -1415.2  
2723 10. 85345.5 -1449.0  
2724 9.8 85345.8 -1428.1  
2725 9.8 85419.3 -1410.2  
2726 8.4 85420.8 -1449.5  
  
2727 9.4 85433.1 -1418.9  
2728 9.3 85433.2 -1406.9  
2729 8.5 85445.9 -1426.8  
2730 9.5 85532.9 -1437.9  
2731 9.8 85502.0 -1443.7  
2732 8.5 85612.1 -1418.1  
2733 8.3 85625.4 -1441.0  
2734 9.1 85625.8 -1453.2  
2735 9.7 85643.8 -1465.4  
2736 9.6 85655.4 -1438.7  
  
2737 9.1 85722.3 -1438.1  
2738 9.1 85724.5 -1421.3  
2739 9.7 85744.5 -1444.7  
2740 10. 85826.4 -1400.5  
2741 8.5 85847.5 -1400.3  
2742 9.0 85854.6 -1424.7  
2743 8.7 85856.4 -1413.2  
2744 9.2 85858.5 -1416.5  
2745 9.8 85859.4 -1415.5  
2746 9.6 85859.7 -1441.3  
  
2747 9.3 85940.0 -1450.5  
2748 9.5 85945.7 -1433.5  
2749 10. 90001.2 -1433.0  
2750 10. 90026.7 -1454.7  
2751 9.1 90036.2 -1455.5  
2752 9.3 90043.7 -1431.2  
2753 10. 90054.1 -1400.1  
2754 9.7 90103.7 -1441.7  
2755 9.2 90133.8 -1447.5  
2756 9.4 90139.5 -1421.1

-14 2756 9h01m



-14 2757 9h01m

2757 7.2 90140.5 -1433.4  
2758 9.8 90142.1 -1449.0  
2759 9.4 90156.2 -1454.6  
2760 9.9 90222.0 -1426.5  
2761 9.8 90226.6 -1427.6  
2762 9.4 90243.0 -1442.4  
2763 9.4 90248.9 -1416.7  
2764 9.8 90251.3 -1437.8  
2765 9.5 90308.4 -1457.2  
2766 8.5 90315.7 -1431.6

2767 9.1 90321.3 -1414.0  
2768 9.5 90323.6 -1426.1  
2769 7.5 90335.4 -1418.7  
2770 10.1 90359.4 -1417.8  
2771 9.3 90400.8 -1428.5  
2772 8.0 90405.5 -1452.3  
2773 8.0 90426.4 -1421.8  
2774 9.4 90513.2 -1405.0  
2775 9.5 90513.5 -1425.2  
2776 8.8 90526.0 -1441.1

2777 9.5 90552.6 -1406.1  
2778 9.3 90557.1 -1452.5  
2779 10.1 90600.3 -1443.1  
2780 7.7 90608.0 -1449.8  
2781 9.0 90632.2 -1406.3  
2782 9.8 90634.1 -1434.1  
2783 9.2 90635.6 -1444.6  
2784 9.6 90651.7 -1402.0  
2785 9.3 90656.6 -1415.0  
2786 6.9 90711.1 -1406.0

2787 9.6 90727.5 -1430.6  
2788 9.3 90746.1 -1440.6  
2789 8.0 90749.4 -1421.0  
2790 9.0 90800.8 -1415.8  
2791 9.3 90810.5 -1454.0  
2792 9.4 90828.0 -1428.4  
2793 6.8 90833.9 -1425.8  
2794 9.0 90843.5 -1445.2  
2795 10.1 90900.8 -1447.3  
2796 9.4 90924.9 -1426.3

2797 9.5 90927.1 -1426.0  
2798 9.6 90941.0 -1440.9  
2799 9.7 90957.6 -1434.5  
2800 9.1 91005.9 -1448.5  
2801 9.1 91008.3 -1452.7  
2802 8.2 91012.5 -1454.1  
2803 9.1 91017.2 -1430.9  
2804 9.7 91017.7 -1403.5  
2805 9.8 91026.1 -1435.2  
2806 10.1 91055.1 -1439.0

2807 9.6 91056.0 -1442.3  
2808 9.6 91103.4 -1403.6  
2809 9.8 91105.5 -1455.1  
2810 9.3 91115.7 -1402.8  
2811 9.0 91132.6 -1453.5  
2812 9.4 91132.6 -1439.1  
2813 9.0 91142.0 -1433.6  
2814 9.4 91200.5 -1449.0  
2815 9.3 91200.9 -1434.8  
2816 10.1 91229.9 -1451.7

2817 10.1 91256.1 -1408.1  
2818 9.5 91256.9 -1434.2  
2819 8.6 91259.6 -1410.4  
2820 9.2 91300.7 -1454.2  
2821 9.8 91313.2 -1448.1  
2822 9.8 91313.7 -1449.7  
2823 10.1 91330.3 -1430.0  
2824 8.8 91338.5 -1408.1  
2825 9.8 91349.4 -1445.2  
2826 9.0 91354.5 -1437.8

2827 9.4 91403.4 -1447.0  
2828 6.8 91403.9 -1459.9  
2829 9.6 91405.0 -1439.2  
2830 9.0 91407.8 -1450.8  
2831 9.1 91418.9 -1455.0  
2832 9.9 91429.9 -1401.0  
2833 10.1 91502.3 -1453.1  
2834 9.2 91527.8 -1452.0  
2835 7.5 91540.5 -1437.3  
2836 9.8 91543.1 -1408.7

2837 9.1 91545.4 -1456.2  
2838 9.6 91549.3 -1447.8  
2839 9.3 91553.5 -1440.0  
2840 8.5 91604.8 -1452.7  
2841 9.1 91643.9 -1406.7  
2842 9.0 91700.8 -1428.8  
2843 9.5 91712.3 -1451.2  
2844 9.2 91809.1 -1421.0  
2845 9.3 91824.1 -1403.4  
2846 9.0 91829.6 -1400.6

2847 9.7 91834.6 -1444.4  
2848 9.4 91834.9 -1411.8  
2849 9.6 91839.1 -1443.1  
2850 8.9 91846.4 -1402.7  
2851 9.0 91904.8 -1434.1  
2852 9.7 91919.0 -1449.7  
2853 10.1 91926.9 -1408.0  
2854 10.1 91927.7 -1412.0  
2855 9.2 91934.9 -1422.2  
2856 10.1 91945.2 -1450.8

2857 9.8 92011.8 -1430.9  
2858 9.5 92014.0 -1445.8  
2859 9.5 92039.9 -1438.4  
2860 7.5 92100.0 -1414.0  
2861 9.8 92125.1 -1424.3  
2862 10.1 92133.1 -1448.1  
2863 9.1 92149.2 -1403.6  
2864 9.1 92304.1 -1427.3  
2865 8.6 92323.2 -1459.4  
2866 9.3 92326.6 -1454.8

2867 6.3 92330.4 -1456.6  
2868 10.1 92332.6 -1410.7  
2869 10.1 92333.2 -1426.0  
2870 9.0 92345.3 -1431.6  
2871 9.8 92405.8 -1448.6  
2872 8.5 92409.7 -1410.9  
2873 9.6 92410.1 -1401.0  
2874 9.3 92434.5 -1430.6  
2875 10.1 92454.6 -1441.0  
2876 8.5 92503.2 -1407.8

2877 9.6 92505.1 -1420.6  
2878 9.6 92602.4 -1426.5  
2879 10.1 92603.6 -1408.1  
2880 9.4 92620.3 -1458.1  
2881 9.7 92624.4 -1414.9  
2882 9.7 92624.7 -1440.7  
2883 8.8 92639.7 -1447.9  
2884 9.4 92654.1 -1404.5  
2885 9.8 92715.5 -1401.7  
2886 9.3 92719.0 -1444.5

2887 9.6 92725.3 -1403.4  
2888 9.0 92737.2 -1423.8  
2889 9.7 92756.3 -1448.3  
2890 10.1 92815.1 -1409.0  
2891 9.6 92823.8 -1440.2  
2892 9.8 92832.7 -1454.3  
2893 9.6 92834.9 -1402.8  
2894 9.2 92840.5 -1409.7  
2895 8.6 92907.8 -1425.1  
2896 10.1 92915.2 -1452.1

2897 8.5 92916.6 -1409.7  
2898 10.1 92934.0 -1406.1  
2899 9.1 92949.2 -1400.0  
2900 9.5 93011.2 -1451.0  
2901 9.7 93014.0 -1436.3  
2902 9.8 93015.2 -1409.4  
2903 9.8 93022.4 -1413.9  
2904 8.0 93023.1 -1411.9  
2905 9.6 93046.4 -1444.9  
2906 10.1 93102.8 -1459.3

2907 9.0 93133.3 -1459.0  
2908 9.3 93156.3 -1434.8  
2909 9.3 93225.2 -1432.4  
2910 9.8 93237.8 -1409.4  
2911 9.8 93310.6 -1451.2  
2912 10.1 93318.0 -1415.8  
2913 9.1 93319.3 -1431.6  
2914 9.1 93327.7 -1429.7  
2915 9.2 93331.1 -1454.3  
2916 9.8 93342.6 -1453.1

2917 9.5 93356.1 -1418.2  
2918 9.5 93358.5 -1417.4  
2919 9.3 93413.2 -1432.5  
2920 10.1 93452.3 -1400.2  
2921 8.5 93501.6 -1446.6  
2922 9.7 93512.8 -1422.7  
2923 9.9 93514.8 -1457.5  
2924 9.5 93532.2 -1459.1  
2925 8.8 93533.1 -1419.6  
2926 9.4 93535.5 -1416.3

2927 8.4 93536.3 -1421.7  
2928 9.3 93543.3 -1400.0  
2929 9.6 93605.7 -1414.0  
2930 10.1 93617.6 -1459.1  
2931 9.9 93619.4 -1440.1  
2932 9.9 93629.7 -1435.8  
2933 8.5 93646.2 -1430.7  
2934 9.5 93657.0 -1457.5  
2935 9.5 93657.8 -1408.1  
2936 9.5 93718.8 -1407.9

2937 9.7 93758.7 -1433.8  
2938 8.6 93809.4 -1420.2  
2939 9.2 93819.1 -1425.0  
2940 10.1 93839.3 -1443.2  
2941 9.2 93841.7 -1445.6  
2942 9.1 93844.2 -1432.7  
2943 9.6 93910.9 -1402.4  
2944 9.5 93939.0 -1452.5  
2945 10.1 93940.3 -1442.5  
2946 9.4 94019.9 -1401.8

2947 9.2 94028.2 -1414.6  
2948 9.8 94035.8 -1452.5  
2949 10.1 94049.3 -1442.9  
2950 10.1 94051.6 -1404.6  
2951 8.5 94058.8 -1416.2  
2952 9.1 94106.2 -1444.9  
2953 10.1 94138.3 -1445.2  
2954 10.1 94220.3 -1417.2  
2955 9.3 94251.1 -1437.5  
2956 9.6 94309.6 -1439.8

2957 8.8 94319.9 -1441.4  
2958 9.1 94355.7 -1457.8  
2959 9.5 94358.1 -1410.9  
2960 8.4 94415.3 -1400.4  
2961 9.7 94420.0 -1408.3  
2962 9.8 94427.0 -1431.5  
2963 5.0 94430.9 -1410.0  
2964 9.0 94436.5 -1442.4  
2965 9.0 94455.6 -1414.6  
2966 9.2 94502.2 -1436.2

2967 9.5 94504.4 -1406.3  
2968 9.2 94510.8 -1457.8  
2969 10.1 94521.4 -1431.6  
2970 8.9 94525.8 -1440.4  
2971 9.8 94607.1 -1426.9  
2972 9.6 94607.8 -1428.1  
2973 9.8 94615.7 -1424.2  
2974 9.8 94623.4 -1442.4  
2975 9.3 94636.3 -1429.5  
2976 9.8 94755.7 -1426.8

2977 9.7 94805.5 -1403.7  
2978 9.2 94845.6 -1417.5  
2979 9.2 94849.8 -1459.3  
2980 8.9 94859.1 -1451.5  
2981 10.1 95006.8 -1436.6  
2982 9.3 95010.9 -1413.0  
2983 9.2 95017.5 -1414.8  
2984 9.3 95025.1 -1452.6  
2985 9.3 95031.0 -1450.7  
2986 9.3 95038.1 -1452.4

2987 8.9 95048.0 -1449.9  
2988 10.1 95120.7 -1459.7  
2989 9.8 95138.6 -1458.9  
2990 9.4 95201.8 -1408.5  
2991 10.1 95231.4 -1426.9  
2992 9.0 95234.5 -1415.7  
2993 9.5 95234.9 -1416.4  
2994 9.8 95241.6 -1447.5  
2995 9.9 95252.9 -1433.1  
2996 9.3 95254.1 -1443.2

2997 9.5 95343.2 -1447.9  
2998 10.1 95355.7 -1416.4  
2999 9.3 95401.9 -1422.3  
3000 9.5 95414.3 -1401.6  
3001 9.8 95415.1 -1419.0  
3002 7.7 95423.3 -1445.4  
3003 8.6 95440.5 -1443.6  
3004 9.1 95447.0 -1402.0  
3005 7.5 95505.6 -1419.8  
3006 10.1 95507.0 -1456.1

3007 8.3 95515.3 -1412.8  
3008 9.0 95517.8 -1408.5  
3009 9.3 95520.2 -1454.8  
3010 8.5 95528.7 -1426.3  
3011 9.3 95608.5 -1430.4  
3012 9.2 95625.6 -1438.0  
3013 9.1 95641.1 -1444.5  
3014 10.1 95641.4 -1408.4  
3015 10.1 95644.6 -1403.2  
3016 8.8 95705.3 -1457.1

3017 8.6 95708.4 -1431.6  
3018 9.5 95734.7 -1459.4  
3019 9.7 95803.3 -1422.3  
3020 9.9 95808.8 -1422.3  
3021 9.4 95815.0 -1445.9  
3022 9.5 95830.0 -1444.8  
3023 9.8 95835.4 -1457.8  
3024 9.3 95848.1 -1407.7  
3025 9.0 95852.4 -1406.3  
3026 10.1 95917.8 -1422.1

-14 3116 10h18m

3027 10.1 95921.4 -1430.7  
3028 9.4 95932.1 -1408.8  
3029 7.8 100020.1 -1445.1  
3030 9.4 100021.3 -1458.0  
3031 9.4 100039.6 -1409.9  
3032 8.8 100041.7 -1424.1  
3033 9.1 100115.2 -1424.6  
3034 9.3 100120.8 -1457.1  
3035 9.8 100122.5 -1407.5  
3036 6.5 100135.7 -1454.2

3037 9.5 100155.0 -1407.8  
3038 10.1 100207.4 -1440.6  
3039 7.5 100208.4 -1446.5  
3040 9.3 100214.0 -1440.8  
3041 7.8 100241.8 -1403.1  
3042 10.1 100310.1 -1416.5  
3043 9.9 100320.3 -1425.3  
3044 9.1 100331.2 -1454.9  
3045 9.3 100342.5 -1449.0  
3046 7.2 100351.6 -1459.8

3047 9.8 100422.6 -1437.4  
3048 10.1 100432.6 -1411.0  
3049 8.7 100433.0 -1420.6  
3050 9.0 100439.8 -1442.5  
3051 9.8 100455.0 -1417.5  
3052 9.4 100502.3 -1430.4  
3053 9.1 100515.8 -1447.0  
3054 7.0 100522.3 -1421.3  
3055 8.5 100538.4 -1459.5  
3056 8.8 100550.4 -1413.3

3057 9.6 100554.6 -1400.7  
3058 10.1 100618.3 -1450.6  
3059 8.3 100618.4 -1459.0  
3060 9.8 100647.0 -1421.0  
3061 8.8 100648.2 -1433.3  
3062 7.9 100701.5 -1400.6  
3063 9.8 100704.6 -1455.6  
3064 9.8 100710.2 -1401.5  
3065 10.1 100739.6 -1455.8  
3066 8.9 100754.9 -1414.6

3067 9.0 100759.0 -1419.6  
3068 9.4 100818.6 -1424.0  
3069 9.3 100832.3 -1443.3  
3070 10.1 100845.1 -1430.7  
3071 9.6 100852.0 -1416.8  
3072 9.8 100903.1 -1459.2  
3073 10.1 100919.7 -1406.4  
3074 10.1 100951.4 -1458.0  
3075 9.2 100954.3 -1413.0  
3076 9.3 100956.3 -1458.5

3077 9.5 101018.5 -1425.3  
3078 9.6 101042.9 -1420.2  
3079 9.4 101102.4 -1454.1  
3080 9.8 101117.4 -1450.8  
3081 9.2 101124.6 -1404.4  
3082 9.5 101126.0 -1429.3  
3083 9.3 101127.2 -1407.7  
3084 9.7 101135.0 -1415.5  
3085 9.5 101159.9 -1422.0  
3086 8.2 101204.6 -1436.4

3087 9.8 101226.7 -1409.9  
3088 9.8 101228.0 -1402.3  
3089 9.4 101234.6 -1437.4  
3090 9.6 101254.4 -1422.0  
3091 10.1 101333.4 -1412.3  
3092 9.1 101333.5 -1415.9  
3093 7.0 101349.2 -1445.8  
3094 10.1 101354.9 -1459.0  
3095 10.1 101414.0 -1434.2  
3096 9.1 101418.6 -1407.9

3097 8.6 101439.9 -1428.1  
3098 9.0 101442.3 -1455.3  
3099 9.6 101447.1 -1448.6  
3100 9.4 101541.4 -1429.7  
3101 9.8 101551.8 -1451.0  
3102 9.5 101558.8 -1440.4  
3103 9.1 101602.4 -1441.1  
3104 9.1 101604.8 -1455.3  
3105 9.8 101606.7 -1419.6  
3106 9.5 101632.5 -1439.5

3107 10.1 101641.7 -1417.6  
3108 9.8 101646.8 -1459.9  
3109 8.9 101649.9 -1432.1  
3110 10.1 101653.1 -1443.3  
3111 9.9 101658.0 -1413.1  
3112 9.6 101710.9 -1436.1  
3113 9.3 101731.2 -1458.2  
3114 9.6 101749.7 -1420.6  
3115 9.6 101753.8 -1426.8  
3116 8.3 101819.1 -1417.9



3117 9.2 101828.2 -1443.0  
 3118 9.1 101847.1 -1418.8  
 3119 8.9 101904.6 -1414.3  
 3120 10. 101904.9 -1404.6  
 3121 9.2 102017.0 -1444.5  
 3122 9.3 102028.1 -1422.0  
 3123 8.7 102037.0 -1443.7  
 3124 9.8 102051.1 -1418.7  
 3125 9.8 102057.4 -1439.4  
 3126 9.6 102104.3 -1407.0

3127 9.1 102121.0 -1422.1  
 3128 9.2 102228.5 -1420.4  
 3129 9.9 10241.4 -1454.8  
 3130 10. 102301.5 -1455.2  
 3131 9.3 102317.1 -1439.0  
 3132 9.6 102405.7 -1440.4  
 3133 9.2 102419.6 -1426.5  
 3134 6.8 102432.3 -1408.3  
 3135 9.4 102442.5 -1455.9  
 3136 9.4 102457.4 -1415.7

3137 10. 102548.8 -1411.7  
 3138 8.3 102600.4 -1400.6  
 3139 9.7 102620.2 -1450.5  
 3140 9.5 102621.9 -1453.8  
 3141 9.8 102647.6 -1431.1  
 3142 9.4 102704.7 -1440.4  
 3143 9.7 102706.9 -1435.5  
 3144 9.9 102725.0 -1458.7  
 3145 9.5 102751.7 -1400.4  
 3146 8.9 102759.7 -1409.4

3147 9.3 102811.1 -1453.8  
 3148 9.6 102854.1 -1449.3  
 3149 8.9 102907.5 -1429.6  
 3150 9.1 102926.0 -1428.0  
 3151 8.4 102944.3 -1440.0  
 3152 10. 103037.9 -1447.7  
 3153 9.1 103039.0 -1443.8  
 3154 9.4 103056.5 -1446.4  
 3155 9.4 103124.2 -1421.1  
 3156 7.5 103143.8 -1459.0

3157 9.5 103206.1 -1409.8  
 3158 9.8 103243.2 -1457.0  
 3159 9.6 103300.3 -1428.1  
 3160 9.0 103339.5 -1443.9  
 3161 8.0 103343.2 -1427.5  
 3162 10. 103412.9 -1406.5  
 3163 9.4 103426.5 -1413.2  
 3164 8.1 103434.6 -1455.4  
 3165 8.7 103458.0 -1436.6  
 3166 9.0 103612.5 -1412.1

3167 9.2 103615.9 -1432.5  
 3168 10. 103631.4 -1439.4  
 3169 8.7 103640.8 -1402.1  
 3170 8.8 103700.7 -1425.4  
 3171 9.0 103703.4 -1447.3  
 3172 5.0 103723.7 -1405.4  
 3173 10. 103746.9 -1409.6  
 3174 8.9 103859.1 -1443.7  
 3175 8.5 103908.1 -1422.6  
 3176 7.5 103918.0 -1416.2

3177 10. 103919.8 -1401.9  
 3178 8.8 103924.5 -1448.9  
 3179 8.7 103933.1 -1444.2  
 3180 9.8 103925.9 -1443.6  
 3181 7.2 103950.5 -1458.5  
 3182 9.1 104009.9 -1451.1  
 3183 9.4 104017.7 -1437.3  
 3184 7.8 104029.2 -1451.2  
 3185 10. 104029.3 -1440.9  
 3186 7.0 104029.5 -1429.7

3187 9.0 104030.0 -1451.2  
 3188 7.5 104030.7 -1428.4  
 3189 7.2 104033.3 -1420.5  
 3190 8.5 104055.5 -1411.8  
 3191 10. 104122.4 -1417.1  
 3192 9.6 104151.8 -1447.8  
 3193 8.2 104157.9 -1423.6  
 3194 10. 104214.0 -1431.8  
 3195 9.7 104257.0 -1424.6  
 3196 9.5 104259.4 -1428.2

3197 9.8 104311.6 -1414.7  
 3198 8.8 104311.9 -1413.1  
 3199 8.0 104318.4 -1419.6  
 3200 9.8 104329.1 -1455.0  
 3201 9.5 104330.0 -1459.1  
 3202 7.5 104345.3 -1407.2  
 3203 10. 104400.3 -1449.7  
 3204 9.8 104406.9 -1440.8  
 3205 9.5 104437.7 -1404.4  
 3206 9.6 104448.8 -1440.8

3207 10. 104524.9 -1424.0  
 3208 10. 104540.0 -1412.1  
 3209 9.6 104550.4 -1441.0  
 3210 9.5 104553.4 -1449.8  
 3211 9.7 104557.7 -1401.1  
 3212 9.8 104608.5 -1432.9  
 3213 6.6 104622.3 -1440.5  
 3214 9.5 104634.4 -1429.7  
 3215 9.9 104648.0 -1447.7  
 3216 10. 104711.3 -1436.7

3217 10. 104716.2 -1442.7  
 3218 9.5 104722.1 -1419.4  
 3219 9.7 104726.5 -1421.2  
 3220 9.7 104731.7 -1450.9  
 3221 8.6 104744.8 -1440.6  
 3222 10. 104804.8 -1419.0  
 3223 8.8 104817.6 -1451.5  
 3224 9.1 104817.9 -1429.5  
 3225 9.5 104837.9 -1453.7  
 3226 9.0 104851.7 -1415.7

3227 9.8 104907.6 -1440.7  
 3228 9.5 104909.2 -1455.7  
 3229 8.4 104920.7 -1447.6  
 3230 8.0 104938.5 -1407.4  
 3231 9.6 104943.1 -1409.9  
 3232 8.5 105007.5 -1457.6  
 3233 9.3 105034.3 -1440.4  
 3234 10. 105041.9 -1450.1  
 3235 9.9 105102.3 -1423.4  
 3236 10. 105209.3 -1454.6

3237 8.2 105243.3 -1439.1  
 3238 9.8 105305.3 -1435.3  
 3239 9.1 105342.2 -1434.7  
 3240 10. 105345.6 -1447.4  
 3241 10. 105414.9 -1457.8  
 3242 10. 105438.1 -1428.3  
 3243 10. 105451.0 -1442.6  
 3244 10. 105452.3 -1414.0  
 3245 8.0 105454.7 -1454.5  
 3246 8.7 105508.1 -1445.1

3247 8.9 105526.9 -1405.2  
 3248 9.2 105602.8 -1409.4  
 3249 9.9 105615.6 -1429.9  
 3250 10. 105631.3 -1427.0  
 3251 10. 105631.8 -1406.2  
 3252 9.4 105702.2 -1437.1  
 3253 9.6 105716.9 -1417.6  
 3254 10. 105717.4 -1408.0  
 3255 8.5 105722.8 -1408.5  
 3256 9.7 105748.0 -1422.8

3257 9.8 105814.5 -1443.2  
 3258 10. 105822.6 -1438.8  
 3259 9.2 105925.1 -1401.1  
 3260 9.1 105934.1 -1420.8  
 3261 9.1 105936.0 -1443.4  
 3262 8.3 105954.1 -1446.0  
 3263 8.2 110009.9 -1425.3  
 3264 9.7 110036.0 -1441.9  
 3265 10. 110056.9 -1423.4  
 3266 8.6 110121.6 -1446.5

3267 10. 110123.5 -1402.5  
 3268 9.1 110132.0 -1444.5  
 3269 9.5 110141.9 -1450.6  
 3270 9.7 110224.6 -1439.2  
 3271 10. 110231.1 -1454.4  
 3272 9.0 110233.4 -1418.2  
 3273 9.2 110234.5 -1405.3  
 3274 9.8 110257.2 -1405.9  
 3275 9.9 110317.1 -1405.7  
 3276 8.8 110325.7 -1407.5

3277 9.0 110413.1 -1411.1  
 3278 9.7 110427.9 -1401.5  
 3279 9.2 110432.6 -1402.5  
 3280 9.3 110457.9 -1444.9  
 3281 9.1 110521.0 -1455.1  
 3282 9.3 110525.5 -1442.0  
 3283 9.9 110556.7 -1417.8  
 3284 9.3 110605.1 -1411.2  
 3285 9.9 110606.2 -1420.4  
 3286 9.0 110615.3 -1428.6

3287 9.3 110618.7 -1424.0  
 3288 8.6 110630.6 -1412.1  
 3289 8.0 110649.4 -1438.7  
 3290 9.7 110651.7 -1421.3  
 3291 9.5 110659.5 -1456.6  
 3292 9.1 110737.8 -1426.7  
 3293 10. 110742.6 -1418.7  
 3294 9.1 110745.2 -1403.6  
 3295 9.0 110752.6 -1421.5  
 3296 10. 110910.5 -1414.4

3297 8.6 110953.0 -1418.0  
 3298 10. 111015.3 -1442.9  
 3299 10. 111032.4 -1406.4  
 3300 9.3 111059.0 -1415.6  
 3301 9.8 111143.3 -1405.6  
 3302 9.4 111206.0 -1424.4  
 3303 9.3 111226.1 -1414.5  
 3304 9.3 111226.6 -1448.8  
 3305 8.8 111232.1 -1431.2  
 3306 10. 111312.3 -1424.7

3307 9.0 111337.0 -1402.5  
 3308 9.0 111432.8 -1416.5  
 3309 9.4 111434.9 -1404.9  
 3310 9.7 111510.5 -1416.5  
 3311 9.8 111517.2 -1411.0  
 3312 9.7 111613.4 -1442.1  
 3313 9.1 111700.9 -1430.6  
 3314 10. 111710.0 -1451.8  
 3315 10. 111710.7 -1410.2  
 3316 9.7 111726.0 -1453.6

3317 9.7 111726.6 -1457.8  
 3318 9.4 111742.5 -1423.4  
 3319 9.9 111743.6 -1403.9  
 3320 9.4 111745.4 -1424.3  
 3321 8.8 111844.6 -1409.2  
 3322 9.4 111849.0 -1455.2  
 3323 9.9 111853.6 -1459.3  
 3324 9.4 111913.0 -1457.6  
 3325 9.3 111938.9 -1456.0  
 3326 7.5 111953.3 -1450.6

3327 10. 112001.2 -1458.0  
 3328 9.8 112046.3 -1431.5  
 3329 9.8 112052.2 -1440.2  
 3330 9.7 112136.5 -1407.4  
 3331 9.6 112152.9 -1400.0  
 3332 9.0 112157.9 -1418.7  
 3333 9.3 112204.3 -1451.8  
 3334 9.8 112217.1 -1415.6  
 3335 10. 112236.7 -1425.7  
 3336 10. 112259.3 -1434.8

3337 10. 112306.8 -1453.3  
 3338 9.0 112308.0 -1431.5  
 3339 9.7 112312.4 -1440.8  
 3340 9.1 112319.6 -1418.3  
 3341 10. 112421.8 -1406.0  
 3342 9.2 112440.6 -1457.0  
 3343 9.1 112516.5 -1448.8  
 3344 10. 112535.1 -1431.7  
 3345 9.8 112537.0 -1457.0  
 3346 9.2 112551.9 -1400.8

3347 10. 112610.7 -1415.7  
 3348 10. 112618.6 -1426.1  
 3349 8.0 112701.0 -1442.3  
 3350 8.8 112718.4 -1446.1  
 3351 9.6 112722.8 -1417.8  
 3352 9.3 112725.2 -1401.3  
 3353 8.8 112809.5 -1420.4  
 3354 10. 112817.5 -1423.8  
 3355 8.7 112823.5 -1459.9  
 3356 9.3 112833.6 -1428.7

3357 9.0 112838.6 -1470.3  
 3358 9.4 112846.4 -1445.8  
 3359 10. 112848.0 -1459.7  
 3360 9.9 112927.3 -1414.4  
 3361 9.8 112942.4 -1423.3  
 3362 10. 113003.3 -1420.0  
 3363 10. 113014.3 -1415.1  
 3364 9.8 113029.4 -1424.5  
 3365 9.6 113050.3 -1445.7  
 3366 10. 113052.8 -1412.9

3367 9.4 113119.2 -1409.8  
 3368 9.5 113122.0 -1430.7  
 3369 10. 113124.5 -1447.3  
 3370 8.0 113124.6 -1415.4  
 3371 8.5 113139.3 -1413.8  
 3372 8.8 113143.1 -1405.5  
 3373 9.5 113145.8 -1415.3  
 3374 9.9 113153.0 -1452.7  
 3375 9.1 113202.8 -1405.2  
 3376 9.3 113222.7 -1401.0

3377 9.3 113244.7 -1414.8  
 3378 9.2 113330.4 -1435.3  
 3379 9.1 113332.9 -1423.8  
 3380 10. 113420.4 -1453.1  
 3381 9.1 113429.1 -1425.6  
 3382 8.5 113456.0 -1455.2  
 3383 9.0 113458.3 -1424.3  
 3384 10. 113459.7 -1441.8  
 3385 10. 113507.0 -1406.8  
 3386 9.4 113513.4 -1435.1

3387 9.5 113528.6 -1458.0  
 3388 7.0 113609.9 -1414.2  
 3389 10. 113618.4 -1402.9  
 3390 9.8 113624.3 -1406.4  
 3391 8.4 113642.4 -1439.1  
 3392 9.8 113717.8 -1449.9  
 3393 10. 113722.1 -1418.0  
 3394 9.8 113728.9 -1403.6  
 3395 9.5 113729.2 -1426.7  
 3396 9.4 113734.8 -1431.5

3397 9.8 113800.1 -1420.7  
 3398 9.8 113801.5 -1445.4  
 3399 9.7 113837.2 -1402.7  
 3400 9.8 113856.8 -1429.8  
 3401 10. 113901.7 -1432.9  
 3402 8.8 113909.4 -1407.9  
 3403 9.6 113924.7 -1431.8  
 3404 10. 113946.0 -1405.2  
 3405 9.8 113952.4 -1409.9  
 3406 8.2 114031.3 -1439.4

3407 9.2 114041.1 -1425.7  
 3408 9.8 114041.4 -1450.0  
 3409 10. 114047.6 -1429.3  
 3410 9.1 114052.5 -1423.3  
 3411 9.1 114054.2 -1451.3  
 3412 9.9 114112.3 -1410.1  
 3413 8.6 114119.1 -1411.9  
 3414 9.0 114129.0 -1444.7  
 3415 8.5 114218.2 -1437.3  
 3416 10. 114251.0 -1439.4

3417 9.6 114255.2 -1428.6  
 3418 8.2 114327.9 -1434.8  
 3419 9.1 114403.4 -1414.4  
 3420 10. 114423.5 -1420.5  
 3421 9.8 114427.2 -1454.1  
 3422 9.6 114458.7 -1444.5  
 3423 9.4 114519.6 -1420.7  
 3424 8.2 114523.5 -1402.0  
 3425 9.9 114537.3 -1449.2  
 3426 9.5 114540.1 -1456.0

3427 8.0 114550.0 -1452.0  
 3428 8.2 114618.1 -1447.6  
 3429 8.7 114625.3 -1402.3  
 3430 9.5 114637.1 -1403.0  
 3431 9.8 114649.6 -1410.0  
 3432 9.7 114735.5 -1417.2  
 3433 9.7 114802.9 -1441.2  
 3434 9.9 114840.0 -1413.9  
 3435 8.6 114852.8 -1441.6  
 3436 9.0 114947.3 -1439.4

3437 9.5 115017.1 -1424.8  
 3438 7.5 115109.4 -1418.3  
 3439 8.2 115122.9 -1403.5  
 3440 9.8 115144.4 -1403.8  
 3441 9.7 115212.3 -1448.6  
 3442 9.0 115248.2 -1437.2  
 3443 9.0 115257.3 -1425.1  
 3444 9.0 115303.8 -1428.3  
 3445 9.5 115314.9 -1409.5  
 3446 9.2 115316.3 -1421.3

3447 9.8 115321.2 -1424.2  
 3448 9.3 115401.2 -1443.1  
 3449 9.8 115413.4 -1411.9  
 3450 9.8 115436.7 -1437.8  
 3451 9.1 115444.3 -1451.9  
 3452 9.7 115540.6 -1435.4  
 3453 9.3 115623.2 -1422.4  
 3454 8.6 115639.2 -1428.5  
 3455 9.7 115641.9 -1450.0  
 3456 9.1 115655.2 -1418.2

3457 9.1 115710.7 -1416.9  
 3458 9.5 115815.1 -1417.3  
 3459 9.5 115958.5 -1434.1  
 3460 8.3 120009.3 -1403.1  
 3461 9.5 120038.0 -1430.9  
 3462 9.0 120043.1 -1418.8  
 3463 9.5 120044.0 -1427.1  
 3464 9.1 120044.4 -1442.5  
 3465 9.1 120100.0 -1459.4  
 3466 9.4 120135.6 -1449.0

3467 9.5 120235.5 -1454.7  
 3468 8.4 120247.9 -1436.8  
 3469 8.7 120320.5 -1407.6  
 3470 9.5 120349.8 -1433.0  
 3471 9.4 120352.9 -1413.4  
 3472 9.4 120409.8 -1417.3  
 3473 9.7 120428.5 -1414.0  
 3474 10. 120453.3 -1435.8  
 3475 9.3 120501.3 -1444.9  
 3476 8.3 120502.6 -1439.2



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 3477 | 9.8  | 120521.4 | -1447.4 | 3567 | 9.9  | 123631.5 | -1410.0 | 3657 | 8.7  | 130240.0 | -1434.8 | 3747 | 9.8  | 132720.0 | -1403.8 |
| 3478 | 9.3  | 120543.9 | -1426.0 | 3568 | 8.3  | 123733.4 | -1405.9 | 3658 | 9.4  | 130240.8 | -1450.4 | 3748 | 9.5  | 132744.2 | -1443.7 |
| 3479 | 9.0  | 120638.9 | -1442.2 | 3569 | 9.8  | 123754.7 | -1433.4 | 3659 | 9.5  | 130251.1 | -1423.6 | 3749 | 8.8  | 132749.7 | -1405.0 |
| 3480 | 9.4  | 120647.9 | -1411.0 | 3570 | 7.9  | 123756.2 | -1442.4 | 3660 | 9.8  | 130445.9 | -1438.6 | 3750 | 8.6  | 132758.0 | -1414.3 |
| 3481 | 9.8  | 120819.2 | -1436.2 | 3571 | 10.1 | 123814.7 | -1415.1 | 3661 | 9.8  | 130447.0 | -1407.0 | 3751 | 9.3  | 132803.1 | -1408.8 |
| 3482 | 9.3  | 120827.3 | -1402.8 | 3572 | 7.9  | 123825.5 | -1444.6 | 3662 | 10.1 | 130500.3 | -1411.4 | 3752 | 9.0  | 132822.1 | -1430.7 |
| 3483 | 9.3  | 120901.3 | -1452.0 | 3573 | 8.0  | 123855.7 | -1438.5 | 3663 | 10.1 | 130516.4 | -1426.3 | 3753 | 9.5  | 132823.4 | -1452.5 |
| 3484 | 8.3  | 120943.7 | -1425.8 | 3574 | 9.8  | 123855.9 | -1403.0 | 3664 | 9.8  | 130517.8 | -1403.5 | 3754 | 10.1 | 132836.6 | -1447.5 |
| 3485 | 9.7  | 121008.4 | -1445.3 | 3575 | 9.5  | 123923.3 | -1422.2 | 3665 | 7.9  | 130534.5 | -1441.4 | 3755 | 8.8  | 132859.3 | -1428.6 |
| 3486 | 8.9  | 121032.8 | -1408.1 | 3576 | 9.8  | 123951.8 | -1433.3 | 3666 | 9.7  | 130536.1 | -1419.7 | 3756 | 8.5  | 132940.3 | -1451.0 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3487 | 10.1 | 121044.6 | -1425.5 | 3577 | 9.8  | 124009.2 | -1442.1 | 3667 | 9.7  | 130559.3 | -1408.7 | 3757 | 10.1 | 132948.2 | -1437.8 |
| 3488 | 7.7  | 121053.1 | -1446.9 | 3578 | 9.5  | 124032.2 | -1429.0 | 3668 | 8.3  | 130600.9 | -1437.2 | 3758 | 9.8  | 132951.5 | -1449.1 |
| 3489 | 8.2  | 121129.7 | -1458.5 | 3579 | 9.1  | 124033.0 | -1417.5 | 3669 | 9.3  | 130609.4 | -1439.0 | 3759 | 10.1 | 132958.6 | -1428.7 |
| 3490 | 9.8  | 121159.0 | -1457.4 | 3580 | 9.7  | 124034.4 | -1405.4 | 3670 | 9.3  | 130631.1 | -1415.4 | 3760 | 8.2  | 133011.6 | -1433.4 |
| 3491 | 9.5  | 121216.6 | -1434.1 | 3581 | 7.5  | 124055.5 | -1455.4 | 3671 | 8.6  | 130708.4 | -1414.7 | 3761 | 9.5  | 133028.5 | -1411.1 |
| 3492 | 10.1 | 121220.0 | -1457.0 | 3582 | 9.4  | 124106.8 | -1409.2 | 3672 | 9.5  | 130741.7 | -1448.5 | 3762 | 9.5  | 133030.6 | -1428.7 |
| 3493 | 8.0  | 121227.7 | -1414.9 | 3583 | 9.2  | 124121.6 | -1451.1 | 3673 | 9.6  | 130742.3 | -1445.3 | 3763 | 9.2  | 133043.6 | -1406.1 |
| 3494 | 8.7  | 121253.6 | -1401.1 | 3584 | 9.4  | 124134.4 | -1443.0 | 3674 | 9.0  | 130756.6 | -1412.7 | 3764 | 9.8  | 133047.2 | -1453.4 |
| 3495 | 8.5  | 121315.0 | -1457.0 | 3585 | 8.8  | 124145.3 | -1403.0 | 3675 | 9.6  | 130810.8 | -1421.5 | 3765 | 10.1 | 133059.6 | -1440.0 |
| 3496 | 9.8  | 121344.2 | -1419.2 | 3586 | 10.1 | 124200.6 | -1436.2 | 3676 | 10.1 | 130820.7 | -1411.8 | 3766 | 9.4  | 133132.2 | -1455.5 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3497 | 9.4  | 121401.1 | -1438.0 | 3587 | 6.8  | 124211.2 | -1417.3 | 3677 | 9.9  | 130822.5 | -1428.4 | 3767 | 7.3  | 133134.0 | -1427.9 |
| 3498 | 9.6  | 121429.3 | -1446.5 | 3588 | 9.8  | 124248.3 | -1439.6 | 3678 | 9.5  | 130913.2 | -1458.0 | 3768 | 8.0  | 133148.3 | -1452.3 |
| 3499 | 10.1 | 121440.6 | -1426.5 | 3589 | 9.8  | 124318.0 | -1440.0 | 3679 | 9.0  | 130923.3 | -1457.1 | 3769 | 9.5  | 133156.4 | -1448.0 |
| 3500 | 6.8  | 121448.3 | -1444.7 | 3590 | 9.1  | 124329.4 | -1442.6 | 3680 | 9.7  | 130933.7 | -1445.4 | 3770 | 9.5  | 133213.9 | -1456.0 |
| 3501 | 10.1 | 121459.3 | -1437.7 | 3591 | 9.8  | 124339.2 | -1415.5 | 3681 | 8.5  | 130939.3 | -1430.2 | 3771 | 9.3  | 133256.5 | -1404.8 |
| 3502 | 9.3  | 121507.5 | -1440.0 | 3592 | 8.5  | 124351.0 | -1432.7 | 3682 | 9.2  | 130943.4 | -1441.5 | 3772 | 9.5  | 133301.0 | -1435.1 |
| 3503 | 9.0  | 121514.1 | -1413.6 | 3593 | 8.9  | 124355.1 | -1418.0 | 3683 | 6.7  | 130949.7 | -1446.7 | 3773 | 9.3  | 133305.7 | -1442.0 |
| 3504 | 9.8  | 121520.0 | -1433.2 | 3594 | 9.0  | 124407.9 | -1454.1 | 3684 | 9.2  | 130954.3 | -1432.2 | 3774 | 9.8  | 133325.1 | -1442.1 |
| 3505 | 9.4  | 121529.9 | -1455.9 | 3595 | 9.7  | 124438.6 | -1467.2 | 3685 | 9.8  | 131017.0 | -1418.3 | 3775 | 9.8  | 133338.6 | -1443.2 |
| 3506 | 9.1  | 121550.4 | -1454.8 | 3596 | 7.5  | 124533.2 | -1410.7 | 3686 | 10.1 | 131023.8 | -1412.7 | 3776 | 10.1 | 133355.6 | -1422.0 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3507 | 9.9  | 121609.8 | -1416.3 | 3597 | 9.1  | 124615.5 | -1423.4 | 3687 | 10.1 | 131027.9 | -1400.7 | 3777 | 10.1 | 133402.9 | -1427.8 |
| 3508 | 9.1  | 121632.3 | -1453.2 | 3598 | 10.1 | 124643.4 | -1449.4 | 3688 | 8.3  | 131048.2 | -1411.2 | 3778 | 9.3  | 133417.4 | -1423.1 |
| 3509 | 9.1  | 121704.9 | -1442.0 | 3599 | 9.8  | 124646.0 | -1440.7 | 3689 | 9.8  | 131118.4 | -1442.4 | 3779 | 10.1 | 133439.4 | -1426.3 |
| 3510 | 7.0  | 121829.9 | -1408.5 | 3600 | 9.9  | 124651.6 | -1413.2 | 3690 | 8.6  | 131134.9 | -1448.3 | 3780 | 9.6  | 133448.9 | -1449.1 |
| 3511 | 9.8  | 121831.9 | -1454.1 | 3601 | 9.7  | 124708.6 | -1450.3 | 3691 | 9.2  | 131208.0 | -1451.5 | 3781 | 8.8  | 133458.9 | -1418.5 |
| 3512 | 9.9  | 121849.0 | -1443.6 | 3602 | 9.9  | 124720.1 | -1413.6 | 3692 | 10.1 | 131210.0 | -1402.3 | 3782 | 9.8  | 133503.3 | -1407.8 |
| 3513 | 9.3  | 121901.7 | -1457.6 | 3603 | 9.4  | 124753.3 | -1449.2 | 3693 | 9.4  | 131219.7 | -1420.9 | 3783 | 8.2  | 133507.8 | -1418.0 |
| 3514 | 9.8  | 121902.7 | -1405.5 | 3604 | 9.8  | 124810.5 | -1423.4 | 3694 | 9.1  | 131222.3 | -1441.2 | 3784 | 9.5  | 133515.9 | -1423.0 |
| 3515 | 8.3  | 121903.5 | -1410.5 | 3605 | 6.2  | 124816.1 | -1432.2 | 3695 | 8.8  | 131225.6 | -1409.5 | 3785 | 9.8  | 133558.4 | -1409.8 |
| 3516 | 9.1  | 121937.2 | -1455.0 | 3606 | 9.5  | 124820.2 | -1415.8 | 3696 | 9.3  | 131239.6 | -1459.8 | 3786 | 9.0  | 133614.9 | -1410.6 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3517 | 9.3  | 121943.5 | -1452.1 | 3607 | 9.7  | 124822.1 | -1412.4 | 3697 | 9.5  | 131240.6 | -1457.5 | 3787 | 7.5  | 133634.3 | -1411.4 |
| 3518 | 9.0  | 122001.3 | -1403.1 | 3608 | 7.5  | 124850.0 | -1409.6 | 3698 | 8.2  | 131257.1 | -1400.5 | 3788 | 9.4  | 133636.4 | -1416.9 |
| 3519 | 9.7  | 122010.6 | -1457.6 | 3609 | 9.4  | 124850.4 | -1405.5 | 3699 | 9.3  | 131308.7 | -1433.0 | 3789 | 10.1 | 133639.4 | -1419.7 |
| 3520 | 9.4  | 122025.1 | -1405.5 | 3610 | 9.4  | 124901.4 | -1455.8 | 3700 | 9.5  | 131342.6 | -1455.5 | 3790 | 9.4  | 133709.8 | -1422.5 |
| 3521 | 8.2  | 122035.4 | -1450.6 | 3611 | 10.1 | 124905.2 | -1431.5 | 3701 | 9.8  | 131412.2 | -1434.5 | 3791 | 9.1  | 133712.0 | -1453.6 |
| 3522 | 9.4  | 122052.5 | -1421.4 | 3612 | 10.1 | 124910.7 | -1427.0 | 3702 | 9.3  | 131426.7 | -1402.2 | 3792 | 8.0  | 133722.6 | -1401.8 |
| 3523 | 9.4  | 122053.9 | -1423.8 | 3613 | 8.5  | 124911.0 | -1419.0 | 3703 | 10.1 | 131436.6 | -1439.7 | 3793 | 9.5  | 133807.0 | -1454.6 |
| 3524 | 9.0  | 122103.1 | -1457.8 | 3614 | 9.5  | 125018.8 | -1453.0 | 3704 | 9.6  | 131439.1 | -1436.1 | 3794 | 9.5  | 133820.5 | -1453.1 |
| 3525 | 9.5  | 122203.4 | -1448.4 | 3615 | 7.1  | 125027.2 | -1411.9 | 3705 | 10.1 | 131449.5 | -1414.8 | 3795 | 9.4  | 133821.3 | -1421.9 |
| 3526 | 9.9  | 122207.9 | -1434.9 | 3616 | 10.1 | 125142.7 | -1416.2 | 3706 | 9.8  | 131507.1 | -1458.8 | 3796 | 10.1 | 133826.2 | -1411.2 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3527 | 10.1 | 122216.6 | -1449.1 | 3617 | 9.1  | 125208.8 | -1419.4 | 3707 | 9.4  | 131517.0 | -1459.2 | 3797 | 9.0  | 133852.3 | -1422.8 |
| 3528 | 10.1 | 122221.9 | -1420.7 | 3618 | 9.2  | 125214.9 | -1430.7 | 3708 | 8.4  | 131527.1 | -1429.2 | 3798 | 9.5  | 133856.5 | -1453.7 |
| 3529 | 8.6  | 122252.8 | -1430.8 | 3619 | 9.9  | 125239.8 | -1428.0 | 3709 | 7.5  | 131532.0 | -1409.5 | 3799 | 9.5  | 133930.8 | -1410.5 |
| 3530 | 7.5  | 122417.6 | -1454.8 | 3620 | 9.5  | 125243.3 | -1416.4 | 3710 | 9.9  | 131535.0 | -1420.7 | 3800 | 9.6  | 133940.8 | -1425.9 |
| 3531 | 9.8  | 122422.4 | -1445.7 | 3621 | 9.1  | 125252.5 | -1434.4 | 3711 | 9.2  | 131535.6 | -1437.0 | 3801 | 9.5  | 133956.0 | -1452.5 |
| 3532 | 9.2  | 122438.8 | -1427.9 | 3622 | 9.5  | 125252.1 | -1400.5 | 3712 | 9.5  | 131551.1 | -1455.3 | 3802 | 9.6  | 134012.3 | -1438.6 |
| 3533 | 10.1 | 122444.9 | -1449.2 | 3623 | 9.7  | 125255.0 | -1441.5 | 3713 | 8.2  | 131558.0 | -1421.4 | 3803 | 9.6  | 134038.9 | -1452.9 |
| 3534 | 9.3  | 122500.6 | -1443.5 | 3624 | 9.5  | 125261.1 | -1435.4 | 3714 | 8.9  | 131630.6 | -1426.4 | 3804 | 10.1 | 134043.7 | -1417.0 |
| 3535 | 10.1 | 122529.7 | -1444.7 | 3625 | 9.2  | 125265.1 | -1416.2 | 3715 | 9.5  | 131640.0 | -1424.5 | 3805 | 10.1 | 134103.2 | -1422.6 |
| 3536 | 9.8  | 122550.7 | -1431.5 | 3626 | 9.0  | 125516.4 | -1434.9 | 3716 | 9.5  | 131713.1 | -1432.1 | 3806 | 8.3  | 134106.1 | -1400.1 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3537 | 9.5  | 122610.6 | -1435.1 | 3627 | 9.4  | 125525.3 | -1422.4 | 3717 | 7.8  | 131720.2 | -1452.4 | 3807 | 9.7  | 134121.2 | -1430.8 |
| 3538 | 9.3  | 122647.2 | -1415.1 | 3628 | 10.1 | 125529.7 | -1440.3 | 3718 | 9.8  | 131742.2 | -1414.2 | 3808 | 8.2  | 134133.2 | -1402.0 |
| 3539 | 9.2  | 122711.1 | -1428.0 | 3629 | 9.1  | 125533.1 | -1429.3 | 3719 | 9.1  | 131745.0 | -1433.2 | 3809 | 9.8  | 134142.4 | -1444.9 |
| 3540 | 9.4  | 122722.1 | -1437.5 | 3630 | 10.1 | 125533.5 | -1450.0 | 3720 | 10.1 | 131806.5 | -1432.8 | 3810 | 9.4  | 134206.8 | -1439.6 |
| 3541 | 8.5  | 122850.5 | -1436.7 | 3631 | 9.7  | 125533.9 | -1418.9 | 3721 | 9.0  | 131831.9 | -1401.7 | 3811 | 9.0  | 134209.6 | -1410.9 |
| 3542 | 9.8  | 122858.5 | -1447.6 | 3632 | 9.2  | 125632.2 | -1453.0 | 3722 | 9.9  | 131910.4 | -1412.7 | 3812 | 9.8  | 134253.0 | -1405.0 |
| 3543 | 7.3  | 122918.4 | -1446.4 | 3633 | 9.4  | 1256     |         |      |      |          |         |      |      |          |         |



3837 9.1 135015.8 -1412.2  
 3838 9.5 135040.2 -1444.8  
 3839 9.5 135041.9 -1433.9  
 3840 9.5 135051.6 -1401.4  
 3841 9.8 135102.7 -1451.5  
 3842 9.8 135110.9 -1415.5  
 3843 9.5 135134.4 -1411.3  
 3844 9.3 135146.1 -1458.1  
 3845 9.0 135149.8 -1438.9  
 3846 7.8 135238.9 -1414.4

3847 9.5 135249.0 -1442.3  
 3848 9.6 135313.5 -1458.8  
 3849 9.0 135321.4 -1409.4  
 3850 9.9 135340.6 -1447.1  
 3851 9.5 135345.7 -1437.9  
 3852 9.3 135343.3 -1441.2  
 3853 9.8 135315.1 -1453.2  
 3854 9.4 135416.0 -1456.6  
 3855 10.1 135504.1 -1403.3  
 3856 9.9 135506.0 -1455.9

3857 9.4 135527.2 -1440.5  
 3858 10.1 135533.8 -1433.5  
 3859 9.9 135536.2 -1416.0  
 3860 8.9 135609.2 -1419.7  
 3861 8.5 135616.1 -1447.0  
 3862 9.1 135635.7 -1415.0  
 3863 6.5 135637.2 -1416.6  
 3864 9.3 135639.0 -1454.2  
 3865 10.1 135712.0 -1446.3  
 3866 8.9 135722.9 -1424.9

3867 7.5 135723.2 -1409.0  
 3868 9.1 135757.1 -1432.7  
 3869 9.3 135810.9 -1455.2  
 3870 9.2 135823.1 -1433.9  
 3871 9.3 135833.1 -1429.8  
 3872 9.3 135838.4 -1448.9  
 3873 9.8 135840.8 -1444.4  
 3874 9.3 135847.0 -1450.1  
 3875 9.9 135918.7 -1433.1  
 3876 10.1 135927.0 -1403.8

3877 10.1 135943.6 -1428.5  
 3878 10.1 135946.8 -1415.9  
 3879 9.8 135952.6 -1427.4  
 3880 8.6 140004.1 -1434.5  
 3881 9.5 140038.0 -1427.2  
 3882 9.5 140043.9 -1450.2  
 3883 9.6 140115.8 -1452.6  
 3884 9.7 140118.7 -1405.5  
 3885 9.2 140132.8 -1453.7  
 3886 9.3 140141.8 -1404.2

3887 9.7 140148.0 -1452.6  
 3888 9.2 140216.5 -1434.1  
 3889 9.5 140227.9 -1441.2  
 3890 10.1 140236.6 -1411.3  
 3891 9.0 140257.2 -1407.0  
 3892 9.2 140300.0 -1430.5  
 3893 8.5 140320.4 -1431.5  
 3894 9.8 140345.8 -1453.8  
 3895 9.8 140357.5 -1455.7  
 3896 9.0 140405.4 -1436.0

3897 9.8 140415.1 -1438.9  
 3898 9.0 140438.0 -1410.6  
 3899 9.3 140504.0 -1400.7  
 3900 8.3 140519.1 -1456.7  
 3901 9.0 140521.0 -1455.8  
 3902 9.3 140628.8 -1440.0  
 3903 9.5 140655.9 -1439.4  
 3904 9.1 140709.5 -1413.0  
 3905 9.7 140716.0 -1451.9  
 3906 10.1 140718.5 -1413.8

3907 9.3 140736.9 -1407.8  
 3908 9.7 140745.3 -1429.7  
 3909 9.8 140752.8 -1430.1  
 3910 8.0 140756.4 -1425.9  
 3911 9.8 140759.9 -1432.5  
 3912 9.8 140808.3 -1436.2  
 3913 10.1 140821.0 -1427.9  
 3914 9.8 140946.4 -1448.5  
 3915 9.1 141002.2 -1403.4  
 3916 9.6 141007.3 -1435.4

3917 8.5 141007.3 -1401.9  
 3918 8.0 141013.1 -1414.2  
 3919 9.2 141015.9 -1416.9  
 3920 9.8 141113.9 -1450.5  
 3921 9.8 141118.4 -1401.7  
 3922 8.8 141119.7 -1434.0  
 3923 9.6 141150.3 -1409.8  
 3924 9.1 141216.4 -1450.5  
 3925 9.8 141224.8 -1405.0  
 3926 9.3 141225.5 -1443.3

3927 9.8 141249.9 -1401.5  
 3928 9.3 141335.7 -1433.2  
 3929 9.5 141336.2 -1413.1  
 3930 9.4 141355.8 -1431.3  
 3931 9.6 141417.7 -1404.4  
 3932 9.4 141419.4 -1446.7  
 3933 9.5 141420.2 -1443.3  
 3934 9.5 141427.6 -1453.1  
 3935 9.8 141437.1 -1455.4  
 3936 9.8 141453.6 -1452.3

3937 9.8 141455.1 -1436.1  
 3938 10.1 141456.1 -1433.9  
 3939 10.1 141459.1 -1459.9  
 3940 10.1 141525.0 -1403.2  
 3941 9.5 141527.5 -1438.2  
 3942 10.1 141532.2 -1405.0  
 3943 9.1 141552.6 -1435.0  
 3944 8.8 141557.4 -1417.7  
 3945 9.5 141612.5 -1456.7  
 3946 9.7 141621.4 -1401.4

3947 9.5 141633.5 -1404.5  
 3948 8.0 141636.7 -1408.1  
 3949 8.0 141644.7 -1403.0  
 3950 9.3 141657.2 -1409.2  
 3951 8.8 141713.0 -1403.0  
 3952 9.4 141716.1 -1411.4  
 3953 9.8 141818.6 -1416.5  
 3954 9.5 141831.5 -1427.8  
 3955 9.5 141832.0 -1401.2  
 3956 9.9 141838.1 -1414.1

3957 9.2 141909.9 -1425.5  
 3958 8.8 141920.3 -1438.8  
 3959 7.0 141927.6 -1411.1  
 3960 9.4 141941.2 -1430.2  
 3961 9.2 142009.5 -1422.5  
 3962 9.5 142015.0 -1435.7  
 3963 9.7 142042.8 -1431.7  
 3964 8.2 142116.5 -1444.4  
 3965 8.8 142135.9 -1422.1  
 3966 9.8 142154.3 -1432.1

3967 10.1 142211.9 -1453.6  
 3968 7.3 142218.3 -1436.1  
 3969 9.7 142317.9 -1455.5  
 3970 8.0 142320.4 -1458.9  
 3971 10.1 142400.9 -1409.8  
 3972 9.8 142403.9 -1441.3  
 3973 8.9 142424.7 -1445.3  
 3974 9.6 142429.4 -1416.9  
 3975 9.4 142433.7 -1444.6  
 3976 9.5 142508.9 -1421.9

3977 10.1 142509.9 -1402.5  
 3978 8.8 142532.3 -1421.7  
 3979 9.2 142542.7 -1428.0  
 3980 10.1 142549.9 -1439.7  
 3981 10.1 142554.5 -1449.9  
 3982 9.8 142604.7 -1444.2  
 3983 9.5 142630.5 -1409.6  
 3984 9.5 142656.0 -1409.9  
 3985 9.8 142713.6 -1403.7  
 3986 9.3 142733.4 -1447.7

3987 9.8 142812.9 -1454.0  
 3988 9.1 142821.5 -1422.1  
 3989 9.7 142841.9 -1400.2  
 3990 9.8 142855.0 -1421.7  
 3991 9.8 142856.4 -1448.5  
 3992 9.4 142900.8 -1402.3  
 3993 9.2 142911.4 -1453.0  
 3994 9.5 142944.5 -1407.6  
 3995 10.1 142958.2 -1446.7  
 3996 8.5 143015.0 -1419.5

3997 9.3 143036.0 -1408.2  
 3998 9.8 143036.3 -1412.8  
 3999 9.6 143039.4 -1459.2  
 4000 9.8 143043.4 -1425.7  
 4001 9.8 143046.3 -1458.0  
 4002 9.0 143121.5 -1402.3  
 4003 8.5 143122.4 -1438.5  
 4004 9.5 143226.1 -1440.0  
 4005 9.8 143233.6 -1401.7  
 4006 8.2 143255.7 -1441.7

4007 9.6 143301.4 -1408.8  
 4008 9.4 143317.8 -1452.5  
 4009 9.5 143441.0 -1431.3  
 4010 9.8 143452.9 -1446.8  
 4011 9.3 143531.2 -1439.0  
 4012 9.6 143543.7 -1427.2  
 4013 10.1 143603.8 -1408.2  
 4014 9.9 143615.1 -1424.7  
 4015 9.5 143636.9 -1413.8  
 4016 10.1 143640.9 -1416.2

4017 9.6 143649.9 -1430.6  
 4018 9.2 143654.3 -1415.3  
 4019 9.9 143707.6 -1405.1  
 4020 9.8 143721.8 -1447.8  
 4021 9.0 143726.7 -1453.4  
 4022 8.5 143752.8 -1422.7  
 4023 6.2 143758.2 -1450.6  
 4024 9.8 143801.3 -1418.5  
 4025 9.6 143820.1 -1437.0  
 4026 10.1 143830.2 -1447.6

4027 9.0 143835.9 -1427.5  
 4028 9.5 144001.3 -1406.5  
 4029 9.7 144009.4 -1449.8  
 4030 9.8 144020.3 -1454.9  
 4031 8.8 144025.5 -1426.8  
 4032 10.1 144033.3 -1450.9  
 4033 9.7 144051.8 -1448.6  
 4034 9.3 144100.6 -1406.2  
 4035 9.2 144117.1 -1438.1  
 4036 8.7 144118.3 -1444.1

4037 10.1 144123.8 -1428.8  
 4038 8.9 144202.4 -1445.4  
 4039 7.0 144205.6 -1455.0  
 4040 8.0 144216.7 -1444.4  
 4041 9.4 144226.2 -1412.6  
 4042 9.8 144233.5 -1457.7  
 4043 9.8 144241.8 -1443.1  
 4044 9.7 144251.0 -1439.7  
 4045 7.5 144304.5 -1427.8  
 4046 10.1 144306.0 -1436.6

4047 9.4 144306.7 -1402.6  
 4048 9.4 144311.0 -1453.5  
 4049 10.1 144318.8 -1437.4  
 4050 6.2 144335.0 -1429.1  
 4051 9.0 144347.6 -1423.9  
 4052 8.2 144350.0 -1437.5  
 4053 9.5 144404.7 -1400.8  
 4054 9.3 144420.5 -1452.4  
 4055 7.7 144431.4 -1447.4  
 4056 10.1 144434.1 -1407.2

4057 9.5 144455.0 -1421.7  
 4058 9.4 144505.1 -1421.7  
 4059 9.5 144525.0 -1445.0  
 4060 10.1 144531.3 -1422.2  
 4061 5.8 144543.4 -1438.7  
 4062 5.5 144559.6 -1412.5  
 4063 9.8 144607.5 -1435.6  
 4064 9.1 144617.9 -1450.0  
 4065 9.5 144620.4 -1430.2  
 4066 9.6 144644.6 -1413.4

4067 9.4 144709.6 -1442.6  
 4068 9.6 144714.3 -1439.2  
 4069 8.2 144731.6 -1445.0  
 4070 8.5 144734.6 -1408.5  
 4071 9.3 144830.4 -1454.1  
 4072 10.1 144856.5 -1405.3  
 4073 9.1 144856.9 -1427.8  
 4074 9.4 144913.8 -1437.0  
 4075 9.6 144917.7 -1405.6  
 4076 9.8 144921.4 -1447.1

4077 9.0 144928.0 -1419.2  
 4078 9.6 144932.9 -1429.7  
 4079 9.4 144957.3 -1436.2  
 4080 9.6 145041.3 -1422.5  
 4081 9.8 145041.9 -1411.9  
 4082 8.1 145050.8 -1451.1  
 4083 9.2 145123.6 -1455.4  
 4084 10.1 145209.3 -1422.0  
 4085 8.4 145213.4 -1409.0  
 4086 9.0 145225.7 -1451.5

4087 8.3 145254.2 -1426.8  
 4088 9.8 145204.7 -1457.3  
 4089 9.8 145308.3 -1424.6  
 4090 10.1 145308.9 -1416.9  
 4091 9.1 145322.6 -1412.5  
 4092 9.5 145401.3 -1417.5  
 4093 8.7 145421.1 -1433.6  
 4094 10.1 145430.7 -1438.7  
 4095 8.7 145439.1 -1413.3  
 4096 8.2 145444.8 -1428.2

4097 9.6 145538.6 -1425.4  
 4098 9.5 145540.2 -1427.1  
 4099 9.4 145552.3 -1407.3  
 4100 9.5 145552.7 -1442.5  
 4101 9.1 145559.1 -1431.8  
 4102 7.8 145607.1 -1453.3  
 4103 9.4 145607.1 -1445.3  
 4104 9.5 145610.0 -1436.3  
 4105 8.0 145611.2 -1455.6  
 4106 9.3 145612.5 -1443.7

4107 9.2 145621.4 -1428.7  
 4108 10.1 145626.5 -1444.3  
 4109 8.0 145642.7 -1425.7  
 4110 9.1 145654.8 -1408.9  
 4111 9.8 145720.9 -1430.1  
 4112 9.8 145721.2 -1435.3  
 4113 9.6 145722.5 -1410.9  
 4114 10.1 145732.7 -1439.1  
 4115 9.2 145750.1 -1445.9  
 4116 9.8 145810.2 -1445.3

4117 10.1 145835.2 -1442.7  
 4118 9.0 145856.2 -1405.8  
 4119 8.4 145906.0 -1403.2  
 4120 7.7 145922.5 -1451.3  
 4121 8.0 145924.7 -1406.9  
 4122 9.5 145954.6 -1433.2  
 4123 7.8 145957.6 -1401.7  
 4124 9.5 150026.5 -1456.6  
 4125 9.3 150031.8 -1451.2  
 4126 9.3 150047.7 -1418.6

4127 9.4 150124.9 -1405.0  
 4128 9.5 150125.0 -1426.4  
 4129 9.1 150125.6 -1440.0  
 4130 9.2 150129.2 -1403.8  
 4131 9.8 150142.0 -1442.3  
 4132 9.1 150149.6 -1410.1  
 4133 9.6 150151.6 -1419.1  
 4134 9.8 150200.4 -1433.8  
 4135 9.7 150207.1 -1408.0  
 4136 10.1 150219.0 -1452.7

4137 10.1 150243.6 -1408.5  
 4138 9.5 150248.5 -1427.7  
 4139 9.1 150331.3 -1410.6  
 4140 8.8 150344.5 -1440.8  
 4141 9.5 150358.0 -1424.3  
 4142 9.4 150402.0 -1435.4  
 4143 10.1 150410.4 -1434.9  
 4144 9.4 150413.6 -1432.5  
 4145 8.3 150422.2 -1401.4  
 4146 9.9 150428.1 -1415.0

4147 7.9 150440.7 -1408.8  
 4148 9.5 150445.0 -1434.6  
 4149 9.4 150455.5 -1407.6  
 4150 10.1 150509.5 -1420.0  
 4151 9.1 150537.6 -1414.2  
 4152 9.9 150559.9 -1435.0  
 4153 9.4 150618.6 -1453.1  
 4154 9.9 150643.4 -1441.8  
 4155 8.8 150704.5 -1436.7  
 4156 9.3 150718.3 -1455.8

4157 9.5 150727.4 -1431.5  
 4158 9.4 150729.8 -1407.6  
 4159 10.1 150740.5 -1417.1  
 4160 8.2 150742.8 -1409.0  
 4161 9.0 150801.9 -1429.7  
 4162 9.8 150807.4 -1458.5  
 4163 9.4 150813.4 -1427.0  
 4164 9.9 150841.8 -1415.8  
 4165 8.7 150857.3 -1403.6  
 4166 10.1 150907.5 -1401.4

4167 9.3 150939.8 -1444.3  
 4168 9.0 150955.9 -1438.1  
 4169 9.8 151009.4 -1401.0  
 4170 9.5 151033.3 -1430.5  
 4171 9.0 151056.3 -1421.5  
 4172 9.5 151116.7 -1420.6  
 4173 10.1 151137.0 -1434.4  
 4174 9.6 151143.5 -1403.7  
 4175 8.6 151147.1 -1449.3  
 4176 9.6 151209.2 -1409.9

4177 9.4 151214.4 -1439.5  
 4178 9.5 151222.4 -1438.2  
 4179 9.5 151225.2 -1451.7  
 4180 7.5 151234.2 -1412.6  
 4181 10.1 151248.8 -1420.4  
 4182 7.3 151252.2 -1450.6  
 4183 9.8 151327.2 -1420.0  
 4184 8.2 151345.3 -1437.9  
 4185 9.0 151355.7 -1433.2  
 4186 9.1 151432.7 -1421.4

4187 9.5 151456.1 -1453.5  
 4188 6.3 151457.3 -1436.3  
 4189 9.8 151508.1 -1408.2  
 4190 9.4 151518.3 -1438.7  
 4191 10.1 151524.0 -1439.5  
 4192 9.5 151559.8 -1403.1  
 4193 8.7 151600.1 -1452.5  
 4194 9.1 151613.1 -1410.2  
 4195 9.4 151635.7 -1426.5  
 4196 9.3 151654.7 -1441.8



|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|-----------|------|------|----------|---------|------|------|----------|---------|
| 4197 | 9.8  | 151717.6 | -1422.3 | 4287 | 9.6  | 154133.0 | -1412.5   | 4377 | 9.4  | 160631.1 | -1417.5 | 4467 | 8.5  | 163112.2 | -1437.8 |
| 4198 | 9.5  | 151718.5 | -1458.2 | 4288 | 9.1  | 154139.1 | -1422.4   | 4378 | 9.5  | 160642.2 | -1429.9 | 4468 | 9.5  | 163113.2 | -1430.7 |
| 4199 | 8.3  | 151730.6 | -1455.8 | 4289 | 9.6  | 154217.0 | -1418.4   | 4379 | 8.0  | 160649.1 | -1416.0 | 4469 | 8.8  | 163153.1 | -1420.6 |
| 4200 | 9.2  | 151803.8 | -1448.5 | 4290 | 9.0  | 154328.0 | -1419.7   | 4380 | 9.5  | 160706.6 | -1420.3 | 4470 | 8.7  | 163256.6 | -1452.6 |
| 4201 | 9.6  | 151833.6 | -1443.4 | 4291 | 8.0  | 154330.0 | -1425.6   | 4381 | 9.5  | 160722.8 | -1444.8 | 4471 | 9.1  | 163259.2 | -1427.3 |
| 4202 | 10.1 | 151834.3 | -1456.1 | 4292 | 9.5  | 154344.4 | -1407.2   | 4382 | 9.8  | 160724.3 | -1404.8 | 4472 | 9.0  | 163322.0 | -1409.5 |
| 4203 | 9.5  | 151854.3 | -1444.1 | 4293 | 8.5  | 154351.0 | -1411.7   | 4383 | 6.3  | 160740.4 | -1428.8 | 4473 | 9.5  | 163337.1 | -1427.5 |
| 4204 | 9.6  | 151859.8 | -1445.9 | 4294 | 9.0  | 154402.5 | -1414.5   | 4384 | 9.2  | 160754.1 | -1430.8 | 4474 | 9.5  | 163441.2 | -1457.4 |
| 4205 | 9.4  | 151901.8 | -1436.9 | 4295 | 9.6  | 154403.5 | -1412.8   | 4385 | 9.5  | 160755.1 | -1426.7 | 4475 | 8.2  | 163510.2 | -1435.4 |
| 4206 | 9.4  | 151932.0 | -1452.4 | 4296 | 9.8  | 154415.9 | -1422.4   | 4386 | 9.3  | 160845.0 | -1406.4 | 4476 | 8.0  | 163524.2 | -1458.3 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 4207 | 8.9  | 151937.0 | -1454.3 | 4297 | 9.4  | 154450.0 | -1433.1   | 4387 | 10.1 | 160859.3 | -1459.2 | 4477 | 9.7  | 163625.8 | -1429.8 |
| 4208 | 7.3  | 151937.7 | -1426.6 | 4298 | 7.8  | 154510.5 | -1416.5   | 4388 | 8.8  | 160901.2 | -1441.7 | 4478 | 9.8  | 163658.1 | -1434.4 |
| 4209 | 9.1  | 152023.0 | -1414.1 | 4299 | 9.7  | 154523.7 | -1446.0   | 4389 | 7.8  | 160909.2 | -1457.5 | 4479 | 9.3  | 163707.1 | -1410.2 |
| 4210 | 9.5  | 152023.0 | -1443.3 | 4300 | 9.0  | 154556.0 | -1416.9   | 4390 | 9.4  | 160911.0 | -1417.6 | 4480 | 9.2  | 163714.5 | -1425.8 |
| 4211 | 10.1 | 152027.0 | -1454.5 | 4301 | 9.8  | 154557.0 | -1414.2   | 4391 | 9.6  | 160952.1 | -1424.7 | 4481 | 9.6  | 163734.1 | -1425.3 |
| 4212 | 9.1  | 152032.9 | -1445.8 | 4302 | 9.5  | 154559.1 | -1432.6   | 4392 | 9.8  | 160954.2 | -1449.2 | 4482 | 9.5  | 163735.0 | -1429.7 |
| 4213 | 9.1  | 152054.2 | -1436.4 | 4303 | 9.4  | 154604.7 | -1403.4   | 4393 | 9.8  | 161003.0 | -1415.4 | 4483 | 9.7  | 163915.6 | -1437.8 |
| 4214 | 9.4  | 152055.0 | -1413.3 | 4304 | 9.6  | 154606.4 | -1445.2   | 4394 | 9.5  | 161016.5 | -1413.4 | 4484 | 9.7  | 163917.2 | -1421.8 |
| 4215 | 9.8  | 152127.2 | -1447.3 | 4305 | 9.4  | 154635.5 | -1423.9   | 4395 | 9.5  | 161024.7 | -1447.0 | 4485 | 9.4  | 163950.7 | -1428.5 |
| 4216 | 9.6  | 152132.6 | -1400.8 | 4306 | 9.4  | 154642.4 | -1411.2   | 4396 | 9.3  | 161028.4 | -1408.0 | 4486 | 6.1  | 164013.6 | -1438.5 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 4217 | 10.1 | 152149.1 | -1436.3 | 4307 | 9.6  | 154704.4 | -1401.9   | 4397 | 10.1 | 161049.0 | -1416.6 | 4487 | 9.6  | 164015.7 | -1447.9 |
| 4218 | 8.5  | 152153.2 | -1418.3 | 4308 | 9.5  | 154705.4 | -1403.8   | 4398 | 6.3  | 161050.0 | -1430.6 | 4488 | 10.1 | 164041.5 | -1419.8 |
| 4219 | 9.3  | 152247.1 | -1403.9 | 4309 | 9.2  | 154717.3 | -1436.6   | 4399 | 9.3  | 161135.3 | -1429.8 | 4489 | 9.1  | 164133.6 | -1417.8 |
| 4220 | 9.1  | 152255.2 | -1407.5 | 4310 | 9.4  | 154730.0 | -1435.0   | 4400 | 9.8  | 161138.7 | -1408.0 | 4490 | 9.2  | 164150.2 | -1436.4 |
| 4221 | 10.1 | 152309.5 | -1442.4 | 4311 | 9.0  | 154732.6 | -1435.6   | 4401 | 8.4  | 161141.6 | -1417.1 | 4491 | 9.7  | 164158.2 | -1422.3 |
| 4222 | 9.4  | 152314.2 | -1444.8 | 4312 | 8.0  | 154736.4 | -1443.5   | 4402 | 9.7  | 161304.1 | -1403.2 | 4492 | 7.2  | 164350.5 | -1433.3 |
| 4223 | 9.5  | 152348.7 | -1435.1 | 4313 | 9.1  | 154818.4 | -1421.5   | 4403 | 9.7  | 161310.2 | -1413.2 | 4493 | 9.7  | 164357.4 | -1429.3 |
| 4224 | 9.6  | 152357.3 | -1440.7 | 4314 | 6.7  | 154824.5 | -1424.1   | 4404 | 9.6  | 161320.4 | -1443.5 | 4494 | 8.1  | 164401.9 | -1407.2 |
| 4225 | 9.4  | 152411.8 | -1430.5 | 4315 | 9.4  | 154840.1 | -1403.2   | 4405 | 10.1 | 161339.7 | -1427.7 | 4495 | 9.0  | 164435.9 | -1406.5 |
| 4226 | 9.5  | 152416.7 | -1400.8 | 4316 | 9.3  | 154847.0 | -1454.7   | 4406 | 9.8  | 161400.0 | -1453.5 | 4496 | 9.5  | 164517.4 | -1439.0 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 4227 | 8.7  | 152457.8 | -1454.3 | 4317 | 9.2  | 154858.6 | -1445.6   | 4407 | 9.4  | 161402.9 | -1457.1 | 4497 | 9.3  | 164600.5 | -1400.0 |
| 4228 | 9.4  | 152510.3 | -1450.0 | 4318 | 9.5  | 154923.6 | -1449.8   | 4408 | 9.6  | 161407.2 | -1424.2 | 4498 | 8.3  | 164605.5 | -1406.9 |
| 4229 | 8.6  | 152537.7 | -1425.7 | 4319 | 9.5  | 154930.2 | -1403.8   | 4409 | 9.4  | 161505.4 | -1401.9 | 4499 | 8.8  | 164619.2 | -1420.6 |
| 4230 | 9.1  | 152543.6 | -1411.9 | 4320 | 10.1 | 154950.0 | -1434.2   | 4410 | 9.2  | 161509.3 | -1428.0 | 4500 | 9.1  | 164632.3 | -1456.8 |
| 4231 | 9.5  | 152553.4 | -1437.7 | 4321 | 8.3  | 155000.7 | -1402.0   | 4411 | 8.9  | 161510.8 | -1422.1 | 4501 | 9.5  | 164657.9 | -1447.9 |
| 4232 | 8.3  | 152600.4 | -1422.2 | 4322 | 9.3  | 155011.0 | -1426.2   | 4412 | 9.6  | 161516.9 | -1441.7 | 4502 | 9.5  | 164728.2 | -1440.4 |
| 4233 | 9.7  | 152609.5 | -1402.2 | 4323 | 8.7  | 155023.1 | -1449.1   | 4413 | 9.8  | 161531.2 | -1442.1 | 4503 | 9.8  | 164807.8 | -1452.1 |
| 4234 | 9.2  | 152611.2 | -1458.9 | 4324 | 9.5  | 155135.4 | -1412.0   | 4414 | 9.5  | 161539.7 | -1424.5 | 4504 | 9.0  | 164827.3 | -1430.3 |
| 4235 | 9.3  | 152631.1 | -1409.1 | 4325 | 9.5  | 155142.6 | -1441.6   | 4415 | 9.9  | 161546.8 | -1446.0 | 4505 | 9.5  | 164920.7 | -1455.2 |
| 4236 | 9.8  | 152638.0 | -1457.9 | 4326 | 9.5  | 155151.4 | -1440.7   | 4416 | 10.1 | 161604.3 | -1428.8 | 4506 | 9.1  | 164946.9 | -1436.4 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 4237 | 4.0  | 152725.6 | -1418.1 | 4327 | 9.5  | 155158.0 | -1403.8   | 4417 | 8.6  | 161609.9 | -1443.7 | 4507 | 6.9  | 164955.8 | -1408.8 |
| 4238 | 9.4  | 152727.1 | -1419.1 | 4328 | 9.3  | 155158.6 | -1415.3   | 4418 | 9.4  | 161613.8 | -1448.6 | 4508 | 8.8  | 165010.7 | -1432.4 |
| 4239 | 9.5  | 152738.0 | -1416.1 | 4329 | 7.7  | 155254.7 | -1400.5   | 4419 | 9.8  | 161656.3 | -1400.2 | 4509 | 6.2  | 165027.3 | -1428.6 |
| 4240 | 9.8  | 152755.6 | -1420.3 | 4330 | 9.5  | 155302.9 | -1429.3   | 4420 | 9.8  | 161727.3 | -1402.0 | 4510 | 8.4  | 165043.9 | -1447.8 |
| 4241 | 9.4  | 152832.1 | -1417.6 | 4331 | 9.4  | 155316.0 | -1445.9   | 4421 | 10.1 | 161747.6 | -1451.7 | 4511 | 10.1 | 165058.0 | -1440.8 |
| 4242 | 9.5  | 152850.0 | -1430.6 | 4332 | 9.5  | 155319.6 | -1421.2   | 4422 | 9.5  | 161751.7 | -1444.5 | 4512 | 8.6  | 165107.1 | -1430.5 |
| 4243 | 9.5  | 152908.9 | -1410.2 | 4333 | 9.8  | 155319.8 | -1412.1   | 4423 | 10.1 | 161817.0 | -1420.2 | 4513 | 9.7  | 165110.4 | -1433.1 |
| 4244 | 9.3  | 152915.6 | -1407.7 | 4334 | 9.0  | 155325.6 | -1448.5   | 4424 | 9.5  | 161839.3 | -1448.4 | 4514 | 9.7  | 165135.0 | -1414.9 |
| 4245 | 8.6  | 152928.1 | -1415.1 | 4335 | 9.7  | 155415.4 | -1453.2   | 4425 | 8.9  | 161940.7 | -1443.7 | 4515 | 9.5  | 165151.3 | -1403.6 |
| 4246 | 10.1 | 152940.5 | -1446.7 | 4336 | 9.4  | 155434.8 | -1456.8   | 4426 | 9.7  | 162022.6 | -1400.8 | 4516 | 9.3  | 165153.4 | -1427.6 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 4247 | 7.5  | 152955.0 | -1402.8 | 4337 | 9.5  | 155441.3 | -1409.0   | 4427 | 10.1 | 162026.3 | -1449.2 | 4517 | 9.8  | 165154.7 | -1426.8 |
| 4248 | 9.5  | 153005.2 | -1434.1 | 4338 | 9.7  | 155512.9 | -1428.9   | 4428 | 8.3  | 162055.3 | -1421.5 | 4518 | 9.5  | 165226.2 | -1443.8 |
| 4249 | 9.0  | 153016.7 | -1443.7 | 4339 | 8.7  | 155539.6 | -1442.7   | 4429 | 9.4  | 162100.6 | -1435.5 | 4519 | 9.5  | 165237.0 | -1418.2 |
| 4250 | 7.0  | 153024.3 | -1401.9 | 4340 | 9.8  | 155543.2 | -1434.3   | 4430 | 8.6  | 162112.4 | -1445.4 | 4520 | 9.5  | 165245.1 | -1410.8 |
| 4251 | 9.5  | 153105.1 | -1418.1 | 4341 | 8.5  | 155632.8 | -1430.8   | 4431 | 8.5  | 162128.6 | -1416.1 | 4521 | 9.6  | 165248.1 | -1407.0 |
| 4252 | 9.5  | 153117.5 | -1419.1 | 4342 | 9.5  | 155636.3 | -1421.5   | 4432 | 9.8  | 162128.8 | -1440.5 | 4522 | 9.2  | 165339.5 | -1431.0 |
| 4253 | 10.1 | 153135.8 | -1422.5 | 4343 | 8.7  | 155703.3 | -1441.4   | 4433 | 5.5  | 162135.5 | -1413.7 | 4523 | 9.7  | 165359.4 | -1407.2 |
| 4254 | 9.4  | 153136.5 | -1426.1 | 4344 | 9.3  | 155721.2 | -1406.2   | 4434 | 8.3  | 162220.5 | -1413.5 | 4524 | 9.3  | 165404.2 | -1454.0 |
| 4255 | 9.2  | 153152.4 | -1448.0 | 4345 | 9.5  | 155722.0 | -1432.0   | 4435 | 8.5  | 162233.5 | -1453.8 | 4525 | 9.7  | 165411.7 | -1438.2 |
| 4256 | 9.2  | 153212.9 | -1403.2 | 4346 | 9.8  | 155749.8 | -1429.2   | 4436 | 9.1  | 162228.5 | -1412.7 | 4526 | 9.5  | 165439.1 | -1457.0 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 4257 | 9.5  | 153213.3 | -1429.8 | 4347 | 9.7  | 155758.6 | -1442.7   | 4437 | 9.0  | 162238.5 | -1427.8 | 4527 | 8.8  | 165516.0 | -1424.4 |
| 4258 | 9.2  | 153232.1 | -1402.0 | 4348 | 9.5  | 155814.2 | -1452.0   | 4438 | 9.3  | 162255.8 | -1408.4 | 4528 | 8.3  | 165538.4 | -1404.7 |
| 4259 | 9.5  | 153238.9 | -1436.5 | 4349 | 9.3  | 155814.6 | -1450.0   | 4439 | 9.4  | 162356.4 | -1419.9 | 4529 | 9.9  | 165546.7 | -1426.1 |
| 4260 | 8.8  | 153255.2 | -1421.2 | 4350 | 9.9  | 155909.1 | -1400.2   | 4440 | 9.9  | 162452.0 | -1423.6 | 4530 | 9.8  | 165546.7 | -1458.0 |
| 4261 | 9.4  | 153307.7 | -1429.4 | 4351 | 8.8  | 155916.2 | -1421.9   | 4441 | 9.8  | 162517.3 | -1426.6 | 4531 | 8.6  | 165551.1 | -1443.3 |
| 4262 | 9.5  | 153418.9 | -1437.6 | 4352 | 10.1 | 155933.0 | -1403.2   | 4442 | 8.8  | 162526.5 | -1459.3 | 4532 | 9.2  | 165601.5 | -1420.9 |
| 4263 | 9.6  | 153435.1 | -1441.1 | 4353 | 9.5  | 155936.9 | -1439.2</ |      |      |          |         |      |      |          |         |



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 4557 | 9.5 | 170127.1 | -1441.3 | 4647 | 9.3 | 171836.1 | -1409.8 | 4737 | 8.7 | 173457.6 | -1455.8 | 4827 | 9.5 | 174332.9 | -1457.1 |
| 4558 | 9.4 | 170131.0 | -1405.2 | 4648 | 10. | 171850.0 | -1421.8 | 4738 | 9.8 | 173504.8 | -1453.1 | 4828 | 8.5 | 174356.7 | -1430.2 |
| 4559 | 9.5 | 170149.8 | -1435.2 | 4649 | 9.8 | 171852.4 | -1436.5 | 4739 | 9.0 | 173512.6 | -1453.1 | 4829 | 10. | 174320.6 | -1447.9 |
| 4560 | 9.2 | 170152.8 | -1447.0 | 4650 | 8.3 | 171944.3 | -1408.5 | 4740 | 9.6 | 173513.9 | -1443.9 | 4830 | 9.5 | 174320.7 | -1449.4 |
| 4561 | 9.4 | 170153.7 | -1421.3 | 4651 | 9.4 | 172017.1 | -1452.4 | 4741 | 9.3 | 173514.5 | -1427.5 | 4831 | 9.7 | 174332.2 | -1451.6 |
| 4562 | 9.7 | 170242.1 | -1433.2 | 4652 | 9.4 | 172019.0 | -1401.6 | 4742 | 9.8 | 173535.9 | -1415.3 | 4832 | 9.8 | 175014.4 | -1427.5 |
| 4563 | 9.2 | 170254.0 | -1449.1 | 4653 | 9.2 | 172035.5 | -1418.6 | 4743 | 9.0 | 173550.9 | -1421.3 | 4833 | 9.0 | 175020.2 | -1442.0 |
| 4564 | 9.4 | 170320.1 | -1446.9 | 4654 | 9.9 | 172039.5 | -1415.0 | 4744 | 9.8 | 173552.0 | -1450.6 | 4834 | 9.8 | 175021.0 | -1421.2 |
| 4565 | 6.8 | 170344.5 | -1426.2 | 4655 | 9.2 | 172047.7 | -1405.3 | 4745 | 9.6 | 173613.8 | -1428.8 | 4835 | 9.2 | 175040.2 | -1405.6 |
| 4566 | 9.7 | 170344.7 | -1428.1 | 4656 | 10. | 172053.6 | -1453.2 | 4746 | 9.9 | 173627.9 | -1457.9 | 4836 | 8.9 | 175043.1 | -1451.8 |
| 4567 | 9.7 | 170357.9 | -1436.4 | 4657 | 9.3 | 172103.7 | -1423.0 | 4747 | 8.5 | 173637.6 | -1444.7 | 4837 | 9.8 | 175045.9 | -1457.1 |
| 4568 | 8.0 | 170418.8 | -1458.8 | 4658 | 8.5 | 172105.0 | -1408.3 | 4748 | 8.9 | 173646.9 | -1449.3 | 4838 | 8.9 | 175106.3 | -1422.0 |
| 4569 | 9.4 | 170420.1 | -1443.5 | 4659 | 10. | 172114.0 | -1452.5 | 4749 | 9.5 | 173659.3 | -1419.6 | 4839 | 8.5 | 175108.8 | -1410.2 |
| 4570 | 9.4 | 170426.8 | -1401.7 | 4660 | 9.2 | 172116.6 | -1453.3 | 4750 | 9.6 | 173659.9 | -1423.9 | 4840 | 9.5 | 175127.0 | -1420.4 |
| 4571 | 8.9 | 170443.9 | -1409.3 | 4661 | 9.1 | 172143.3 | -1403.8 | 4751 | 9.5 | 173700.6 | -1417.8 | 4841 | 9.0 | 175144.7 | -1429.3 |
| 4572 | 9.0 | 170447.5 | -1439.0 | 4662 | 8.9 | 172143.9 | -1426.4 | 4752 | 9.5 | 173704.3 | -1444.3 | 4842 | 7.6 | 175153.2 | -1446.6 |
| 4573 | 10. | 170507.2 | -1448.7 | 4663 | 9.5 | 172205.8 | -1420.7 | 4753 | 10. | 173706.0 | -1456.2 | 4843 | 9.4 | 175203.2 | -1400.2 |
| 4574 | 10. | 170515.4 | -1449.6 | 4664 | 9.8 | 172211.8 | -1447.5 | 4754 | 8.2 | 173708.4 | -1423.1 | 4844 | 9.2 | 175204.3 | -1450.6 |
| 4575 | 9.3 | 170543.4 | -1401.6 | 4665 | 8.0 | 172215.7 | -1439.1 | 4755 | 9.3 | 173712.6 | -1406.0 | 4845 | 8.5 | 175204.4 | -1411.5 |
| 4576 | 9.5 | 170550.6 | -1421.5 | 4666 | 9.8 | 172222.7 | -1428.2 | 4756 | 9.1 | 173719.8 | -1428.7 | 4846 | 9.5 | 175221.6 | -1452.6 |
| 4577 | 9.1 | 170552.1 | -1409.5 | 4667 | 8.5 | 172226.4 | -1417.5 | 4757 | 9.4 | 173725.3 | -1444.6 | 4847 | 10. | 175221.8 | -1458.8 |
| 4578 | 10. | 170600.4 | -1416.7 | 4668 | 9.4 | 172240.3 | -1428.2 | 4758 | 9.5 | 173744.6 | -1406.9 | 4848 | 9.1 | 175249.8 | -1418.5 |
| 4579 | 9.4 | 170605.1 | -1448.3 | 4669 | 9.5 | 172242.5 | -1457.8 | 4759 | 9.8 | 173746.7 | -1458.7 | 4849 | 9.6 | 175255.2 | -1401.6 |
| 4580 | 9.8 | 170617.9 | -1422.4 | 4670 | 8.8 | 172252.9 | -1414.7 | 4760 | 8.5 | 173805.9 | -1401.3 | 4850 | 9.7 | 175309.1 | -1425.5 |
| 4581 | 9.2 | 170631.4 | -1400.0 | 4671 | 9.8 | 172311.1 | -1405.8 | 4761 | 9.5 | 173807.4 | -1421.5 | 4851 | 9.1 | 175309.4 | -1429.4 |
| 4582 | 8.9 | 170635.1 | -1406.2 | 4672 | 9.4 | 172329.6 | -1401.3 | 4762 | 8.3 | 173817.0 | -1441.6 | 4852 | 9.4 | 175310.0 | -1449.4 |
| 4583 | 9.2 | 170638.9 | -1433.3 | 4673 | 9.3 | 172331.3 | -1424.2 | 4763 | 9.0 | 173819.3 | -1443.0 | 4853 | 9.2 | 175311.7 | -1429.6 |
| 4584 | 8.1 | 170659.0 | -1415.3 | 4674 | 9.4 | 172421.6 | -1401.7 | 4764 | 9.2 | 173823.5 | -1414.6 | 4854 | 9.5 | 175312.5 | -1445.7 |
| 4585 | 6.4 | 170705.4 | -1424.8 | 4675 | 9.4 | 172428.8 | -1443.0 | 4765 | 9.6 | 173824.0 | -1417.0 | 4855 | 9.5 | 175333.3 | -1420.1 |
| 4586 | 9.1 | 170712.0 | -1454.8 | 4676 | 9.5 | 172432.7 | -1453.3 | 4766 | 9.5 | 173828.8 | -1429.7 | 4856 | 9.2 | 175341.2 | -1423.2 |
| 4587 | 9.6 | 170714.4 | -1400.0 | 4677 | 8.0 | 172433.0 | -1440.9 | 4767 | 9.6 | 173856.6 | -1406.3 | 4857 | 9.2 | 175344.1 | -1441.4 |
| 4588 | 9.4 | 170748.0 | -1455.3 | 4678 | 9.1 | 172434.3 | -1444.3 | 4768 | 8.9 | 173901.9 | -1414.3 | 4858 | 9.5 | 175344.1 | -1435.7 |
| 4589 | 9.8 | 170752.7 | -1455.1 | 4679 | 9.4 | 172454.1 | -1447.1 | 4769 | 9.8 | 173914.6 | -1449.5 | 4859 | 9.5 | 175344.1 | -1426.6 |
| 4590 | 9.3 | 170757.5 | -1446.2 | 4680 | 9.5 | 172455.0 | -1427.5 | 4770 | 6.2 | 173920.8 | -1440.2 | 4860 | 8.7 | 175356.7 | -1429.5 |
| 4591 | 9.5 | 170900.8 | -1467.3 | 4681 | 9.5 | 172458.0 | -1420.2 | 4771 | 9.3 | 173940.0 | -1450.2 | 4861 | 9.2 | 175404.6 | -1438.9 |
| 4592 | 8.8 | 170846.7 | -1405.7 | 4682 | 8.3 | 172527.1 | -1418.8 | 4772 | 9.1 | 173944.3 | -1431.7 | 4862 | 9.4 | 175415.6 | -1416.9 |
| 4593 | 9.2 | 170847.6 | -1456.5 | 4683 | 9.0 | 172527.2 | -1458.2 | 4773 | 10. | 173955.5 | -1452.7 | 4863 | 9.8 | 175418.7 | -1420.3 |
| 4594 | 9.6 | 170933.1 | -1452.6 | 4684 | 9.5 | 172531.4 | -1421.7 | 4774 | 10. | 173959.0 | -1455.0 | 4864 | 10. | 175422.9 | -1444.3 |
| 4595 | 9.5 | 170928.0 | -1454.0 | 4685 | 9.5 | 172536.0 | -1425.9 | 4775 | 9.6 | 174018.6 | -1400.7 | 4865 | 9.4 | 175453.2 | -1423.0 |
| 4596 | 9.5 | 170953.4 | -1427.5 | 4686 | 9.7 | 172542.3 | -1441.9 | 4776 | 9.5 | 174058.9 | -1415.8 | 4866 | 10. | 175516.1 | -1407.2 |
| 4597 | 9.5 | 170954.4 | -1428.9 | 4687 | 9.7 | 172549.0 | -1453.1 | 4777 | 10. | 174117.7 | -1429.7 | 4867 | 9.5 | 175523.8 | -1410.0 |
| 4598 | 8.4 | 170958.3 | -1437.5 | 4688 | 9.8 | 172614.4 | -1413.5 | 4778 | 10. | 174122.6 | -1435.6 | 4868 | 10. | 175527.5 | -1405.9 |
| 4599 | 9.4 | 171006.7 | -1403.8 | 4689 | 9.2 | 172635.2 | -1434.8 | 4779 | 9.6 | 174139.4 | -1459.9 | 4869 | 9.2 | 175542.7 | -1422.9 |
| 4600 | 9.6 | 171009.6 | -1452.4 | 4690 | 9.2 | 172658.9 | -1408.0 | 4780 | 8.0 | 174153.9 | -1411.3 | 4870 | 9.1 | 175548.3 | -1414.8 |
| 4601 | 8.9 | 171016.1 | -1445.1 | 4691 | 8.5 | 172703.1 | -1415.1 | 4781 | 9.2 | 174157.5 | -1414.2 | 4871 | 9.4 | 175635.0 | -1459.3 |
| 4602 | 8.9 | 171037.5 | -1450.2 | 4692 | 9.1 | 172714.8 | -1439.0 | 4782 | 10. | 174158.3 | -1412.2 | 4872 | 8.7 | 175639.9 | -1438.9 |
| 4603 | 9.9 | 171049.4 | -1426.8 | 4693 | 7.5 | 172728.2 | -1422.9 | 4783 | 9.1 | 174202.0 | -1454.1 | 4873 | 9.6 | 175641.5 | -1449.8 |
| 4604 | 9.5 | 171122.0 | -1414.3 | 4694 | 9.4 | 172738.4 | -1406.7 | 4784 | 8.9 | 174202.9 | -1417.3 | 4874 | 9.1 | 175650.5 | -1457.6 |
| 4605 | 9.5 | 171127.4 | -1424.2 | 4695 | 9.1 | 172744.3 | -1446.3 | 4785 | 9.5 | 174205.6 | -1444.5 | 4875 | 9.8 | 175655.3 | -1421.0 |
| 4606 | 9.5 | 171128.6 | -1422.2 | 4696 | 8.8 | 172830.8 | -1424.5 | 4786 | 9.5 | 174221.5 | -1431.4 | 4876 | 10. | 175703.6 | -1418.9 |
| 4607 | 9.8 | 171131.3 | -1440.1 | 4697 | 8.4 | 172835.3 | -1441.2 | 4787 | 9.4 | 174222.4 | -1415.0 | 4877 | 10. | 175710.2 | -1420.7 |
| 4608 | 10. | 171149.4 | -1430.4 | 4698 | 9.5 | 172853.2 | -1449.6 | 4788 | 8.8 | 174224.9 | -1417.0 | 4878 | 9.5 | 175717.5 | -1429.4 |
| 4609 | 9.8 | 171156.5 | -1446.8 | 4699 | 8.8 | 172855.9 | -1412.5 | 4789 | 10. | 174243.9 | -1448.7 | 4879 | 9.2 | 175729.4 | -1436.3 |
| 4610 | 9.5 | 171203.1 | -1432.5 | 4700 | 10. | 172905.1 | -1401.9 | 4790 | 9.1 | 174313.7 | -1441.2 | 4880 | 8.0 | 175743.8 | -1412.2 |
| 4611 | 9.8 | 171205.5 | -1421.2 | 4701 | 9.8 | 172905.9 | -1458.9 | 4791 | 9.2 | 174313.7 | -1414.1 | 4881 | 9.1 | 175751.7 | -1408.1 |
| 4612 | 9.3 | 171212.6 | -1450.0 | 4702 | 9.4 | 172910.7 | -1432.1 | 4792 | 8.8 | 174317.0 | -1414.2 | 4882 | 8.9 | 175802.8 | -1407.6 |
| 4613 | 9.5 | 171228.9 | -1423.8 | 4703 | 9.4 | 172932.8 | -1402.2 | 4793 | 9.7 | 174317.3 | -1411.3 | 4883 | 9.3 | 175805.6 | -1456.9 |
| 4614 | 9.6 | 171230.8 | -1447.1 | 4704 | 9.4 | 172947.2 | -1425.5 | 4794 | 9.0 | 174327.0 | -1440.3 | 4884 | 7.5 | 175816.5 | -1458.5 |
| 4615 | 8.3 | 171231.4 | -1400.6 | 4705 | 9.2 | 173000.4 | -1457.1 | 4795 | 9.5 | 174330.4 | -1420.0 | 4885 | 8.8 | 175819.4 | -1443.8 |
| 4616 | 9.5 | 171303.1 | -1429.5 | 4706 | 9.4 | 173008.4 | -1455.2 | 4796 | 9.1 | 174333.8 | -1429.1 | 4886 | 9.4 | 175829.6 | -1427.0 |
| 4617 | 9.5 | 171326.1 | -1428.5 | 4707 | 7.8 | 173010.3 | -1441.1 | 4797 | 8.7 | 174346.9 | -1459.1 | 4887 | 8.9 | 175846.5 | -1424.2 |
| 4618 | 9.8 | 171326.4 | -1427.5 | 4708 | 9.4 | 173010.9 | -1458.7 | 4798 | 9.1 | 174349.6 | -1437.2 | 4888 | 9.2 | 175849.0 | -1406.9 |
| 4619 | 8.5 | 171339.4 | -1454.2 | 4709 | 9.1 | 173015.1 | -1429.6 | 4799 | 9.9 | 174416.9 | -1409.0 | 4889 | 9.5 | 175855.5 | -1429.8 |
| 4620 | 8.8 | 171346.5 | -1410.0 | 4710 | 9.0 | 173015.8 | -1437.0 | 4800 | 9.5 | 174429.7 | -1428.9 | 4890 | 9.4 | 175905.1 | -1422.7 |
| 4621 | 9.5 | 171401.0 | -1410.3 | 4711 | 9.5 | 173019.1 | -1443.6 | 4801 | 9.2 | 174501.9 | -1405.1 | 4891 | 9.8 | 175909.5 | -1450.3 |
| 4622 | 9.4 | 171427.7 | -1448.1 | 4712 | 9.7 | 173044.6 | -1445.0 | 4802 | 9.2 | 174506.8 | -1404.8 | 4892 | 8.5 | 175911.8 | -1404.8 |
| 4623 | 9.8 | 171538.5 | -1415.9 | 4713 | 10. | 173058.4 | -1409.9 | 4803 | 9.9 | 174508.9 | -1426.1 | 4893 | 9.4 | 175921.5 | -1420.3 |
| 4624 | 9.1 | 171542.0 | -1407.7 | 4714 | 9.1 | 173165.9 | -1457.1 | 4804 | 9.6 | 174514.7 | -1419.5 | 4894 | 8.7 | 175935.2 | -1417.9 |
| 4625 | 9.4 | 171609.6 | -1411.7 | 4715 | 8.5 | 173166.8 | -1434.5 | 4805 | 9.6 | 174517.6 | -1424.1 | 4895 | 8.2 | 175939.1 | -1417.3 |
| 4626 | 9.4 | 171644.7 | -1462.4 | 4716 | 9.4 | 173114.0 | -1412.6 | 4806 | 9.5 | 174520.7 | -1411.0 | 4896 | 10. | 175941.5 | -1404.0 |
| 4627 | 9.5 | 171648.0 | -1458.0 | 4717 | 8.9 | 173123.3 | -1424.2 | 4807 | 9.8 | 174523.6 | -1457.9 | 4897 | 9.1 | 175944.0 | -1401.1 |
| 4628 | 9.9 | 171649.3 | -1445.0 | 4718 | 9.8 | 173128.4 | -1410.3 | 4808 | 8.1 | 174549.0 | -1452.1 | 4898 | 9.2 | 175944.2 | -1444.7 |
| 4629 | 9.1 | 171650.4 | -1428.3 | 4719 | 9.5 | 173152.0 | -1443.0 | 4809 | 9.5 | 174612.9 | -       |      |     |          |         |



4917 9.7 180247.7 -1401.1  
 4918 8.5 180258.6 -1426.9  
 4919 9.8 180318.7 -1416.2  
 4920 9.2 180329.5 -1400.8  
 4921 9.7 180334.3 -1450.2  
 4922 9.3 180341.3 -1458.1  
 4923 9.1 180341.4 -1446.6  
 4924 9.2 180344.4 -1451.3  
 4925 9.5 180348.6 -1430.3  
 4926 9.3 180349.5 -1456.9  
 4927 9.1 180350.0 -1431.0  
 4928 0.0 180355.5 -1402.2  
 4929 9.5 180357.7 -1447.5  
 4930 9.8 180411.6 -1419.9  
 4931 9.5 180414.6 -1455.3  
 4932 9.4 180420.0 -1450.8  
 4933 9.7 180425.5 -1432.5  
 4934 8.3 180458.6 -1428.0  
 4935 9.8 180509.7 -1433.4  
 4936 10. 180516.5 -1401.1  
 4937 9.5 180520.1 -1442.3  
 4938 9.4 180521.6 -1443.8  
 4939 9.7 180525.8 -1409.8  
 4940 8.9 180527.7 -1412.2  
 4941 9.2 180544.7 -1441.9  
 4942 9.7 180552.0 -1439.5  
 4943 9.5 180556.1 -1442.4  
 4944 9.4 180606.5 -1402.8  
 4945 9.6 180616.3 -1443.4  
 4946 9.2 180633.6 -1454.2  
 4947 9.3 180649.1 -1422.3  
 4948 9.6 180655.0 -1429.7  
 4949 10. 180700.5 -1446.1  
 4950 9.8 180710.5 -1436.6  
 4951 10. 180714.0 -1455.8  
 4952 9.6 180720.8 -1403.4  
 4953 9.3 180726.3 -1446.3  
 4954 9.1 180727.1 -1422.5  
 4955 8.3 180745.5 -1458.3  
 4956 9.0 180747.2 -1420.7  
 4957 9.3 180754.7 -1439.6  
 4958 9.4 180756.4 -1441.8  
 4959 8.6 180759.0 -1441.1  
 4960 9.4 180801.6 -1459.2  
 4961 9.4 180812.1 -1429.7  
 4962 8.5 180813.7 -1417.2  
 4963 9.7 180821.2 -1420.0  
 4964 9.0 180821.8 -1442.0  
 4965 9.0 180837.0 -1431.7  
 4966 9.4 180843.7 -1442.5  
 4967 9.3 180853.6 -1420.4  
 4968 9.5 180904.6 -1454.5  
 4969 8.0 180909.6 -1453.4  
 4970 9.2 180914.6 -1405.8  
 4971 8.8 180916.1 -1430.2  
 4972 9.4 180917.7 -1418.6  
 4973 9.3 180928.8 -1458.1  
 4974 9.6 180932.1 -1418.4  
 4975 9.0 180935.5 -1407.7  
 4976 9.0 180938.3 -1430.0  
 4977 9.6 180948.2 -1432.7  
 4978 9.4 180952.7 -1445.8  
 4979 9.2 181004.1 -1437.0  
 4980 10. 181004.3 -1431.0  
 4981 9.2 181005.2 -1425.2  
 4982 9.3 181007.8 -1443.7  
 4983 9.5 181008.6 -1453.2  
 4984 9.3 181011.0 -1413.6  
 4985 8.9 181013.0 -1407.7  
 4986 9.1 181013.8 -1402.7  
 4987 9.5 181019.3 -1416.7  
 4988 8.5 181023.4 -1401.7  
 4989 9.9 181030.1 -1457.4  
 4990 9.8 181031.3 -1415.4  
 4991 8.2 181045.0 -1402.6  
 4992 9.3 181048.3 -1422.7  
 4993 9.6 181051.6 -1414.1  
 4994 9.3 181054.6 -1413.3  
 4995 9.6 181104.1 -1430.1  
 4996 9.6 181107.5 -1440.9  
 4997 9.0 181118.4 -1450.3  
 4998 9.9 181126.7 -1443.1  
 4999 9.5 181130.8 -1408.5  
 5000 9.8 181136.2 -1430.1  
 5001 9.8 181141.3 -1446.5  
 5002 8.1 181158.5 -1454.2  
 5003 10. 181215.1 -1424.9  
 5004 9.2 181216.5 -1411.6  
 5005 8.9 181220.2 -1400.8  
 5006 9.5 181237.5 -1458.4

5007 9.5 181239.4 -1443.0  
 5008 9.5 181247.6 -1449.7  
 5009 9.3 181248.3 -1413.2  
 5010 9.2 181324.4 -1419.2  
 5011 10. 181347.8 -1404.4  
 5012 9.5 181356.3 -1401.6  
 5013 6.8 181400.7 -1427.0  
 5014 9.7 181406.8 -1440.8  
 5015 9.5 181419.6 -1458.7  
 5016 9.1 181425.3 -1442.7  
 5017 8.4 181429.7 -1425.5  
 5018 9.7 181443.9 -1433.7  
 5019 9.3 181454.8 -1426.9  
 5020 9.5 181500.3 -1425.9  
 5021 9.5 181505.2 -1430.5  
 5022 9.3 181505.6 -1432.4  
 5023 9.5 181508.1 -1453.4  
 5024 9.3 181511.0 -1401.1  
 5025 9.3 181519.6 -1457.5  
 5026 9.4 181523.6 -1441.0  
 5027 9.8 181532.9 -1424.2  
 5028 9.5 181536.0 -1435.6  
 5029 9.4 181536.8 -1412.9  
 5030 9.3 181604.8 -1414.0  
 5031 9.4 181611.3 -1447.0  
 5032 8.9 181616.6 -1449.6  
 5033 9.1 181617.4 -1451.0  
 5034 9.8 181639.6 -1456.3  
 5035 9.4 181645.4 -1411.5  
 5036 9.8 181646.6 -1404.2  
 5037 8.2 181650.0 -1443.3  
 5038 10. 181659.2 -1434.1  
 5039 6.8 181702.4 -1403.0  
 5040 9.4 181721.7 -1449.4  
 5041 9.4 181749.2 -1426.6  
 5042 9.5 181749.6 -1456.1  
 5043 9.7 181749.7 -1442.1  
 5044 8.2 181751.1 -1452.1  
 5045 10. 181759.3 -1425.0  
 5046 9.5 181802.8 -1413.5  
 5047 10. 181823.5 -1443.4  
 5048 10. 181829.2 -1459.6  
 5049 9.8 181831.5 -1455.0  
 5050 9.1 181832.3 -1435.1  
 5051 9.4 181839.3 -1416.3  
 5052 9.3 181840.2 -1432.9  
 5053 8.4 181858.3 -1446.6  
 5054 9.3 181859.9 -1448.5  
 5055 9.8 181906.4 -1443.6  
 5056 10. 181908.3 -1421.2  
 5057 9.8 181909.6 -1447.3  
 5058 9.4 181916.0 -1404.8  
 5059 9.8 181923.2 -1453.0  
 5060 9.5 181932.3 -1417.9  
 5061 9.8 181932.4 -1448.5  
 5062 9.5 181945.3 -1447.5  
 5063 9.3 181947.6 -1445.0  
 5064 9.4 181948.2 -1429.7  
 5065 9.3 181951.6 -1455.6  
 5066 9.8 182005.8 -1420.1  
 5067 9.2 182014.8 -1414.8  
 5068 9.4 182024.3 -1424.6  
 5069 8.8 182030.4 -1416.1  
 5070 9.5 182056.3 -1418.9  
 5071 5.0 182057.2 -1439.3  
 5072 9.2 182057.7 -1443.3  
 5073 9.3 182059.4 -1412.1  
 5074 9.3 182105.3 -1422.5  
 5075 9.6 182105.4 -1416.0  
 5076 9.3 182119.9 -1449.8  
 5077 6.8 182131.0 -1440.4  
 5078 9.0 182139.3 -1409.4  
 5079 9.4 182144.2 -1427.5  
 5080 9.2 182146.6 -1453.8  
 5081 9.2 182146.9 -1418.0  
 5082 9.4 182149.5 -1456.6  
 5083 9.3 182208.0 -1441.0  
 5084 9.8 182225.9 -1408.1  
 5085 9.4 182231.1 -1452.2  
 5086 9.7 182241.0 -1432.8  
 5087 10. 182247.5 -1437.8  
 5088 10. 182247.2 -1443.1  
 5089 9.3 182300.8 -1446.2  
 5090 8.8 182303.4 -1412.7  
 5091 9.7 182308.7 -1452.5  
 5092 9.3 182310.2 -1427.1  
 5093 9.5 182319.5 -1424.6  
 5094 9.9 182329.2 -1449.2  
 5095 8.5 182344.3 -1406.2  
 5096 9.8 182356.4 -1406.2

5097 10. 182401.4 -1411.3  
 5098 7.0 182404.3 -1444.9  
 5099 5.8 182426.1 -1458.0  
 5100 9.9 182431.7 -1440.7  
 5101 9.5 182434.3 -1443.8  
 5102 9.0 182454.7 -1400.7  
 5103 9.1 182458.4 -1405.4  
 5104 9.5 182502.3 -1426.6  
 5105 8.7 182508.4 -1412.7  
 5106 6.7 182522.1 -1457.6  
 5107 9.7 182529.0 -1447.0  
 5108 9.3 182529.6 -1413.4  
 5109 9.6 182531.9 -1409.2  
 5110 8.5 182535.3 -1431.7  
 5111 9.4 182549.3 -1427.5  
 5112 9.5 182558.8 -1433.9  
 5113 8.1 182616.6 -1440.7  
 5114 9.3 182618.5 -1430.9  
 5115 10. 182624.8 -1400.1  
 5116 10. 182626.4 -1411.0  
 5117 9.2 182637.0 -1448.5  
 5118 8.3 182638.0 -1448.7  
 5119 9.4 182640.7 -1453.9  
 5120 9.5 182641.5 -1412.7  
 5121 9.4 182651.8 -1425.4  
 5122 9.5 182653.1 -1459.4  
 5123 9.8 182704.3 -1417.7  
 5124 8.5 182704.9 -1447.3  
 5125 9.5 182719.4 -1403.3  
 5126 9.8 182728.9 -1429.3  
 5127 9.6 182732.6 -1422.2  
 5128 9.1 182733.8 -1432.0  
 5129 7.5 182745.9 -1410.1  
 5130 10. 182746.4 -1437.9  
 5131 8.6 182758.3 -1413.5  
 5132 9.4 182811.8 -1410.1  
 5133 9.4 182826.3 -1435.9  
 5134 9.1 182828.7 -1404.1  
 5135 9.4 182846.4 -1418.0  
 5136 9.5 182900.7 -1451.7  
 5137 9.3 182914.7 -1439.5  
 5138 9.8 182925.8 -1427.1  
 5139 7.0 182948.9 -1407.5  
 5140 9.1 183005.8 -1437.3  
 5141 9.5 183051.5 -1421.7  
 5142 9.5 183053.4 -1426.2  
 5143 9.1 183055.7 -1431.9  
 5144 9.2 183100.5 -1449.3  
 5145 10. 183101.3 -1436.3  
 5146 9.8 183104.1 -1414.2  
 5147 9.3 183107.8 -1454.0  
 5148 9.2 183126.9 -1448.1  
 5149 8.9 183120.6 -1453.3  
 5150 9.1 183120.8 -1441.2  
 5151 10. 183120.8 -1452.0  
 5152 8.3 183239.5 -1437.7  
 5153 8.7 183252.3 -1453.2  
 5154 9.8 183311.9 -1456.6  
 5155 9.4 183320.6 -1441.6  
 5156 6.6 183326.6 -1441.7  
 5157 8.9 183406.2 -1443.5  
 5158 9.3 183409.1 -1447.0  
 5159 9.3 183415.3 -1417.4  
 5160 9.6 183428.3 -1427.8  
 5161 9.1 183431.6 -1436.1  
 5162 9.1 183449.2 -1425.7  
 5163 8.9 183456.0 -1449.4  
 5164 9.2 183505.1 -1448.2  
 5165 8.5 183525.7 -1434.7  
 5166 10. 183536.5 -1456.9  
 5167 9.5 183558.0 -1403.9  
 5168 9.7 183559.7 -1453.2  
 5169 9.9 183577.8 -1454.0  
 5170 9.6 183578.8 -1428.0  
 5171 9.4 183589.1 -1415.6  
 5172 8.6 183588.4 -1429.7  
 5173 9.8 183551.0 -1450.3  
 5174 9.3 183701.2 -1406.8  
 5175 9.2 183704.2 -1424.5  
 5176 9.7 183706.4 -1449.6  
 5177 9.5 183709.5 -1457.0  
 5178 9.4 183713.5 -1446.3  
 5179 9.1 183718.1 -1448.2  
 5180 9.1 183719.7 -1405.2  
 5181 8.8 183726.0 -1420.9  
 5182 9.8 183743.9 -1440.1  
 5183 9.5 183818.6 -1411.8  
 5184 9.4 183822.8 -1421.5  
 5185 9.5 183826.6 -1445.0  
 5186 8.8 183829.4 -1459.9

5187 7.5 183832.5 -1436.4  
 5188 9.0 183834.2 -1453.3  
 5189 9.1 183857.5 -1440.2  
 5190 9.2 183907.5 -1458.2  
 5191 9.1 183919.3 -1449.7  
 5192 8.9 183926.5 -1440.6  
 5193 9.0 183932.1 -1407.3  
 5194 9.3 183956.7 -1440.1  
 5195 7.0 183957.6 -1451.6  
 5196 9.5 184007.5 -1434.5  
 5197 7.7 184046.5 -1403.6  
 5198 8.3 184107.0 -1433.0  
 5199 9.5 184134.1 -1419.3  
 5200 9.8 184141.6 -1441.1  
 5201 9.5 184153.5 -1450.2  
 5202 9.4 184157.2 -1457.9  
 5203 9.4 184206.6 -1411.8  
 5204 8.3 184212.7 -1432.7  
 5205 9.1 184238.8 -1404.7  
 5206 9.4 184250.7 -1431.1  
 5207 9.6 184250.9 -1449.6  
 5208 9.5 184301.1 -1432.5  
 5209 9.1 184306.6 -1411.3  
 5210 8.1 184308.3 -1451.4  
 5211 9.0 184309.1 -1404.6  
 5212 9.5 184341.1 -1416.2  
 5213 10. 184437.1 -1449.4  
 5214 9.7 184504.9 -1401.5  
 5215 8.2 184507.4 -1428.7  
 5216 9.5 184523.1 -1409.8  
 5217 9.1 184524.2 -1431.1  
 5218 9.9 184535.6 -1455.3  
 5219 9.8 184552.9 -1424.9  
 5220 9.1 184603.2 -1425.5  
 5221 9.2 184622.7 -1437.1  
 5222 8.5 184628.7 -1431.1  
 5223 9.7 184646.8 -1422.9  
 5224 8.9 184655.3 -1439.6  
 5225 7.0 184659.6 -1452.1  
 5226 9.4 184711.7 -1424.3  
 5227 9.2 184733.6 -1410.6  
 5228 8.0 184734.6 -1459.6  
 5229 9.4 184814.3 -1454.5  
 5230 9.8 184817.7 -1436.5  
 5231 7.5 184834.4 -1412.4  
 5232 9.2 184835.6 -1404.0  
 5233 9.4 184921.4 -1402.7  
 5234 10. 184934.1 -1456.0  
 5235 9.2 184943.1 -1430.7  
 5236 9.4 184946.4 -1430.8  
 5237 10. 184954.4 -1437.5  
 5238 10. 185003.5 -1459.3  
 5239 9.5 185004.4 -1425.6  
 5240 9.8 185009.4 -1439.1  
 5241 9.3 185015.8 -1423.0  
 5242 8.5 185021.3 -1457.3  
 5243 9.3 185026.6 -1453.5  
 5244 9.1 185038.5 -1417.9  
 5245 9.1 185108.4 -1417.3  
 5246 9.0 185115.5 -1417.0  
 5247 9.5 185121.9 -1432.6  
 5248 9.0 185136.8 -1452.0  
 5249 9.4 185149.0 -1413.4  
 5250 10. 185208.4 -1448.1  
 5251 9.6 185219.9 -1444.4  
 5252 9.4 185228.5 -1412.7  
 5253 9.3 185229.8 -1431.2  
 5254 9.5 185232.4 -1432.9  
 5255 9.5 185311.5 -1409.7  
 5256 8.7 185312.1 -1443.2  
 5257 9.4 185312.5 -1439.5  
 5258 9.3 185321.2 -1430.8  
 5259 9.5 185334.1 -1442.3  
 5260 9.1 185337.4 -1430.2  
 5261 9.8 185348.0 -1419.5  
 5262 9.5 185349.6 -1457.2  
 5263 10. 185359.5 -1417.6  
 5264 9.1 185408.5 -1418.8  
 5265 9.1 185421.5 -1403.8  
 5266 9.2 185427.5 -1401.8  
 5267 9.0 185432.9 -1443.5  
 5268 9.3 185438.8 -1439.5  
 5269 9.7 185451.3 -1422.4  
 5270 9.3 185501.7 -1456.1  
 5271 9.5 185511.6 -1411.2  
 5272 10. 185517.1 -1404.3  
 5273 9.5 185521.0 -1409.9  
 5274 9.2 185547.1 -1440.8  
 5275 9.6 185547.5 -1424.4  
 5276 10. 185548.7 -1447.7



5277 8.5 185600.4 -1432.5  
 5278 9.5 185620.7 -1435.3  
 5279 9.0 185633.8 -1446.0  
 5280 9.0 185636.3 -1433.5  
 5281 8.0 185739.4 -1451.8  
 5282 9.8 185743.2 -1448.7  
 5283 10. 185803.1 -1442.4  
 5284 9.5 185816.4 -1410.0  
 5285 9.5 185818.8 -1422.5  
 5286 9.5 185828.5 -1453.5

5287 8.5 185852.4 -1417.2  
 5288 9.7 185856.9 -1429.3  
 5289 10. 185857.2 -1424.2  
 5290 9.5 185919.0 -1449.2  
 5291 9.5 185926.7 -1431.1  
 5292 9.5 185928.4 -1409.3  
 5293 9.5 185943.3 -1422.4  
 5294 10. 185942.2 -1450.3  
 5295 9.7 185945.8 -1455.5  
 5296 8.9 190009.2 -1401.0

5297 9.0 190028.0 -1442.1  
 5298 9.5 190041.2 -1448.8  
 5299 9.5 190045.5 -1400.7  
 5300 9.4 190047.3 -1456.1  
 5301 8.9 190049.7 -1428.5  
 5302 9.1 190053.9 -1407.9  
 5303 9.5 190054.2 -1425.3  
 5304 10. 190057.8 -1409.1  
 5305 9.4 190106.6 -1425.8  
 5306 10. 190108.7 -1420.8

5307 9.0 190118.1 -1448.8  
 5308 9.7 190119.3 -1424.7  
 5309 9.8 190136.6 -1456.5  
 5310 9.5 190154.4 -1451.8  
 5311 9.1 190157.1 -1432.2  
 5312 9.3 190220.1 -1442.3  
 5313 8.2 190301.8 -1416.6  
 5314 10. 190304.2 -1436.9  
 5315 9.9 190311.2 -1402.0  
 5316 8.9 190322.3 -1415.9

5317 6.8 190340.1 -1449.3  
 5318 9.1 190343.1 -1454.7  
 5319 9.4 190347.7 -1432.8  
 5320 9.5 190351.8 -1438.2  
 5321 9.2 190354.2 -1430.7  
 5322 9.8 190402.5 -1422.8  
 5323 9.8 190409.2 -1432.1  
 5324 9.8 190410.1 -1447.5  
 5325 8.7 190435.8 -1449.9  
 5326 9.8 190436.2 -1411.4

5327 8.0 190437.7 -1428.3  
 5328 9.2 190440.2 -1409.0  
 5329 9.4 190440.3 -1401.0  
 5330 9.2 190446.2 -1420.7  
 5331 9.5 190447.0 -1432.0  
 5332 9.1 190456.6 -1441.4  
 5333 7.8 190512.1 -1441.1  
 5334 9.8 190517.3 -1422.5  
 5335 9.1 190529.3 -1408.9  
 5336 9.8 190531.6 -1453.8

5337 10. 190543.6 -1446.0  
 5338 9.2 190544.3 -1455.8  
 5339 6.5 190547.7 -1416.9  
 5340 9.3 190549.5 -1437.9  
 5341 9.1 190552.8 -1419.9  
 5342 9.5 190601.8 -1434.0  
 5343 8.8 190618.9 -1442.4  
 5344 9.3 190627.9 -1440.6  
 5345 9.5 190643.1 -1403.8  
 5346 10. 190645.2 -1448.1

5347 9.5 190646.4 -1430.9  
 5348 9.2 190701.2 -1442.9  
 5349 9.0 190707.6 -1447.9  
 5350 9.8 190715.4 -1412.6  
 5351 9.2 190719.6 -1457.7  
 5352 9.0 190720.3 -1409.9  
 5353 9.8 190722.7 -1451.4  
 5354 9.5 190733.7 -1452.2  
 5355 9.1 190745.9 -1441.6  
 5356 9.5 190753.1 -1459.5

5357 9.5 190754.5 -1441.6  
 5358 9.2 190807.9 -1401.6  
 5359 9.3 190809.4 -1404.6  
 5360 9.6 190809.8 -1413.4  
 5361 10. 190817.3 -1423.7  
 5362 10. 190829.4 -1435.4  
 5363 9.7 190829.6 -1446.7  
 5364 9.5 190833.2 -1457.2  
 5365 10. 190840.3 -1436.7  
 5366 9.1 190846.2 -1448.3

5367 9.8 190850.5 -1438.4  
 5368 9.4 190902.4 -1417.6  
 5369 9.5 190902.9 -1431.7  
 5370 9.5 190905.9 -1404.6  
 5371 8.2 190914.6 -1445.3  
 5372 9.6 190931.6 -1442.8  
 5373 9.1 190939.7 -1455.0  
 5374 9.5 190949.4 -1412.8  
 5375 9.8 190949.8 -1430.0  
 5376 9.3 190957.3 -1407.6

5377 8.8 191012.5 -1404.7  
 5378 9.0 191014.9 -1435.6  
 5379 9.1 191021.4 -1433.8  
 5380 7.5 191027.6 -1448.1  
 5381 9.3 191029.8 -1421.5  
 5382 8.8 191038.9 -1424.0  
 5383 9.4 191039.4 -1441.0  
 5384 9.1 191103.2 -1414.7  
 5385 9.5 191104.6 -1410.8  
 5386 9.7 191115.1 -1402.5

5387 8.2 191120.9 -1424.7  
 5388 9.5 191129.4 -1433.0  
 5389 9.0 191137.8 -1431.8  
 5390 8.8 191147.4 -1450.6  
 5391 9.3 191152.3 -1418.0  
 5392 7.3 191154.3 -1442.5  
 5393 9.6 191206.6 -1426.3  
 5394 9.1 191208.0 -1436.0  
 5395 9.5 191210.5 -1426.6  
 5396 9.8 191219.7 -1409.7

5397 8.7 191221.7 -1400.4  
 5398 9.5 191241.0 -1448.1  
 5399 9.8 191244.7 -1449.4  
 5400 9.6 191250.9 -1403.9  
 5401 9.5 191258.6 -1452.4  
 5402 9.5 191303.8 -1452.0  
 5403 9.5 191312.7 -1409.3  
 5404 7.8 191322.5 -1417.9  
 5405 9.1 191336.1 -1450.9  
 5406 9.2 191401.9 -1424.0

5407 8.3 191411.9 -1400.2  
 5408 9.4 191426.3 -1417.8  
 5409 8.3 191429.2 -1423.9  
 5410 9.5 191429.5 -1443.6  
 5411 8.4 191431.5 -1418.0  
 5412 9.2 191434.0 -1420.3  
 5413 9.0 191444.1 -1431.9  
 5414 9.6 191457.3 -1404.0  
 5415 9.5 191531.5 -1449.0  
 5416 9.1 191532.8 -1407.9

5417 9.5 191542.7 -1458.6  
 5418 9.5 191549.0 -1414.4  
 5419 9.5 191552.4 -1445.8  
 5420 9.8 191554.0 -1416.2  
 5421 9.0 191612.5 -1416.8  
 5422 8.2 191615.9 -1453.4  
 5423 9.8 191624.3 -1441.1  
 5424 9.8 191630.8 -1442.1  
 5425 9.1 191636.4 -1454.8  
 5426 9.3 191655.9 -1444.6

5427 9.0 191709.7 -1448.3  
 5428 6.0 191710.4 -1410.3  
 5429 9.3 191719.0 -1421.8  
 5430 9.7 191731.0 -1449.2  
 5431 9.5 191740.2 -1459.2  
 5432 10. 191742.4 -1445.7  
 5433 9.3 191753.5 -1430.1  
 5434 9.8 191759.3 -1434.8  
 5435 7.2 191810.7 -1450.3  
 5436 9.8 191838.1 -1451.4

5437 8.5 191842.0 -1426.1  
 5438 9.7 191828.7 -1443.5  
 5439 8.8 192002.8 -1458.8  
 5440 9.4 192015.5 -1447.3  
 5441 7.8 192025.0 -1426.8  
 5442 9.3 192036.4 -1455.3  
 5443 9.3 192040.0 -1410.0  
 5444 9.5 192052.5 -1427.2  
 5445 8.7 192122.0 -1411.6  
 5446 8.2 192139.0 -1417.9

5447 9.3 192210.9 -1452.6  
 5448 9.2 192215.0 -1403.6  
 5449 9.4 192226.5 -1435.8  
 5450 7.8 192245.4 -1451.7  
 5451 9.8 192248.6 -1427.0  
 5452 8.7 192314.1 -1416.6  
 5453 8.5 192327.1 -1447.2  
 5454 9.1 192349.5 -1425.6  
 5455 9.6 192354.5 -1401.8  
 5456 9.3 192356.6 -1438.3

5457 9.1 192419.0 -1437.4  
 5458 9.2 192423.4 -1454.4  
 5459 9.2 192443.6 -1422.8  
 5460 9.6 192501.6 -1412.7  
 5461 8.5 192506.9 -1405.4  
 5462 8.7 192524.3 -1446.3  
 5463 10. 192531.1 -1427.3  
 5464 9.2 192541.0 -1418.0  
 5465 9.5 192612.0 -1452.9  
 5466 9.0 192641.0 -1455.7

5467 9.3 192651.6 -1405.8  
 5468 9.3 192710.4 -1403.3  
 5469 9.5 192722.1 -1414.1  
 5470 9.0 192732.6 -1430.4  
 5471 10. 192746.9 -1441.5  
 5472 9.2 192757.1 -1452.8  
 5473 10. 192811.6 -1401.9  
 5474 9.7 192822.5 -1446.1  
 5475 7.5 192858.9 -1444.9  
 5476 9.4 192917.1 -1447.6

5477 9.5 192918.1 -1419.2  
 5478 8.9 192920.5 -1443.2  
 5479 5.6 192923.6 -1437.2  
 5480 7.3 192937.6 -1416.4  
 5481 10. 192940.4 -1407.8  
 5482 9.5 192943.5 -1457.9  
 5483 9.6 192956.6 -1419.1  
 5484 9.6 193000.6 -1415.1  
 5485 9.3 193011.2 -1427.4  
 5486 9.8 193016.2 -1401.2

5487 9.5 193030.6 -1446.8  
 5488 9.1 193043.6 -1441.6  
 5489 9.0 193048.6 -1453.9  
 5490 9.5 193056.7 -1430.0  
 5491 9.4 193058.1 -1425.8  
 5492 9.4 193100.7 -1427.4  
 5493 8.5 193106.2 -1434.7  
 5494 9.3 193113.9 -1402.8  
 5495 9.9 193123.2 -1414.4  
 5496 8.9 193138.1 -1421.5

5497 10. 193153.1 -1400.5  
 5498 7.3 193154.2 -1422.2  
 5499 9.0 193159.9 -1442.3  
 5500 9.2 193227.6 -1425.8  
 5501 9.2 193233.1 -1446.4  
 5502 9.3 193233.4 -1416.0  
 5503 9.8 193236.4 -1448.0  
 5504 9.8 193254.7 -1408.9  
 5505 9.4 193301.4 -1455.1  
 5506 9.5 193312.1 -1457.4

5507 9.8 193327.4 -1452.3  
 5508 9.5 193346.2 -1436.1  
 5509 9.6 193347.6 -1417.3  
 5510 9.4 193350.2 -1406.0  
 5511 9.2 193350.6 -1426.8  
 5512 9.3 193352.7 -1424.6  
 5513 9.5 193352.7 -1421.0  
 5514 9.2 193355.6 -1441.7  
 5515 9.5 193410.0 -1457.4  
 5516 10. 193427.7 -1416.2

5517 10. 193438.1 -1442.3  
 5518 8.6 193451.6 -1423.7  
 5519 9.7 193503.6 -1450.5  
 5520 10. 193514.2 -1426.5  
 5521 9.5 193530.7 -1407.9  
 5522 9.5 193541.9 -1446.3  
 5523 20.0 193547.2 -1429.5  
 5524 10. 193557.6 -1456.5  
 5525 8.7 193600.0 -1451.4  
 5526 9.3 193602.0 -1439.3

5527 9.1 193617.5 -1433.6  
 5528 10. 193621.3 -1418.8  
 5529 9.9 193629.2 -1422.1  
 5530 9.7 193643.6 -1402.6  
 5531 9.0 193647.3 -1456.9  
 5532 9.5 193653.3 -1433.6  
 5533 10. 193705.2 -1424.9  
 5534 8.9 193724.5 -1448.7  
 5535 9.1 193735.3 -1423.9  
 5536 9.3 193741.2 -1435.8

5537 8.8 193752.8 -1409.7  
 5538 10. 193757.8 -1423.0  
 5539 9.1 193758.5 -1415.6  
 5540 9.1 193812.1 -1448.5  
 5541 10. 193826.2 -1400.5  
 5542 9.6 193827.8 -1405.1  
 5543 10. 193829.4 -1454.2  
 5544 9.7 193838.9 -1402.6  
 5545 9.7 193848.8 -1451.4  
 5546 10. 193900.3 -1432.2

5547 9.7 193912.6 -1455.5  
 5548 9.4 193924.7 -1415.1  
 5549 9.2 193929.0 -1453.3  
 5550 9.9 193932.9 -1443.3  
 5551 9.9 193943.4 -1434.8  
 5552 8.3 193950.9 -1455.5  
 5553 9.5 193951.7 -1436.8  
 5554 9.5 193951.8 -1434.2  
 5555 6.4 193954.1 -1403.4  
 5556 9.7 193954.9 -1407.0

5557 9.7 194015.2 -1413.3  
 5558 9.8 194029.8 -1444.3  
 5559 8.2 194049.3 -1444.5  
 5560 9.8 194057.0 -1429.3  
 5561 8.7 194103.8 -1456.9  
 5562 9.2 194140.7 -1402.9  
 5563 9.5 194145.3 -1405.3  
 5564 9.8 194207.8 -1459.1  
 5565 7.3 194217.9 -1417.1  
 5566 9.2 194223.4 -1410.4

5567 8.7 194224.2 -1428.0  
 5568 9.1 194239.3 -1457.4  
 5569 10. 194240.6 -1442.4  
 5570 9.7 194244.0 -1446.2  
 5571 9.1 194256.9 -1457.8  
 5572 9.6 194315.8 -1439.2  
 5573 9.5 194326.4 -1454.0  
 5574 9.4 194330.9 -1436.1  
 5575 10. 194334.9 -1428.5  
 5576 9.6 194419.0 -1406.5

5577 9.3 194427.7 -1400.2  
 5578 6.8 194456.6 -1457.9  
 5579 9.4 194458.1 -1405.2  
 5580 9.6 194527.1 -1441.3  
 5581 8.3 194532.8 -1432.6  
 5582 8.8 194553.5 -1413.4  
 5583 9.2 194632.4 -1413.2  
 5584 9.8 194656.9 -1426.1  
 5585 8.4 194657.0 -1409.6  
 5586 8.7 194657.8 -1438.8

5587 9.8 194658.5 -1451.7  
 5588 9.3 194713.2 -1405.3  
 5589 9.8 194736.6 -1403.4  
 5590 8.9 194744.6 -1448.1  
 5591 9.4 194801.5 -1405.5  
 5592 10. 194803.0 -1410.1  
 5593 9.1 194809.2 -1424.3  
 5594 9.8 194822.4 -1456.9  
 5595 9.8 194843.0 -1459.2  
 5596 9.2 194845.4 -1426.3

5597 9.8 194921.1 -1409.4  
 5598 9.5 194931.2 -1442.3  
 5599 9.3 194935.0 -1452.9  
 5600 9.4 194944.7 -1448.1  
 5601 8.6 195008.5 -1442.3  
 5602 9.7 195010.5 -1458.5  
 5603 8.8 195017.1 -1423.7  
 5604 10. 195032.3 -1420.1  
 5605 9.8 195043.9 -1406.0  
 5606 9.1 195046.9 -1410.8

5607 9.8 195048.0 -1448.6  
 5608 9.3 195055.7 -1409.3  
 5609 9.4 195137.8 -1428.8  
 5610 9.3 195159.7 -1405.2  
 5611 9.4 195202.4 -1459.1  
 5612 9.5 195202.5 -1413.9  
 5613 7.5 195258.6 -1418.6  
 5614 9.1 195259.9 -1420.7  
 5615 9.5 195310.0 -1412.9  
 5616 9.8 195324.2 -1455.7

5617 10. 195339.4 -1435.9  
 5618 5.8 195350.7 -1401.7  
 5619 9.7 195358.1 -1440.4  
 5620 9.3 195400.7 -1432.9  
 5621 9.7 195431.1 -1447.7  
 5622 9.8 195448.6 -1443.8  
 5623 9.2 195452.4 -1429.4  
 5624 9.5 195458.5 -1456.5  
 5625 9.5 195512.5 -1456.5  
 5626 8.8 195523.3 -1448.1

5627 9.6 195540.9 -1447.4  
 5628 9.5 195546.7 -1447.5  
 5629 9.1 195558.2 -1432.6  
 5630 9.8 195558.6 -1414.7  
 5631 10. 195556.1 -1450.0  
 5632 9.1 195658.5 -1407.1  
 5633 9.4 195717.7 -1445.0  
 5634 8.7 195717.7 -1444.8  
 5635 9.2 195736.4 -1402.6  
 5636 9.4 195748.5 -1422.8



5637 9.5 195753.9 -1434.6  
 5638 9.2 195815.4 -1445.3  
 5639 9.7 195823.4 -1439.3  
 5640 9.0 195850.3 -1453.3  
 5641 9.1 195854.6 -1453.9  
 5642 9.3 195857.5 -1415.2  
 5643 9.7 195915.4 -1401.1  
 5644 10. 195939.1 -1446.0  
 5645 9.2 195948.6 -1423.5  
 5646 9.3 200016.6 -1440.0

5647 9.4 200018.7 -1415.7  
 5648 7.5 200026.8 -1440.5  
 5649 9.6 200034.1 -1426.3  
 5650 9.7 200041.1 -1449.6  
 5651 9.7 200049.0 -1440.9  
 5652 9.0 200127.2 -1442.4  
 5653 9.8 200131.4 -1419.6  
 5654 8.8 200139.9 -1441.7  
 5655 10. 200155.2 -1426.1  
 5656 10. 200207.5 -1441.9

5657 9.1 200216.1 -1407.8  
 5658 9.8 200223.6 -1445.1  
 5659 9.6 200228.5 -1403.7  
 5660 10. 200230.1 -1438.5  
 5661 9.8 200252.5 -1410.9  
 5662 10. 200307.3 -1404.2  
 5663 10.0 200310.2 -1441.6  
 5664 8.5 200323.1 -1412.2  
 5665 9.8 200327.6 -1449.3  
 5666 9.1 200407.1 -1407.6

5667 9.5 200416.0 -1434.2  
 5668 9.3 200430.8 -1406.5  
 5669 9.4 200431.9 -1452.2  
 5670 8.2 200440.7 -1413.2  
 5671 9.0 200513.2 -1406.8  
 5672 9.2 200520.2 -1419.0  
 5673 9.5 200526.2 -1408.5  
 5674 8.5 200536.6 -1437.5  
 5675 9.2 200602.2 -1437.1  
 5676 9.8 200603.0 -1415.8

5677 8.7 200604.7 -1419.7  
 5678 9.8 200605.8 -1449.6  
 5679 9.5 200622.3 -1416.4  
 5680 8.0 200628.9 -1446.2  
 5681 9.8 200643.6 -1438.8  
 5682 9.7 200647.4 -1433.9  
 5683 9.9 200711.2 -1429.8  
 5684 9.0 200718.7 -1442.2  
 5685 9.7 200726.4 -1421.7  
 5686 9.7 200726.6 -1423.0

5687 9.1 200727.6 -1448.4  
 5688 9.6 200730.5 -1455.0  
 5689 9.7 200730.5 -1409.6  
 5690 9.0 200734.8 -1444.5  
 5691 9.6 200734.9 -1428.6  
 5692 9.1 200752.3 -1458.7  
 5693 9.0 200756.1 -1443.5  
 5694 9.3 200757.2 -1437.2  
 5695 9.2 200811.2 -1430.5  
 5696 9.3 200839.3 -1450.1

5697 8.7 200843.2 -1438.3  
 5698 9.5 200845.5 -1433.0  
 5699 9.5 200856.0 -1451.8  
 5700 10. 200900.1 -1441.7  
 5701 9.4 200907.2 -1431.8  
 5702 9.1 200920.2 -1425.3  
 5703 8.4 200922.8 -1424.1  
 5704 9.4 200936.0 -1443.6  
 5705 10. 200939.7 -1423.7  
 5706 10. 201015.8 -1419.0

5707 9.3 201022.7 -1419.9  
 5708 7.6 201055.4 -1444.1  
 5709 10. 201100.8 -1448.9  
 5710 9.2 201105.6 -1420.5  
 5711 9.3 201115.4 -1440.6  
 5712 9.8 201129.0 -1449.0  
 5713 8.7 201145.7 -1443.4  
 5714 9.4 201146.9 -1417.9  
 5715 9.3 201200.3 -1425.9  
 5716 9.4 201206.8 -1425.9

5717 9.8 201217.8 -1417.3  
 5718 8.8 201239.9 -1407.2  
 5719 8.3 201257.8 -1421.0  
 5720 8.5 201309.4 -1455.5  
 5721 9.8 201316.9 -1427.3  
 5722 9.4 201330.7 -1430.9  
 5723 9.5 201356.7 -1450.4  
 5724 9.4 201358.3 -1427.8  
 5725 9.8 201410.3 -1441.4  
 5726 9.4 201411.4 -1416.6

5727 9.8 201440.9 -1422.0  
 5728 9.4 201443.6 -1410.1  
 5729 9.6 201449.8 -1441.8  
 5730 9.3 201450.9 -1459.0  
 5731 9.4 201508.3 -1437.6  
 5732 7.0 201519.5 -1443.1  
 5733 8.3 201529.3 -1428.9  
 5734 7.3 201609.3 -1434.8  
 5735 9.8 201631.0 -1416.6  
 5736 8.5 201724.9 -1435.2

5737 9.1 201729.5 -1449.6  
 5738 8.5 201734.5 -1402.1  
 5739 9.8 201754.3 -1435.2  
 5740 8.8 201757.7 -1445.3  
 5741 8.0 201811.9 -1420.0  
 5742 8.3 201812.6 -1401.4  
 5743 9.4 201819.3 -1438.4  
 5744 9.3 201843.0 -1409.2  
 5745 8.5 201909.5 -1400.9  
 5746 10. 201910.9 -1433.1

5747 9.4 201913.0 -1447.4  
 5748 9.8 201919.1 -1458.1  
 5749 9.1 201926.6 -1447.3  
 5750 9.4 201927.9 -1453.4  
 5751 9.3 201939.9 -1436.4  
 5752 10. 201955.2 -1448.3  
 5753 7.8 201957.9 -1428.2  
 5754 8.8 202011.5 -1416.5  
 5755 9.5 202013.9 -1430.0  
 5756 9.2 202028.6 -1448.2

5757 9.4 202031.6 -1450.0  
 5758 9.4 202056.1 -1408.1  
 5759 9.5 202100.3 -1401.5  
 5760 9.5 202122.5 -1422.0  
 5761 9.5 202149.6 -1450.8  
 5762 9.8 202156.2 -1454.1  
 5763 9.5 202200.1 -1411.5  
 5764 10. 202225.0 -1409.0  
 5765 8.9 202255.9 -1403.9  
 5766 8.5 202348.0 -1415.9

5767 9.5 202400.6 -1409.9  
 5768 9.3 202406.3 -1452.3  
 5769 9.0 202409.7 -1457.2  
 5770 9.5 202411.5 -1452.2  
 5771 9.5 202427.5 -1429.4  
 5772 9.5 202437.5 -1437.9  
 5773 9.5 202439.0 -1444.1  
 5774 9.5 202439.2 -1453.5  
 5775 8.7 202442.6 -1411.6  
 5776 8.3 202446.3 -1402.1

5777 9.8 202506.3 -1447.6  
 5778 9.1 202510.6 -1434.1  
 5779 10. 202516.2 -1407.0  
 5780 9.2 202526.9 -1402.2  
 5781 6.0 202607.1 -1412.7  
 5782 9.8 202617.1 -1421.5  
 5783 9.8 202626.0 -1437.0  
 5784 9.5 202627.1 -1447.1  
 5785 9.8 202634.1 -1421.6  
 5786 8.9 202640.3 -1456.1

5787 9.5 202652.3 -1451.0  
 5788 9.3 202711.7 -1408.3  
 5789 9.5 202715.6 -1405.1  
 5790 9.3 202718.1 -1435.5  
 5791 9.3 202718.1 -1423.6  
 5792 9.4 202749.8 -1455.9  
 5793 9.7 202755.0 -1427.7  
 5794 9.0 202756.7 -1419.4  
 5795 9.1 202803.1 -1432.7  
 5796 9.7 202829.0 -1401.2

5797 9.1 202831.6 -1436.5  
 5798 9.5 202912.8 -1459.2  
 5799 9.4 202913.6 -1453.6  
 5800 9.5 202926.3 -1459.5  
 5801 9.5 202933.7 -1406.6  
 5802 8.5 202945.2 -1417.7  
 5803 10. 202955.4 -1449.4  
 5804 9.6 203008.2 -1444.6  
 5805 9.3 203017.8 -1446.9  
 5806 9.5 203032.4 -1440.7

5807 9.6 203049.9 -1452.6  
 5808 10. 203052.1 -1430.1  
 5809 9.5 203123.8 -1400.4  
 5810 9.0 203134.7 -1413.3  
 5811 9.3 203158.7 -1407.0  
 5812 8.3 203201.2 -1431.2  
 5813 9.6 203233.8 -1424.7  
 5814 9.0 203250.7 -1447.4  
 5815 7.7 203311.3 -1400.6  
 5816 9.1 203315.7 -1419.2

5817 10. 203316.6 -1403.4  
 5818 9.2 203324.2 -1430.6  
 5819 9.4 203334.9 -1458.8  
 5820 9.3 203341.3 -1403.2  
 5821 9.0 203345.1 -1424.8  
 5822 9.7 203352.7 -1445.1  
 5823 9.5 203352.9 -1458.8  
 5824 9.6 203405.8 -1408.8  
 5825 9.6 203412.7 -1446.8  
 5826 8.8 203425.8 -1419.0

5827 9.1 203431.7 -1439.1  
 5828 9.7 203450.9 -1451.0  
 5829 9.0 203511.3 -1423.9  
 5830 10. 203527.7 -1421.4  
 5831 9.1 203530.0 -1455.0  
 5832 9.6 203547.3 -1425.2  
 5833 9.8 203555.3 -1423.6  
 5834 9.1 203556.1 -1436.4  
 5835 10. 203601.4 -1447.0  
 5836 9.4 203609.3 -1421.7

5837 8.8 203610.8 -1413.2  
 5838 10. 203625.8 -1443.3  
 5839 7.1 203629.6 -1442.3  
 5840 10. 203629.7 -1435.6  
 5841 10. 203648.4 -1423.5  
 5842 9.4 203706.9 -1432.4  
 5843 9.8 203747.9 -1430.6  
 5844 9.1 203759.9 -1438.2  
 5845 9.8 203801.1 -1455.2  
 5846 9.1 203805.9 -1424.8

5847 9.5 203850.3 -1411.8  
 5848 10. 203909.0 -1414.3  
 5849 9.9 203916.5 -1436.2  
 5850 9.6 203934.1 -1456.8  
 5851 9.4 203953.2 -1406.3  
 5852 9.2 204017.6 -1401.1  
 5853 9.4 204022.0 -1407.0  
 5854 9.5 204027.5 -1428.6  
 5855 8.8 204033.6 -1404.4  
 5856 9.1 204043.0 -1404.3

5857 9.3 204107.0 -1424.9  
 5858 9.8 204108.2 -1407.2  
 5859 9.0 204127.1 -1432.1  
 5860 9.4 204138.1 -1457.3  
 5861 8.6 204154.8 -1410.6  
 5862 10. 204206.2 -1459.5  
 5863 9.9 204227.0 -1413.5  
 5864 8.0 204245.7 -1444.4  
 5865 9.7 204306.2 -1444.6  
 5866 8.0 204317.6 -1427.3

5867 8.5 204331.5 -1417.2  
 5868 10. 204342.7 -1446.1  
 5869 9.6 204353.6 -1430.8  
 5870 9.9 204418.1 -1420.3  
 5871 8.9 204432.6 -1418.3  
 5872 9.8 204448.6 -1439.1  
 5873 9.0 204500.3 -1448.6  
 5874 10. 204507.2 -1429.9  
 5875 7.8 204530.7 -1458.0  
 5876 9.3 204536.1 -1435.8

5877 10. 204548.2 -1415.7  
 5878 9.8 204553.1 -1417.0  
 5879 9.4 204615.2 -1417.0  
 5880 8.3 204616.7 -1442.8  
 5881 9.7 204629.0 -1448.6  
 5882 9.0 204641.6 -1421.7  
 5883 9.6 204643.4 -1400.7  
 5884 9.5 204648.1 -1400.5  
 5885 10. 204719.2 -1426.0  
 5886 9.4 204725.1 -1439.0

5887 9.5 204733.1 -1400.8  
 5888 9.3 204751.8 -1457.1  
 5889 10. 204802.2 -1433.1  
 5890 9.4 204808.4 -1404.2  
 5891 9.8 204811.2 -1439.7  
 5892 10. 204905.4 -1430.6  
 5893 9.0 204917.7 -1421.4  
 5894 10. 204952.8 -1425.7  
 5895 9.0 205003.8 -1411.1  
 5896 9.5 205007.7 -1417.7

5897 10. 205019.7 -1427.0  
 5898 9.5 205037.3 -1422.8  
 5899 9.5 205044.2 -1414.4  
 5900 9.6 205047.5 -1402.5  
 5901 8.8 205104.8 -1438.6  
 5902 8.8 205116.5 -1441.8  
 5903 10. 205152.2 -1435.5  
 5904 9.4 205157.0 -1429.3  
 5905 9.7 205200.5 -1456.6  
 5906 9.1 205215.1 -1430.0

5907 8.5 205215.9 -1403.3  
 5908 7.0 205303.2 -1405.5  
 5909 9.1 205321.4 -1456.5  
 5910 10. 205334.4 -1422.6  
 5911 9.0 205341.9 -1404.2  
 5912 9.9 205351.8 -1414.1  
 5913 10. 205355.5 -1455.2  
 5914 9.3 205406.9 -1434.9  
 5915 8.8 205436.5 -1441.7  
 5916 9.3 205444.2 -1450.2

5917 9.0 205454.2 -1456.9  
 5918 9.8 205456.4 -1429.8  
 5919 9.5 205502.3 -1428.9  
 5920 9.4 205525.2 -1413.8  
 5921 9.0 205538.4 -1437.3  
 5922 9.3 205543.6 -1442.3  
 5923 9.2 205553.9 -1433.5  
 5924 10. 205612.7 -1435.0  
 5925 8.9 205706.3 -1443.2  
 5926 10. 205720.8 -1446.7

5927 9.8 205729.9 -1422.5  
 5928 9.9 205731.4 -1425.7  
 5929 9.4 205737.1 -1456.6  
 5930 9.4 205747.7 -1404.3  
 5931 10. 205836.2 -1444.7  
 5932 8.0 205839.1 -1404.9  
 5933 9.9 205845.4 -1417.5  
 5934 9.6 205850.3 -1431.2  
 5935 9.4 205904.2 -1458.1  
 5936 7.2 205908.0 -1430.0

5937 9.0 205924.1 -1425.1  
 5938 9.4 205955.4 -1438.5  
 5939 9.2 210001.0 -1434.7  
 5940 7.8 210010.8 -1454.1  
 5941 9.3 210024.5 -1416.7  
 5942 8.7 210034.0 -1424.9  
 5943 9.7 210039.9 -1447.8  
 5944 9.5 210102.0 -1416.5  
 5945 8.9 210115.0 -1421.6  
 5946 7.7 210135.6 -1442.0

5947 9.1 210133.2 -1446.5  
 5948 9.3 210141.6 -1435.3  
 5949 8.2 210201.4 -1451.7  
 5950 9.5 210247.6 -1409.7  
 5951 8.8 210302.2 -1438.8  
 5952 9.5 210328.6 -1424.7  
 5953 10. 210333.1 -1428.4  
 5954 8.7 210355.9 -1417.5  
 5955 9.7 210356.1 -1423.5  
 5956 8.8 210358.0 -1428.0

5957 9.7 210406.6 -1446.8  
 5958 9.8 210421.5 -1426.6  
 5959 10. 210427.7 -1420.0  
 5960 8.5 210445.9 -1458.8  
 5961 10. 210448.0 -1440.1  
 5962 9.4 210514.6 -1409.1  
 5963 8.8 210516.9 -1416.4  
 5964 9.1 210517.2 -1427.4  
 5965 9.1 210517.9 -1457.5  
 5966 10. 210523.2 -1450.2

5967 9.1 210531.0 -1441.4  
 5968 9.8 210531.9 -1418.5  
 5969 9.5 210558.3 -1445.8  
 5970 8.6 210603.2 -1417.1  
 5971 9.4 210615.1 -1426.7  
 5972 9.4 210619.6 -1428.9  
 5973 8.7 210630.7 -1444.3  
 5974 9.1 210634.5 -1454.8  
 5975 9.2 210639.7 -1426.0  
 5976 10. 210711.7 -1446.9

5977 9.0 210805.3 -1403.6  
 5978 9.0 210819.3 -1409.5  
 5979 9.1 210819.9 -1437.6  
 5980 10. 210839.2 -1426.9  
 5981 9.8 210852.3 -1439.8  
 5982 9.8 210852.7 -1444.4  
 5983 9.4 210858.8 -1411.2  
 5984 9.3 210929.3 -1436.7  
 5985 9.5 210931.6 -1446.8  
 5986 9.2 210933.7 -1451.8

5987 9.1 210935.6 -1401.4  
 5988 10. 210950.9 -1423.4  
 5989 9.9 211024.2 -1439.1  
 5990 8.8 211038.0 -1439.0  
 5991 9.2 211043.3 -1436.4  
 5992 9.0 211106.8 -1436.0  
 5993 9.5 211114.3 -1413.2  
 5994 10. 211116.1 -1436.0  
 5995 9.6 211118.3 -1450.3  
 5996 9.0 211134.9 -1439.8



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 5997 | 6.7  | 211149.6 | -1437.3 | 6087 | 9.5  | 213019.6 | -1451.8 | 6177 | 9.5  | 215018.5 | -1425.9 | 6267 | 9.5  | 221444.4 | -1445.0 |
| 5998 | 9.4  | 211156.9 | -1450.0 | 6088 | 8.0  | 213020.5 | -1410.9 | 6178 | 9.4  | 215031.0 | -1454.8 | 6268 | 9.1  | 221452.8 | -1410.5 |
| 5999 | 7.5  | 211211.9 | -1406.3 | 6089 | 9.3  | 213038.0 | -1405.2 | 6179 | 10.1 | 215136.2 | -1438.2 | 6269 | 8.0  | 221520.8 | -1456.7 |
| 6000 | 10.1 | 211303.5 | -1432.3 | 6090 | 9.2  | 213041.5 | -1412.2 | 6180 | 9.6  | 215137.1 | -1433.2 | 6270 | 10.1 | 221531.9 | -1440.7 |
| 6001 | 9.7  | 211321.7 | -1403.3 | 6091 | 9.8  | 213045.7 | -1403.2 | 6181 | 8.8  | 215147.4 | -1407.0 | 6271 | 9.8  | 221608.0 | -1433.5 |
| 6002 | 9.5  | 211325.0 | -1457.8 | 6092 | 9.7  | 213056.7 | -1450.1 | 6182 | 10.1 | 215148.7 | -1450.9 | 6272 | 9.5  | 221608.7 | -1435.0 |
| 6003 | 9.0  | 211348.4 | -1439.1 | 6093 | 9.4  | 213112.6 | -1423.6 | 6183 | 9.4  | 215156.5 | -1459.2 | 6273 | 9.3  | 221613.1 | -1438.0 |
| 6004 | 9.2  | 211350.8 | -1409.8 | 6094 | 7.0  | 213120.1 | -1432.0 | 6184 | 9.8  | 215158.1 | -1445.2 | 6274 | 9.5  | 221623.1 | -1405.2 |
| 6005 | 10.1 | 211357.4 | -1451.3 | 6095 | 8.2  | 213120.2 | -1442.5 | 6185 | 9.8  | 215217.0 | -1430.2 | 6275 | 9.5  | 221633.4 | -1410.1 |
| 6006 | 9.5  | 211416.5 | -1410.1 | 6096 | 9.1  | 213156.0 | -1415.4 | 6186 | 9.5  | 215217.6 | -1444.3 | 6276 | 6.5  | 221641.7 | -1415.6 |
| 6007 | 8.9  | 211418.2 | -1402.3 | 6097 | 10.1 | 213157.5 | -1421.3 | 6187 | 7.5  | 215246.5 | -1451.3 | 6277 | 8.7  | 221717.3 | -1443.7 |
| 6008 | 9.8  | 211458.6 | -1445.1 | 6098 | 10.1 | 213226.6 | -1424.4 | 6188 | 7.3  | 215247.6 | -1426.3 | 6278 | 9.2  | 221719.0 | -1426.4 |
| 6009 | 9.8  | 211501.0 | -1416.3 | 6099 | 9.1  | 213256.5 | -1415.4 | 6189 | 9.3  | 215301.1 | -1430.1 | 6279 | 9.2  | 221722.7 | -1448.3 |
| 6010 | 7.8  | 211524.5 | -1407.6 | 6100 | 9.4  | 213316.4 | -1440.9 | 6190 | 8.9  | 215317.6 | -1453.1 | 6280 | 9.6  | 221730.0 | -1439.1 |
| 6011 | 9.5  | 211556.6 | -1430.7 | 6101 | 8.9  | 213326.2 | -1435.0 | 6191 | 9.0  | 215319.1 | -1434.2 | 6281 | 9.3  | 221759.4 | -1459.5 |
| 6012 | 9.6  | 211557.0 | -1403.0 | 6102 | 5.5  | 213338.8 | -1441.6 | 6192 | 10.1 | 215334.0 | -1423.1 | 6282 | 9.5  | 221759.6 | -1436.9 |
| 6013 | 9.2  | 211603.1 | -1419.0 | 6103 | 8.7  | 213350.4 | -1450.9 | 6193 | 9.9  | 215338.8 | -1410.6 | 6283 | 8.5  | 221839.0 | -1451.1 |
| 6014 | 9.6  | 211607.6 | -1444.2 | 6104 | 9.4  | 213411.1 | -1421.4 | 6194 | 9.5  | 215441.9 | -1446.4 | 6284 | 9.5  | 221907.4 | -1431.9 |
| 6015 | 9.1  | 211625.1 | -1426.0 | 6105 | 10.1 | 213423.4 | -1408.9 | 6195 | 9.8  | 215442.5 | -1412.1 | 6285 | 9.4  | 221907.5 | -1447.6 |
| 6016 | 9.0  | 211638.8 | -1450.8 | 6106 | 10.1 | 213424.2 | -1426.3 | 6196 | 9.5  | 215447.3 | -1436.3 | 6286 | 9.1  | 221932.5 | -1453.3 |
| 6017 | 10.1 | 211648.5 | -1411.5 | 6107 | 9.3  | 213447.5 | -1438.0 | 6197 | 9.8  | 215500.3 | -1401.1 | 6287 | 9.4  | 221955.7 | -1449.0 |
| 6018 | 8.9  | 211701.1 | -1459.0 | 6108 | 10.1 | 213448.2 | -1452.7 | 6198 | 9.7  | 215511.6 | -1443.7 | 6288 | 8.9  | 222054.6 | -1432.2 |
| 6019 | 8.5  | 211716.2 | -1406.8 | 6109 | 10.1 | 213500.7 | -1437.9 | 6199 | 9.5  | 215535.6 | -1423.9 | 6289 | 10.1 | 222105.2 | -1432.0 |
| 6020 | 7.2  | 211726.5 | -1453.8 | 6110 | 9.1  | 213506.1 | -1420.1 | 6200 | 9.8  | 215558.7 | -1454.6 | 6290 | 8.8  | 222117.1 | -1426.2 |
| 6021 | 9.4  | 211729.6 | -1413.8 | 6111 | 9.1  | 213529.8 | -1449.8 | 6201 | 9.6  | 215605.5 | -1446.3 | 6291 | 9.5  | 222120.1 | -1458.1 |
| 6022 | 8.9  | 211737.1 | -1434.2 | 6112 | 9.5  | 213549.6 | -1451.3 | 6202 | 9.9  | 215611.2 | -1412.9 | 6292 | 9.5  | 222146.7 | -1400.0 |
| 6023 | 9.1  | 211743.7 | -1459.7 | 6113 | 8.9  | 213607.2 | -1436.7 | 6203 | 9.1  | 215631.0 | -1445.7 | 6293 | 9.7  | 222153.9 | -1455.0 |
| 6024 | 9.1  | 211822.6 | -1411.7 | 6114 | 8.9  | 213652.3 | -1437.6 | 6204 | 10.1 | 215644.4 | -1439.6 | 6294 | 9.4  | 222208.1 | -1444.8 |
| 6025 | 9.5  | 211923.7 | -1426.9 | 6115 | 9.5  | 213722.2 | -1434.8 | 6205 | 9.0  | 215741.3 | -1428.3 | 6295 | 8.9  | 222246.8 | -1426.2 |
| 6026 | 7.3  | 211927.9 | -1412.6 | 6116 | 8.7  | 213725.7 | -1420.1 | 6206 | 9.5  | 215746.1 | -1413.6 | 6296 | 9.2  | 222300.6 | -1417.0 |
| 6027 | 9.3  | 211928.6 | -1440.8 | 6117 | 10.1 | 213728.4 | -1402.1 | 6207 | 9.8  | 215816.3 | -1459.0 | 6297 | 9.1  | 222333.7 | -1415.7 |
| 6028 | 9.3  | 211932.3 | -1444.0 | 6118 | 10.1 | 213734.8 | -1425.5 | 6208 | 9.1  | 215827.4 | -1440.9 | 6298 | 9.4  | 222345.7 | -1422.9 |
| 6029 | 9.0  | 211945.6 | -1411.3 | 6119 | 8.7  | 213735.7 | -1418.6 | 6209 | 4.5  | 215835.3 | -1423.6 | 6299 | 8.8  | 222351.8 | -1432.9 |
| 6030 | 8.6  | 211959.5 | -1403.2 | 6120 | 9.4  | 213741.9 | -1456.0 | 6210 | 8.6  | 215837.4 | -1447.4 | 6300 | 9.2  | 222418.9 | -1441.8 |
| 6031 | 8.2  | 212004.7 | -1419.4 | 6121 | 8.8  | 213754.4 | -1400.4 | 6211 | 9.3  | 215907.4 | -1435.8 | 6301 | 8.2  | 222425.2 | -1420.2 |
| 6032 | 9.4  | 212007.1 | -1403.3 | 6122 | 9.4  | 213837.8 | -1455.6 | 6212 | 9.2  | 215948.7 | -1442.3 | 6302 | 9.3  | 222428.7 | -1420.2 |
| 6033 | 9.8  | 212011.3 | -1458.3 | 6123 | 9.5  | 213839.9 | -1458.1 | 6213 | 9.5  | 215955.5 | -1437.1 | 6303 | 9.1  | 222440.6 | -1455.0 |
| 6034 | 9.8  | 212023.5 | -1423.6 | 6124 | 9.3  | 213857.6 | -1410.8 | 6214 | 8.5  | 216002.8 | -1417.4 | 6304 | 9.6  | 222452.7 | -1406.0 |
| 6035 | 9.3  | 212032.3 | -1455.0 | 6125 | 9.0  | 213919.7 | -1409.9 | 6215 | 9.4  | 216016.4 | -1417.2 | 6305 | 9.4  | 222532.6 | -1451.4 |
| 6036 | 9.7  | 212042.8 | -1456.4 | 6126 | 9.5  | 213931.8 | -1447.1 | 6216 | 9.5  | 216020.2 | -1450.7 | 6306 | 9.8  | 222553.2 | -1410.5 |
| 6037 | 9.3  | 212059.7 | -1431.7 | 6127 | 9.6  | 213945.0 | -1424.9 | 6217 | 9.5  | 216029.8 | -1405.6 | 6307 | 9.6  | 222619.5 | -1449.6 |
| 6038 | 8.3  | 212108.2 | -1425.6 | 6128 | 8.5  | 214039.0 | -1450.0 | 6218 | 7.2  | 216057.6 | -1400.2 | 6308 | 9.1  | 222645.2 | -1410.6 |
| 6039 | 7.0  | 212143.1 | -1439.5 | 6129 | 9.8  | 214055.3 | -1449.7 | 6219 | 9.5  | 216104.1 | -1416.8 | 6309 | 9.5  | 222658.0 | -1408.6 |
| 6040 | 9.5  | 212152.3 | -1452.4 | 6130 | 9.4  | 214057.4 | -1425.0 | 6220 | 9.4  | 216108.8 | -1455.0 | 6310 | 9.8  | 222815.2 | -1420.4 |
| 6041 | 9.4  | 212152.9 | -1419.0 | 6131 | 9.0  | 214100.4 | -1423.9 | 6221 | 9.5  | 216129.4 | -1402.7 | 6311 | 9.8  | 222815.2 | -1420.4 |
| 6042 | 9.3  | 212157.8 | -1451.3 | 6132 | 9.8  | 214115.9 | -1421.1 | 6222 | 9.0  | 216152.9 | -1418.8 | 6312 | 8.4  | 222828.3 | -1447.0 |
| 6043 | 9.5  | 212204.8 | -1458.6 | 6133 | 8.2  | 214135.1 | -1415.7 | 6223 | 8.2  | 216156.3 | -1435.7 | 6313 | 10.1 | 222851.7 | -1405.3 |
| 6044 | 9.7  | 212214.1 | -1447.4 | 6134 | 9.5  | 214136.1 | -1445.7 | 6224 | 9.0  | 216248.5 | -1428.1 | 6314 | 9.5  | 222852.5 | -1442.4 |
| 6045 | 9.1  | 212237.1 | -1447.2 | 6135 | 9.5  | 214152.4 | -1449.5 | 6225 | 9.5  | 216231.0 | -1408.9 | 6315 | 8.0  | 222829.4 | -1425.2 |
| 6046 | 9.1  | 212240.5 | -1448.4 | 6136 | 9.7  | 214208.6 | -1402.5 | 6226 | 9.7  | 216234.8 | -1442.9 | 6316 | 9.5  | 222944.0 | -1443.5 |
| 6047 | 7.0  | 212243.3 | -1455.5 | 6137 | 9.8  | 214215.9 | -1406.3 | 6227 | 9.2  | 216241.5 | -1445.9 | 6317 | 8.5  | 223010.8 | -1407.5 |
| 6048 | 9.3  | 212254.8 | -1417.6 | 6138 | 9.5  | 214218.8 | -1450.5 | 6228 | 8.3  | 216242.1 | -1456.5 | 6318 | 10.1 | 223028.0 | -1428.1 |
| 6049 | 9.3  | 212307.5 | -1417.1 | 6139 | 9.8  | 214228.1 | -1408.2 | 6229 | 6.5  | 216243.9 | -1454.4 | 6319 | 8.7  | 223046.3 | -1448.3 |
| 6050 | 9.3  | 212344.2 | -1407.6 | 6140 | 9.8  | 214235.0 | -1436.1 | 6230 | 9.3  | 216243.9 | -1409.9 | 6320 | 7.9  | 223050.9 | -1449.1 |
| 6051 | 9.1  | 212348.3 | -1408.2 | 6141 | 9.5  | 214254.3 | -1421.5 | 6231 | 9.0  | 216250.0 | -1436.2 | 6321 | 9.3  | 223052.2 | -1446.9 |
| 6052 | 9.5  | 212350.9 | -1426.8 | 6142 | 9.4  | 214310.8 | -1409.7 | 6232 | 8.9  | 216250.1 | -1411.2 | 6322 | 9.6  | 223058.1 | -1409.8 |
| 6053 | 10.1 | 212412.4 | -1426.4 | 6143 | 9.3  | 214336.4 | -1415.5 | 6233 | 8.0  | 216251.6 | -1434.9 | 6323 | 9.8  | 223141.6 | -1434.6 |
| 6054 | 10.1 | 212426.6 | -1444.1 | 6144 | 8.2  | 214342.3 | -1410.4 | 6234 | 9.8  | 216259.7 | -1439.1 | 6324 | 9.1  | 223224.0 | -1423.2 |
| 6055 | 9.0  | 212426.9 | -1453.5 | 6145 | 8.6  | 214359.0 | -1426.5 | 6235 | 10.1 | 216253.8 | -1419.3 | 6325 | 9.3  | 223246.5 | -1413.3 |
| 6056 | 9.4  | 212431.3 | -1427.6 | 6146 | 9.8  | 214413.6 | -1450.1 | 6236 | 9.5  | 216253.1 | -1457.0 | 6326 | 9.0  | 223233.0 | -1436.4 |
| 6057 | 9.3  | 212444.0 | -1450.9 | 6147 | 9.4  | 214440.0 | -1402.3 | 6237 | 9.2  | 216264.1 | -1413.7 | 6327 | 9.6  | 223417.8 | -1401.7 |
| 6058 | 8.7  | 212444.4 | -1404.3 | 6148 | 8.8  | 214456.5 | -1436.5 | 6238 | 10.1 | 216274.5 | -1418.9 | 6328 | 9.4  | 223441.1 | -1417.2 |
| 6059 | 8.8  | 212452.5 | -1405.9 | 6149 | 5.0  | 214525.2 | -1413.9 | 6239 | 10.1 | 216275.9 | -1443.9 | 6329 | 9.7  | 223527.2 | -1436.8 |
| 6060 | 9.8  | 212456.4 | -1450.1 | 6150 | 7.5  | 214529.1 | -1451.9 | 6240 | 10.1 | 216275.4 | -1439.4 | 6330 | 9.4  | 223532.8 | -1432.1 |
| 6061 | 10.1 | 212504.4 | -1426.0 | 6151 | 9.3  | 214533.8 | -1408.4 | 6241 | 9.5  | 216281.5 | -1454.4 | 6331 | 9.5  | 223545.8 | -1441.8 |
| 6062 | 9.3  | 212511.8 | -1410.9 | 6152 | 9.5  | 214559.0 | -1412.0 | 6242 | 8.1  | 216283.7 | -1445.7 | 6332 | 9.3  | 223549.2 | -1425.1 |
| 6063 | 8.0  | 212539.2 | -1405.2 | 6153 | 9.0  | 214603.0 | -1437.5 | 6243 | 9.5  | 216290.4 | -1427.5 | 6333 | 9.8  | 223613.5 | -1406.2 |
| 6064 | 9.4  | 212547.9 | -1443.1 | 6154 | 10.1 | 214606.6 | -1417.4 | 6244 | 9.8  | 216291.2 | -1430.7 | 6334 | 9.1  | 223622.2 | -1424.9 |
| 6065 | 9.3  | 212549.6 | -1422.5 | 6155 | 9.1  | 214610.6 | -1457.0 | 6245 | 8.5  | 216292.0 | -1454.9 | 6335 | 9.2  | 223639.1 | -1412.0 |
| 6066 | 9.1  | 212550.5 | -1409.4 | 6156 | 10.1 | 214625.0 | -1439.0 | 6246 | 10.1 | 216292.5 | -1456.8 | 6336 | 9.0  | 223709.2 | -1421.2 |
| 6067 | 9.3  | 212606.8 | -1459.9 | 6157 | 9.5  | 214642.7 | -1441.4 | 6247 | 9.0  | 216292.6 | -1452.6 | 6337 | 8.7  | 223716.1 | -1424.0 |
| 6068 | 9.6  | 212606.9 | -1445.4 | 6158 | 9.3  | 214715.1 | -1450.9 | 6248 | 10.1 | 216100.2 | -1436.5 | 6338 | 9.1  | 223717.1 | -1421.9 |
| 6069 | 9.7  | 212608.5 | -1434.6 | 6159 | 10.1 |          |         |      |      |          |         |      |      |          |         |



6357 9.2 224248.2 -1404.4  
 6358 9.8 224355.6 -1422.1  
 6359 8.0 224358.9 -1437.7  
 6360 9.2 224420.5 -1431.5  
 6361 9.8 224431.1 -1402.6  
 6362 9.2 224522.0 -1449.1  
 6363 9.9 224545.3 -1447.1  
 6364 9.2 224605.2 -1437.2  
 6365 9.8 224620.5 -1417.6  
 6366 8.8 224719.0 -1448.9

6367 8.3 224743.7 -1430.8  
 6368 8.7 224815.2 -1431.2  
 6369 9.7 224817.3 -1442.1  
 6370 8.2 224830.6 -1419.8  
 6371 10. 224832.8 -1437.5  
 6372 10. 224933.0 -1409.5  
 6373 9.3 224977.4 -1445.1  
 6374 9.8 224932.5 -1412.7  
 6375 9.5 224942.2 -1449.1  
 6376 9.3 225005.2 -1429.5

6377 10. 225024.9 -1440.4  
 6378 9.3 225026.1 -1423.9  
 6379 9.3 225030.7 -1427.0  
 6380 9.8 225207.4 -1453.0  
 6381 9.8 225209.5 -1444.1  
 6382 9.1 225219.4 -1438.0  
 6383 9.2 225226.3 -1427.1  
 6384 10. 225245.2 -1439.1  
 6385 10. 225246.5 -1446.3  
 6386 9.4 225255.9 -1444.8

6387 9.1 225332.1 -1408.8  
 6388 9.4 225343.1 -1430.5  
 6389 9.0 225352.2 -1445.0  
 6390 9.3 225411.3 -1420.8  
 6391 10. 225419.8 -1416.9  
 6392 9.3 225444.1 -1403.7  
 6393 9.5 225452.2 -1458.5  
 6394 9.2 225454.2 -1437.8  
 6395 8.9 225503.8 -1406.9  
 6396 8.6 225514.3 -1406.1

6397 9.0 225553.7 -1408.0  
 6398 8.9 225616.4 -1446.6  
 6399 8.6 225646.1 -1455.1  
 6400 9.2 225705.0 -1439.1  
 6401 9.5 225716.0 -1434.4  
 6402 9.9 225723.0 -1404.7  
 6403 9.7 225734.1 -1444.3  
 6404 9.3 225745.3 -1416.5  
 6405 10. 225840.7 -1440.5  
 6406 8.8 225844.5 -1426.9

6407 8.6 225852.1 -1432.5  
 6408 9.4 225918.0 -1425.5  
 6409 10. 225918.2 -1449.8  
 6410 9.3 230017.5 -1420.0  
 6411 9.3 230106.6 -1413.5  
 6412 8.8 230123.2 -1430.0  
 6413 7.5 230243.0 -1425.3  
 6414 9.5 230246.6 -1429.3  
 6415 8.7 230249.0 -1405.5  
 6416 8.8 230303.4 -1410.0

6417 9.0 230332.2 -1440.9  
 6418 9.3 230349.5 -1415.5  
 6419 9.0 230403.7 -1447.2  
 6420 9.5 230407.8 -1428.9  
 6421 9.4 230559.3 -1409.3  
 6422 9.3 230609.9 -1447.4  
 6423 9.5 230610.0 -1421.4  
 6424 6.8 230612.1 -1410.7  
 6425 9.8 230621.9 -1410.2  
 6426 9.5 230624.8 -1450.7

6427 9.1 230655.1 -1411.6  
 6428 9.1 230711.3 -1425.0  
 6429 7.9 230744.8 -1448.1  
 6430 9.5 230745.8 -1456.2  
 6431 9.0 230746.1 -1409.1  
 6432 9.8 230757.6 -1440.0  
 6433 9.2 230817.1 -1412.2  
 6434 9.1 230828.7 -1411.0  
 6435 9.5 230847.2 -1404.1  
 6436 9.5 230929.9 -1427.5

6437 8.2 230933.5 -1436.2  
 6438 7.5 230953.4 -1425.5  
 6439 9.9 231012.5 -1428.4  
 6440 8.7 231018.9 -1401.0  
 6441 6.8 231021.4 -1435.0  
 6442 9.5 231043.3 -1457.2  
 6443 8.8 231045.8 -1440.7  
 6444 10. 231046.5 -1416.5  
 6445 9.5 231048.0 -1433.1  
 6446 9.4 231104.6 -1438.1

6447 8.8 231120.1 -1439.2  
 6448 5.3 231130.0 -1414.4  
 6449 9.8 231130.0 -1410.6  
 6450 7.7 231200.7 -1451.4  
 6451 10. 231217.8 -1410.5  
 6452 9.5 231257.9 -1441.4  
 6453 7.3 231340.7 -1403.6  
 6454 10. 231347.2 -1448.6  
 6455 8.3 231351.0 -1427.2  
 6456 8.4 231358.4 -1449.4

6457 9.1 231426.7 -1447.5  
 6458 9.5 231434.5 -1421.6  
 6459 10. 231447.1 -1454.0  
 6460 8.5 231501.7 -1441.0  
 6461 9.0 231526.4 -1417.0  
 6462 9.4 231540.6 -1458.5  
 6463 9.8 231602.6 -1402.3  
 6464 10. 231620.9 -1441.1  
 6465 10. 231623.0 -1445.8  
 6466 8.9 231720.0 -1416.5

6467 7.8 231750.5 -1444.8  
 6468 9.7 231800.7 -1456.6  
 6469 9.5 231809.0 -1412.7  
 6470 9.0 231817.1 -1454.9  
 6471 9.0 231847.2 -1425.7  
 6472 9.3 231915.2 -1426.5  
 6473 9.7 231938.2 -1443.9  
 6474 9.3 231950.7 -1422.9  
 6475 8.6 232111.4 -1450.0  
 6476 9.4 232158.0 -1423.0

6477 9.2 232200.9 -1406.8  
 6478 8.6 232242.3 -1446.3  
 6479 8.7 232313.2 -1406.2  
 6480 9.5 232340.9 -1424.6  
 6481 8.9 232343.2 -1411.9  
 6482 10. 232427.7 -1407.2  
 6483 8.9 232434.3 -1445.2  
 6484 8.8 232446.4 -1425.0  
 6485 8.6 232450.8 -1405.7  
 6486 9.1 232451.0 -1427.3

6487 8.5 232546.9 -1456.8  
 6488 9.7 232614.2 -1406.1  
 6489 9.2 232614.3 -1422.5  
 6490 9.1 232628.4 -1417.7  
 6491 9.5 232634.2 -1429.9  
 6492 8.3 232639.5 -1423.2  
 6493 9.5 232658.6 -1409.9  
 6494 10. 232751.9 -1409.9  
 6495 10. 232753.9 -1441.2  
 6496 8.5 232813.7 -1415.1

6497 9.7 232817.0 -1435.4  
 6498 9.3 232841.1 -1433.2  
 6499 8.3 232845.0 -1416.4  
 6500 9.4 232849.5 -1415.1  
 6501 9.5 232859.9 -1408.8  
 6502 8.9 232921.6 -1421.3  
 6503 9.8 232923.2 -1413.5  
 6504 8.6 232933.1 -1421.7  
 6505 9.7 232934.4 -1405.0  
 6506 7.8 232950.5 -1408.1

6507 10. 232953.4 -1404.3  
 6508 10. 233028.4 -1443.0  
 6509 8.0 233102.2 -1430.7  
 6510 9.8 233108.3 -1434.1  
 6511 9.8 233129.8 -1401.3  
 6512 9.9 233136.2 -1435.2  
 6513 10. 233136.5 -1411.8  
 6514 9.6 233141.4 -1450.6  
 6515 10. 233201.0 -1445.0  
 6516 9.7 233216.3 -1445.9

6517 9.1 233236.0 -1406.7  
 6518 9.5 233238.1 -1413.4  
 6519 9.9 233241.8 -1402.5  
 6520 9.4 233258.0 -1440.6  
 6521 9.5 233259.1 -1436.5  
 6522 9.4 233310.2 -1431.8  
 6523 8.3 233347.6 -1416.9  
 6524 9.6 233412.2 -1404.7  
 6525 9.5 233412.8 -1417.2  
 6526 9.5 233418.7 -1400.0

6527 9.4 233431.7 -1441.8  
 6528 10. 233433.4 -1418.1  
 6529 9.5 233446.0 -1436.4  
 6530 9.1 233452.3 -1452.4  
 6531 9.2 233515.1 -1427.4  
 6532 10. 233515.9 -1423.1  
 6533 9.8 233526.8 -1453.8  
 6534 8.9 233622.7 -1438.0  
 6535 9.0 233703.0 -1412.5  
 6536 7.5 233752.6 -1428.9

6537 9.7 233820.2 -1422.2  
 6538 9.6 233827.6 -1418.5  
 6539 7.8 233830.5 -1415.8  
 6540 7.9 233849.5 -1409.7  
 6541 9.8 233906.2 -1428.7  
 6542 10. 233915.1 -1420.2  
 6543 9.8 233916.2 -1432.3  
 6544 9.8 233925.0 -1441.1  
 6545 10. 233931.1 -1430.0  
 6546 9.2 233931.8 -1455.5

6547 9.8 233944.4 -1441.5  
 6548 9.5 233945.7 -1416.6  
 6549 10. 234025.6 -1409.9  
 6550 7.6 234027.7 -1443.0  
 6551 9.4 234054.1 -1400.6  
 6552 8.5 234110.0 -1441.3  
 6553 9.0 234126.5 -1458.0  
 6554 9.8 234134.1 -1416.1  
 6555 10. 234137.1 -1436.4  
 6556 9.5 234141.3 -1407.3

6557 8.8 234148.3 -1421.6  
 6558 8.7 234148.4 -1406.3  
 6559 9.6 234202.2 -1407.9  
 6560 10. 234255.2 -1406.5  
 6561 9.8 234327.9 -1431.0  
 6562 9.4 234346.2 -1410.9  
 6563 8.1 234410.2 -1447.2  
 6564 9.0 234436.3 -1439.9  
 6565 9.8 234449.8 -1403.0  
 6566 9.3 234502.5 -1454.3

6567 8.2 234521.2 -1453.5  
 6568 9.6 234533.7 -1406.5  
 6569 10. 234542.5 -1404.0  
 6570 9.8 234548.3 -1410.0  
 6571 10. 234630.3 -1412.4  
 6572 9.0 234635.4 -1448.6  
 6573 9.5 234643.8 -1426.0  
 6574 9.5 234703.4 -1431.9  
 6575 9.3 234734.3 -1442.2  
 6576 9.9 234738.5 -1426.1

6577 8.4 234802.1 -1433.0  
 6578 9.4 234802.3 -1439.3  
 6579 7.5 234820.4 -1446.5  
 6580 9.8 234826.0 -1421.9  
 6581 8.3 234848.6 -1419.2  
 6582 9.7 234849.4 -1446.2  
 6583 9.7 234850.8 -1452.8  
 6584 9.7 234940.1 -1449.0  
 6585 9.1 234949.8 -1448.3  
 6586 9.8 235032.5 -1428.8

6587 10. 235058.4 -1406.0  
 6588 7.0 235107.5 -1456.0  
 6589 9.4 235116.0 -1412.7  
 6590 8.7 235140.2 -1445.3  
 6591 9.8 235149.2 -1407.9  
 6592 8.8 235158.9 -1407.1  
 6593 9.8 235224.0 -1413.0  
 6594 9.5 235236.0 -1456.8  
 6595 9.5 235243.7 -1429.8  
 6596 9.5 235248.2 -1431.8

6597 8.6 235254.1 -1411.9  
 6598 9.5 235328.0 -1404.2  
 6599 9.8 235351.2 -1429.6  
 6600 9.3 235405.6 -1437.5  
 6601 9.7 235435.9 -1412.0  
 6602 9.9 235436.9 -1442.1  
 6603 6.5 235448.7 -1413.2  
 6604 9.4 235453.6 -1458.7  
 6605 8.8 235455.7 -1414.3  
 6606 9.5 235504.1 -1452.9

6607 9.8 235534.2 -1416.8  
 6608 9.0 235607.6 -1402.2  
 6609 9.0 235615.1 -1453.5  
 6610 9.4 235620.3 -1405.5  
 6611 8.8 235627.0 -1429.5  
 6612 9.2 235629.7 -1414.7  
 6613 9.3 235630.7 -1408.1  
 6614 9.3 235735.2 -1408.3  
 6615 9.3 235802.8 -1410.7  
 6616 10. 235822.4 -1419.3

6617 9.5 235827.2 -1454.5  
 6618 9.8 235854.8 -1443.0  
 6619 8.8 235921.0 -1433.0  
 6620 9.3 235956.5 -1436.5  
 6621 9.8 235956.6 -1411.2  
 1 9.6 00021.0 -1527.3  
 2 9.1 00026.3 -1527.2  
 3 8.3 00034.1 -1501.8  
 4 9.2 00037.5 -1525.7  
 5 9.5 00049.4 -1540.0

6 9.2 00051.4 -1512.1  
 7 7.0 00052.9 -1538.0  
 8 9.1 00100.0 -1543.7  
 9 9.1 00116.4 -1515.3  
 10 8.8 00125.1 -1554.7  
 11 8.8 00156.1 -1522.8  
 12 8.5 00210.0 -1519.4  
 13 9.5 00226.5 -1506.0  
 14 8.5 00229.3 -1525.0  
 15 9.8 00233.7 -1509.1

16 8.6 00243.6 -1558.5  
 17 8.8 00251.8 -1528.4  
 18 8.0 00301.2 -1515.0  
 19 9.5 00350.0 -1501.9  
 20 9.5 00403.3 -1529.3  
 21 9.9 00429.7 -1525.7  
 22 8.6 00450.8 -1525.9  
 23 9.4 00507.0 -1529.7  
 24 9.5 00537.7 -1552.3  
 25 10. 00610.6 -1516.5

26 9.0 00614.2 -1544.9  
 27 9.6 00632.5 -1528.7  
 28 8.5 00653.7 -1515.0  
 29 10. 00702.7 -1541.3  
 30 7.0 00705.1 -1513.9  
 31 9.5 00706.6 -1507.1  
 32 6.7 00715.7 -1536.7  
 33 9.8 00734.6 -1525.9  
 34 9.0 00810.0 -1501.9  
 35 9.3 00813.0 -1526.7

36 9.1 00848.0 -1523.9  
 37 9.8 00848.4 -1532.2  
 38 8.0 00855.5 -1517.0  
 39 9.5 00919.2 -1555.2  
 40 9.3 00925.1 -1515.3  
 41 8.3 00930.7 -1531.6  
 42 8.8 00940.6 -1509.3  
 43 9.4 00941.4 -1530.4  
 44 8.9 00951.8 -1548.1  
 45 10. 00952.9 -1559.0

46 9.0 01002.2 -1536.6  
 47 9.4 01024.0 -1525.1  
 48 9.1 01026.5 -1542.3  
 49 8.5 01042.1 -1507.2  
 50 9.6 01150.2 -1553.0  
 51 9.8 01155.9 -1528.4  
 52 8.8 01200.6 -1538.5  
 53 9.3 01224.6 -1539.8  
 54 9.8 01227.2 -1507.0  
 55 9.1 01233.5 -1516.6

56 9.4 01332.5 -1520.1  
 57 9.5 01432.6 -1535.8  
 58 8.8 01543.0 -1535.8  
 59 9.8 01622.6 -1543.1  
 60 8.5 01634.4 -1509.0  
 61 9.1 01654.3 -1504.5  
 62 10. 01712.4 -1509.7  
 63 9.0 01726.4 -1532.0  
 64 9.2 01742.3 -1555.8  
 65 9.8 01744.7 -1529.5

66 10. 01815.1 -1530.9  
 67 10. 01827.9 -1516.8  
 68 9.8 01846.0 -1522.9  
 69 9.5 01935.7 -1556.8  
 70 8.2 01951.5 -1503.4  
 71 9.6 02026.4 -1545.0  
 72 9.5 02031.5 -1511.6  
 73 9.6 02031.5 -1500.2  
 74 8.8 02124.0 -1512.6  
 75 9.7 02126.1 -1534.8

76 10. 02140.6 -1511.6  
 77 10. 02149.1 -1525.4  
 78 8.0 02154.4 -1552.1  
 79 9.4 02200.0 -1500.7  
 80 9.1 02207.8 -1534.1  
 81 9.4 02211.4 -1512.0  
 82 9.7 02225.8 -1511.6  
 83 10. 02226.1 -1557.5  
 84 6.2 02231.0 -1539.8  
 85 8.7 02239.8 -1513.4

86 9.1 02307.6 -1555.2  
 87 9.4 02321.7 -1520.5  
 88 9.3 02323.8 -1528.9  
 89 9.8 02327.9 -1546.8  
 90 9.5 02357.7 -1512.2  
 91 9.4 02415.5 -1545.9  
 92 9.4 02422.0 -1543.1  
 93 9.7 02442.2 -1529.6  
 94 10. 02459.7 -1508.4  
 95 8.9 02519.5 -1542.3



96 9.7 02530.3 -1533.0  
 97 9.7 02601.2 -1558.7  
 98 9.0 02623.3 -1505.3  
 99 9.0 02624.7 -1507.8  
 100 9.4 02625.3 -1527.5  
 101 9.8 02651.6 -1540.5  
 102 9.7 02720.9 -1528.1  
 103 9.0 02750.6 -1537.4  
 104 9.8 02805.0 -1531.1  
 105 8.3 02820.4 -1531.8

106 9.2 02829.4 -1517.1  
 107 9.1 02839.7 -1522.5  
 108 9.6 02843.8 -1533.6  
 109 6.8 02845.2 -1546.1  
 110 9.3 02854.6 -1539.0  
 111 9.2 02923.4 -1530.1  
 112 9.3 03023.8 -1524.9  
 113 9.5 03029.0 -1520.7  
 114 9.8 03031.8 -1506.2  
 115 9.4 03103.3 -1547.8

116 8.5 03120.5 -1501.8  
 117 10. 03220.1 -1523.8  
 118 8.6 03232.4 -1505.9  
 119 9.3 03234.8 -1531.8  
 120 9.5 03316.4 -1548.5  
 121 9.5 03317.3 -1553.3  
 122 9.5 03317.4 -1549.1  
 123 9.8 03318.0 -1545.9  
 124 9.7 03325.9 -1548.2  
 125 9.9 03326.3 -1541.7

126 9.7 03341.5 -1523.4  
 127 9.5 03420.0 -1552.8  
 128 9.3 03456.9 -1551.4  
 129 9.8 03511.7 -1521.4  
 130 9.8 03513.6 -1514.3  
 131 9.5 03535.6 -1508.9  
 132 9.3 03558.7 -1529.0  
 133 10. 03614.0 -1531.0  
 134 9.8 03629.9 -1526.8  
 135 8.1 03701.7 -1501.8

136 9.0 03816.4 -1531.3  
 137 9.0 03818.7 -1507.7  
 138 9.1 03902.1 -1530.1  
 139 9.0 03941.1 -1533.3  
 140 9.3 03947.6 -1546.0  
 141 9.3 03952.3 -1512.8  
 142 9.1 03958.1 -1543.9  
 143 9.5 04002.9 -1551.5  
 144 9.3 04010.6 -1513.7  
 145 8.4 04057.2 -1505.9

146 8.0 04117.9 -1532.2  
 147 9.8 04148.6 -1536.1  
 148 9.1 04149.8 -1525.3  
 149 9.6 04243.7 -1523.5  
 150 9.3 04301.9 -1535.1  
 151 9.5 04318.7 -1551.4  
 152 8.6 04380.3 -1537.6  
 153 9.5 04334.5 -1502.3  
 154 9.0 04343.4 -1557.5  
 155 9.5 04401.0 -1528.1

156 9.1 04419.3 -1540.0  
 157 9.4 04440.0 -1502.5  
 158 9.0 04449.8 -1539.1  
 159 9.4 04553.4 -1531.5  
 160 8.6 04614.8 -1538.5  
 161 9.5 04625.6 -1548.3  
 162 9.3 04632.6 -1520.9  
 163 8.9 04643.9 -1525.4  
 164 9.8 04715.0 -1525.6  
 165 9.7 04724.5 -1529.4

166 9.8 04749.4 -1536.1  
 167 10. 04829.1 -1552.8  
 168 9.1 04833.0 -1508.6  
 169 9.6 04835.4 -1522.4  
 170 10. 04908.8 -1534.7  
 171 8.0 04919.1 -1527.2  
 172 8.2 04943.1 -1554.2  
 173 9.5 04957.5 -1538.1  
 174 9.3 05004.7 -1536.3  
 175 8.5 05019.7 -1539.4

176 9.1 05040.3 -1559.9  
 177 9.9 05126.1 -1553.8  
 178 9.0 05135.5 -1528.1  
 179 9.1 05138.6 -1556.3  
 180 9.8 05204.1 -1529.5  
 181 9.5 05205.2 -1504.7  
 182 9.6 05212.8 -1519.9  
 183 9.2 05247.9 -1532.1  
 184 10. 05250.7 -1513.1  
 185 9.4 05310.6 -1535.6

186 9.7 05401.1 -1547.0  
 187 9.2 05434.7 -1544.8  
 188 9.8 05449.3 -1515.1  
 189 9.9 05539.7 -1539.5  
 190 9.5 05616.4 -1531.9  
 191 8.5 05617.9 -1517.2  
 192 9.3 05656.0 -1522.2  
 193 9.6 05722.9 -1502.0  
 194 8.5 05758.3 -1541.0  
 195 9.4 05807.0 -1507.4

196 8.5 05826.0 -1517.8  
 197 9.5 05828.4 -1559.9  
 198 9.8 05832.8 -1527.1  
 199 9.0 05835.7 -1539.6  
 200 8.9 05913.0 -1504.6  
 201 10. 05918.3 -1537.2  
 202 9.4 10013.1 -1513.2  
 203 9.1 10033.9 -1540.5  
 204 9.1 10055.9 -1530.5  
 205 9.3 10164.0 -1500.0

206 8.6 10114.6 -1557.0  
 207 10. 10121.7 -1558.2  
 208 9.6 10243.5 -1551.3  
 209 9.2 10245.0 -1539.5  
 210 7.2 10245.2 -1501.3  
 211 7.3 10256.1 -1511.6  
 212 9.6 10306.7 -1504.2  
 213 9.5 10334.2 -1504.2  
 214 9.4 10404.1 -1512.2  
 215 9.8 10404.9 -1504.4

216 9.8 10413.0 -1540.1  
 217 8.0 10444.3 -1519.6  
 218 9.8 10504.2 -1552.3  
 219 9.1 10508.8 -1512.4  
 220 10. 10510.1 -1522.0  
 221 9.1 10545.8 -1529.7  
 222 8.9 10547.8 -1532.1  
 223 9.3 10551.3 -1502.4  
 224 9.1 10552.1 -1525.1  
 225 9.8 10552.4 -1543.9

226 9.4 10628.7 -1516.0  
 227 10. 10633.9 -1536.1  
 228 9.4 10636.8 -1502.3  
 229 9.0 10643.1 -1537.7  
 230 9.0 10700.2 -1547.0  
 231 10. 10707.6 -1531.4  
 232 8.7 10721.4 -1502.8  
 233 8.2 10800.3 -1555.3  
 234 9.6 10813.4 -1510.4  
 235 9.2 10838.5 -1527.2

236 9.3 10909.7 -1513.0  
 237 10. 10911.8 -1543.7  
 238 9.0 10940.4 -1522.8  
 239 9.0 10948.3 -1549.7  
 240 9.5 11014.1 -1551.3  
 241 9.1 11017.2 -1510.7  
 242 9.4 11109.9 -1524.8  
 243 9.8 11144.9 -1549.9  
 244 8.7 11154.7 -1536.5  
 245 9.0 11203.7 -1522.5

246 9.4 11231.7 -1506.1  
 247 8.0 11241.4 -1540.5  
 248 10. 11257.5 -1552.2  
 249 9.9 11321.0 -1559.9  
 250 9.2 11356.0 -1520.4  
 251 9.4 11413.5 -1525.6  
 252 9.6 11422.5 -1547.9  
 253 9.7 11435.7 -1530.6  
 254 9.2 11440.0 -1548.4  
 255 8.9 11622.9 -1508.2

256 9.9 11639.5 -1529.1  
 257 9.3 11643.5 -1502.6  
 258 9.6 11645.6 -1542.4  
 259 9.5 11648.7 -1553.8  
 260 9.5 11649.4 -1557.7  
 261 10. 11658.2 -1532.7  
 262 9.3 11807.5 -1527.5  
 263 8.0 11810.9 -1544.6  
 264 9.1 11822.9 -1530.0  
 265 9.8 11827.0 -1504.3

266 5.3 11828.9 -1521.3  
 267 9.6 11851.2 -1559.8  
 268 9.5 11927.8 -1552.2  
 269 9.1 11936.2 -1547.0  
 270 9.8 12014.6 -1526.2  
 271 10. 12024.0 -1507.5  
 272 9.9 12104.2 -1509.1  
 273 8.5 12119.9 -1554.9  
 274 9.0 12322.5 -1510.5  
 275 9.2 12408.7 -1530.7

276 10. 12439.0 -1548.0  
 277 9.5 12439.0 -1539.7  
 278 9.1 12447.4 -1552.1  
 279 7.8 12506.3 -1514.3  
 280 9.8 12517.9 -1539.5  
 281 9.3 12641.7 -1542.4  
 282 9.0 12740.3 -1540.9  
 283 8.5 12759.8 -1509.7  
 284 9.3 12759.9 -1513.9  
 285 9.4 12838.0 -1556.9

286 10. 12842.6 -1521.6  
 287 9.7 12852.5 -1526.6  
 288 9.1 12914.1 -1554.3  
 289 8.0 12943.6 -1507.8  
 290 10. 13001.5 -1546.9  
 291 9.0 13046.2 -1540.3  
 292 9.8 13220.5 -1508.4  
 293 8.6 13223.8 -1526.8  
 294 10. 13224.5 -1516.2  
 295 9.9 13229.7 -1553.3

296 9.8 13242.2 -1552.4  
 297 7.8 13244.5 -1537.0  
 298 9.0 13277.8 -1557.3  
 299 9.2 13429.0 -1521.3  
 300 9.0 13437.0 -1504.1  
 301 9.8 13458.5 -1523.8  
 302 9.1 13455.7 -1546.7  
 303 9.7 13556.2 -1547.6  
 304 8.0 13556.6 -1513.2  
 305 9.0 13632.7 -1504.0

306 9.5 13645.0 -1530.8  
 307 7.3 13805.0 -1517.4  
 308 9.3 13805.6 -1526.5  
 309 8.8 13831.2 -1554.2  
 310 10. 13834.5 -1515.9  
 311 9.8 13845.9 -1521.2  
 312 9.4 13858.8 -1503.7  
 313 9.8 13905.9 -1507.6  
 314 10. 13948.8 -1507.3  
 315 9.8 14001.0 -1537.0

316 9.7 14047.6 -1521.4  
 317 9.8 14053.0 -1514.5  
 318 8.5 14083.7 -1523.6  
 319 9.8 14113.4 -1533.5  
 320 9.1 14119.0 -1540.8  
 321 7.3 14133.7 -1529.3  
 322 9.2 14135.0 -1523.3  
 323 9.5 14141.6 -1526.7  
 324 9.0 14233.2 -1548.7  
 325 9.5 14366.5 -1532.1

326 8.7 14406.5 -1507.1  
 327 9.5 14412.8 -1535.9  
 328 8.5 14436.9 -1552.4  
 329 9.4 14457.5 -1537.9  
 330 9.4 14459.9 -1527.5  
 331 8.6 14513.9 -1540.5  
 332 8.9 14519.5 -1507.5  
 333 9.3 14519.7 -1548.8  
 334 9.0 14529.8 -1515.5  
 335 9.5 14600.1 -1530.3

336 8.5 14602.6 -1510.4  
 337 9.0 14613.6 -1554.0  
 338 9.8 14622.3 -1550.5  
 339 8.4 14644.2 -1541.8  
 340 10. 14705.0 -1528.8  
 341 9.2 14712.1 -1545.2  
 342 9.0 14715.5 -1531.2  
 343 9.8 14729.7 -1511.9  
 344 9.5 14749.2 -1554.1  
 345 9.8 14835.5 -1556.9

346 9.6 14912.6 -1528.2  
 347 9.7 14917.9 -1529.7  
 348 9.8 14922.2 -1543.4  
 349 9.5 14924.3 -1514.6  
 350 9.6 15028.8 -1539.1  
 351 9.1 15033.4 -1544.3  
 352 8.0 15104.0 -1528.8  
 353 9.5 15110.3 -1542.3  
 354 7.0 15212.7 -1549.6  
 355 9.5 15229.1 -1545.1

356 10. 15317.9 -1501.5  
 357 9.1 15550.1 -1514.5  
 358 9.0 15554.4 -1509.1  
 359 9.2 15610.7 -1551.7  
 360 9.0 15617.8 -1557.2  
 361 9.5 15630.2 -1500.4  
 362 9.4 15649.0 -1536.2  
 363 8.9 15651.5 -1509.5  
 364 9.6 15722.6 -1516.9  
 365 9.5 15726.9 -1544.2

366 9.8 15907.5 -1509.0  
 367 8.0 15935.1 -1508.8  
 368 9.0 20807.6 -1505.5  
 369 9.8 20820.8 -1525.5  
 370 5.8 20841.3 -1555.0  
 371 5.4 20853.1 -1519.4  
 372 9.8 20824.2 -1526.0  
 373 9.3 20842.6 -1539.9  
 374 9.8 20843.8 -1527.7  
 375 9.7 20844.9 -1518.1

376 9.8 20735.1 -1503.9  
 377 7.3 20248.3 -1534.3  
 378 10. 20322.8 -1529.8  
 379 9.2 20358.0 -1558.5  
 380 6.8 20406.7 -1545.1  
 381 7.2 20412.0 -1522.4  
 382 8.5 20430.2 -1505.9  
 383 8.0 20442.7 -1507.8  
 384 9.0 20457.3 -1532.4  
 385 9.1 20505.6 -1546.9

386 9.6 20508.8 -1533.6  
 387 7.7 20621.1 -1535.5  
 388 9.2 20719.7 -1528.1  
 389 9.3 20725.6 -1541.4  
 390 9.4 20810.4 -1512.8  
 391 9.4 20814.2 -1515.3  
 392 9.6 20824.1 -1507.9  
 393 8.8 20826.9 -1559.5  
 394 9.2 20864.1 -1500.7  
 395 10. 20852.8 -1511.7

396 8.4 20907.4 -1523.4  
 397 9.4 21011.5 -1501.8  
 398 9.8 21151.1 -1532.5  
 399 9.5 21212.2 -1521.7  
 400 9.0 21249.8 -1500.2  
 401 7.3 21311.9 -1504.5  
 402 8.0 21321.4 -1517.5  
 403 9.4 21335.6 -1516.3  
 404 9.6 21340.6 -1517.4  
 405 9.1 21346.0 -1554.9

406 8.6 21352.6 -1555.8  
 407 9.0 21437.1 -1514.1  
 408 9.0 21442.2 -1517.9  
 409 9.5 21444.4 -1527.0  
 410 8.7 21447.0 -1507.6  
 411 9.4 21503.2 -1509.4  
 412 8.5 21505.0 -1535.5  
 413 9.5 21509.1 -1554.9  
 414 8.0 21532.6 -1554.0  
 415 10. 21538.7 -1534.4

416 7.7 21550.1 -1533.9  
 417 9.8 21633.0 -1549.5  
 418 9.1 21652.1 -1508.6  
 419 9.9 21704.3 -1503.4  
 420 9.5 21719.2 -1516.0  
 421 10. 21728.9 -1521.0  
 422 9.8 21730.5 -1549.1  
 423 9.1 21752.1 -1504.4  
 424 9.5 21815.6 -1551.2  
 425 9.8 21830.5 -1530.4

426 6.0 21906.7 -1559.3  
 427 9.5 21911.2 -1557.5  
 428 9.8 21911.4 -1519.3  
 429 9.2 21949.4 -1537.5  
 430 8.3 22003.1 -1508.0  
 431 9.0 22011.3 -1513.5  
 432 9.1 22019.4 -1541.1  
 433 8.9 22058.8 -1553.5  
 434 9.4 22138.5 -1524.7  
 435 9.4 22141.4 -1512.5

436 9.8 22150.8 -1523.9  
 437 8.3 22154.3 -1556.9  
 438 9.8 22156.0 -1525.5  
 439 9.0 22310.5 -1516.4  
 440 9.1 22347.6 -1536.0  
 441 9.3 22401.5 -1521.5  
 442 7.5 22410.7 -1546.6  
 443 9.0 22415.9 -1547.9  
 444 9.5 22425.6 -1507.4  
 445 8.5 22439.9 -1557.6

446 10. 22447.3 -1508.7  
 447 8.9 22449.9 -1554.8  
 448 9.0 22502.2 -1545.4  
 449 4.5 22513.1 -1552.5  
 450 9.7 22539.0 -1514.1  
 451 8.5 22610.6 -1521.6  
 452 9.9 22612.3 -1505.7  
 453 7.7 22621.2 -1500.1  
 454 9.1 22634.0 -1558.4  
 455 8.6 22714.5 -1515.7



456 8.6 22815.8 -1549.5  
 457 9.3 22816.8 -1532.6  
 458 7.0 22845.6 -1534.5  
 459 9.0 22901.7 -1552.4  
 460 9.5 22909.4 -1505.0  
 461 7.0 22941.1 -1517.4  
 462 8.5 22951.4 -1550.0  
 463 9.1 23033.3 -1540.3  
 464 9.0 23053.2 -1514.3  
 465 9.5 23135.4 -1541.5  
 466 9.0 23218.5 -1537.2  
 467 10. 23232.8 -1529.2  
 468 9.2 23247.9 -1540.0  
 469 9.8 23309.6 -1552.2  
 470 9.1 23324.0 -1501.7  
 471 9.5 23329.3 -1501.9  
 472 8.9 23329.5 -1503.0  
 473 6.8 23332.4 -1504.3  
 474 9.8 23368.2 -1515.7  
 475 8.9 23402.0 -1502.3  
 476 9.4 23424.8 -1535.0  
 477 7.5 23437.9 -1543.4  
 478 6.3 23441.5 -1510.2  
 479 9.6 23453.8 -1535.6  
 480 9.9 23520.0 -1545.6  
 481 9.5 23535.4 -1540.2  
 482 9.8 23612.5 -1543.9  
 483 9.8 23620.9 -1558.0  
 484 9.3 23626.4 -1544.3  
 485 9.5 23654.2 -1513.0  
 486 9.1 23700.1 -1523.4  
 487 9.6 23826.5 -1528.7  
 488 9.3 23848.6 -1544.6  
 489 9.0 23910.4 -1548.6  
 490 10. 23921.5 -1516.9  
 491 7.5 24001.7 -1553.5  
 492 9.1 24007.0 -1534.5  
 493 8.0 24018.7 -1559.0  
 494 9.5 24128.9 -1550.3  
 495 9.5 24157.6 -1537.3  
 496 9.5 24216.2 -1543.5  
 497 8.6 24218.1 -1524.5  
 498 8.4 24226.3 -1518.0  
 499 9.5 24307.6 -1534.7  
 500 9.8 24314.5 -1516.0  
 501 9.5 24336.7 -1549.0  
 502 9.0 24338.4 -1506.1  
 503 10. 24359.6 -1523.3  
 504 9.5 24401.3 -1519.0  
 505 8.5 24405.4 -1558.3  
 506 9.9 24426.5 -1516.0  
 507 9.4 24429.4 -1531.8  
 508 9.2 24456.3 -1514.2  
 509 9.8 24526.8 -1522.5  
 510 9.5 24530.7 -1548.8  
 511 9.5 24711.3 -1528.8  
 512 9.9 24713.5 -1531.9  
 513 9.5 24748.1 -1520.6  
 514 10. 24752.3 -1543.2  
 515 9.9 24759.1 -1527.9  
 516 10. 24816.5 -1524.3  
 517 9.5 24824.0 -1509.3  
 518 9.7 24916.9 -1524.3  
 519 7.2 24939.1 -1536.1  
 520 9.5 24946.1 -1514.5  
 521 9.2 25001.6 -1516.7  
 522 9.0 25024.0 -1553.3  
 523 9.4 25123.8 -1508.4  
 524 9.5 25201.8 -1517.2  
 525 8.7 25217.3 -1537.3  
 526 8.9 25248.4 -1524.8  
 527 9.8 25323.1 -1520.3  
 528 9.5 25408.6 -1556.9  
 529 10. 25409.2 -1508.7  
 530 9.5 25431.5 -1553.1  
 531 9.1 25454.0 -1524.2  
 532 8.0 25544.5 -1550.7  
 533 9.2 25552.7 -1512.5  
 534 9.8 25655.7 -1536.1  
 535 9.0 25658.6 -1508.0  
 536 9.5 25727.1 -1502.9  
 537 8.8 25729.0 -1538.6  
 538 9.3 25753.5 -1530.4  
 539 9.2 25909.7 -1512.4  
 540 9.3 25910.4 -1530.7  
 541 9.1 25937.2 -1534.0  
 542 9.7 25953.8 -1526.5  
 543 9.4 30004.0 -1520.5  
 544 9.4 30017.2 -1551.7  
 545 9.8 30043.5 -1536.7

546 9.4 30051.6 -1541.6  
 547 9.3 30102.2 -1531.5  
 548 9.1 30152.2 -1527.0  
 549 9.6 30202.7 -1536.0  
 550 9.8 30224.3 -1510.6  
 551 8.3 30355.4 -1559.3  
 552 9.1 30400.7 -1545.4  
 553 9.1 30435.8 -1549.3  
 554 7.7 30458.3 -1528.7  
 555 9.5 30511.3 -1555.6  
 556 9.8 30534.9 -1516.2  
 557 9.8 30612.3 -1500.9  
 558 9.6 30646.1 -1536.7  
 559 9.5 30651.0 -1518.5  
 560 9.4 30729.7 -1523.1  
 561 9.4 30745.2 -1536.2  
 562 8.8 30746.1 -1522.7  
 563 8.8 30801.8 -1548.6  
 564 9.5 30823.4 -1500.7  
 565 9.6 30839.4 -1520.5  
 566 9.5 30854.1 -1533.4  
 567 9.8 30856.0 -1544.0  
 568 8.0 30905.7 -1520.3  
 569 9.3 30908.7 -1515.5  
 570 9.7 30952.3 -1512.3  
 571 9.2 31005.4 -1543.2  
 572 9.6 31043.1 -1512.8  
 573 9.5 31045.8 -1537.4  
 574 9.8 31136.6 -1517.0  
 575 9.8 31153.2 -1552.2  
 576 9.8 31202.1 -1526.5  
 577 9.8 31202.3 -1552.0  
 578 8.3 31207.1 -1524.8  
 579 10. 31207.6 -1535.7  
 580 9.8 31244.5 -1505.1  
 581 9.5 31405.0 -1549.5  
 582 9.8 31411.2 -1512.5  
 583 9.0 31436.5 -1551.4  
 584 7.1 31514.3 -1558.6  
 585 9.8 31539.6 -1511.3  
 586 9.8 31543.4 -1511.1  
 587 9.3 31621.5 -1556.6  
 588 9.5 31633.7 -1547.3  
 589 7.1 31639.2 -1524.1  
 590 9.1 31644.8 -1548.8  
 591 9.7 31710.9 -1536.5  
 592 8.7 31725.0 -1541.1  
 593 9.1 31742.4 -1501.1  
 594 8.7 31753.2 -1510.0  
 595 7.8 31831.3 -1532.7  
 596 9.5 31842.0 -1538.4  
 597 9.3 31931.6 -1524.6  
 598 7.2 31940.1 -1552.1  
 599 9.8 32014.3 -1543.9  
 600 9.4 32025.5 -1519.0  
 601 8.5 32048.6 -1543.1  
 602 9.5 32110.0 -1531.0  
 603 9.5 32113.0 -1540.0  
 604 9.6 32122.8 -1535.0  
 605 9.5 32247.6 -1520.4  
 606 9.8 32253.1 -1529.1  
 607 9.4 32325.6 -1545.8  
 608 9.3 32339.0 -1537.6  
 609 9.0 32355.1 -1521.1  
 610 9.8 32359.3 -1557.5  
 611 9.5 32417.2 -1501.0  
 612 9.4 32430.0 -1500.3  
 613 9.4 32538.4 -1504.5  
 614 9.0 32604.3 -1500.9  
 615 10. 32614.7 -1536.9  
 616 9.5 32625.8 -1530.4  
 617 6.3 32701.6 -1536.8  
 618 10. 32702.1 -1547.3  
 619 9.7 32720.2 -1519.4  
 620 8.0 32735.6 -1512.0  
 621 9.1 32838.1 -1518.0  
 622 8.9 32911.5 -1515.6  
 623 9.5 32959.4 -1500.7  
 624 9.4 33015.7 -1532.8  
 625 9.3 33026.7 -1536.4  
 626 9.5 33034.9 -1550.1  
 627 7.0 33103.0 -1557.6  
 628 9.7 33117.8 -1519.7  
 629 9.3 33129.5 -1500.7  
 630 9.4 33217.3 -1527.0  
 631 10. 33255.7 -1538.3  
 632 10. 33303.9 -1536.3  
 633 8.8 33309.5 -1554.4  
 634 6.0 33329.1 -1541.8  
 635 9.8 33335.0 -1531.9

636 8.3 33403.3 -1512.0  
 637 9.8 33441.3 -1512.5  
 638 9.5 33444.4 -1539.5  
 639 9.5 33459.4 -1530.0  
 640 9.8 33515.4 -1536.4  
 641 9.4 33536.2 -1556.9  
 642 9.1 33550.4 -1519.2  
 643 9.5 33605.0 -1537.5  
 644 9.8 33612.9 -1539.1  
 645 9.8 33639.5 -1527.4  
 646 9.4 33731.5 -1527.2  
 647 9.7 33815.3 -1536.1  
 648 9.2 33834.8 -1506.4  
 649 7.0 33849.7 -1549.6  
 650 9.5 33904.0 -1525.4  
 651 9.2 33924.5 -1536.3  
 652 9.0 33928.6 -1537.6  
 653 9.8 33939.9 -1515.8  
 654 8.0 33950.8 -1541.9  
 655 9.5 34010.3 -1546.5  
 656 9.5 34022.1 -1543.4  
 657 8.6 34034.2 -1547.2  
 658 9.3 34036.9 -1533.6  
 659 8.5 34038.9 -1513.2  
 660 8.3 34045.5 -1529.4  
 661 9.8 34103.1 -1542.0  
 662 10. 34107.8 -1559.3  
 663 9.1 34109.4 -1508.9  
 664 8.0 34114.3 -1533.4  
 665 9.1 34134.8 -1502.5  
 666 9.8 34138.0 -1522.5  
 667 9.6 34212.0 -1533.1  
 668 9.5 34222.9 -1509.8  
 669 9.8 34229.6 -1527.5  
 670 9.3 34232.6 -1543.5  
 671 9.3 34238.2 -1527.7  
 672 9.4 34245.1 -1542.5  
 673 9.8 34301.6 -1546.3  
 674 9.8 34343.0 -1511.0  
 675 9.4 34343.5 -1533.7  
 676 9.0 34355.2 -1522.5  
 677 8.0 34420.4 -1508.8  
 678 8.5 34425.4 -1540.4  
 679 9.8 34433.2 -1540.6  
 680 9.6 34613.5 -1504.1  
 681 9.7 34613.6 -1559.4  
 682 9.5 34636.5 -1550.4  
 683 6.8 34649.1 -1524.3  
 684 10. 34734.9 -1537.5  
 685 9.9 34745.1 -1529.3  
 686 8.9 34802.2 -1522.1  
 687 7.0 34817.3 -1520.2  
 688 9.5 34825.0 -1526.5  
 689 9.5 34859.2 -1513.7  
 690 9.3 34933.0 -1554.5  
 691 9.5 35005.5 -1549.7  
 692 9.2 35029.4 -1528.9  
 693 8.3 35150.8 -1531.0  
 694 10. 35207.9 -1543.3  
 695 9.6 35228.8 -1522.3  
 696 8.0 35412.2 -1532.9  
 697 9.1 35334.0 -1551.3  
 698 9.2 35343.1 -1554.5  
 699 9.7 35405.9 -1534.4  
 700 9.8 35427.3 -1513.0  
 701 9.2 35500.2 -1518.6  
 702 9.1 35510.3 -1536.5  
 703 9.7 35531.3 -1530.7  
 704 9.3 35535.9 -1518.6  
 705 9.3 35536.7 -1545.8  
 706 10. 35542.8 -1532.4  
 707 9.5 35620.4 -1520.5  
 708 8.6 35624.6 -1532.7  
 709 9.5 35627.0 -1535.4  
 710 9.7 35647.3 -1513.3  
 711 9.9 35658.2 -1503.8  
 712 8.8 35800.4 -1525.9  
 713 9.8 35801.2 -1516.7  
 714 9.7 35818.2 -1550.4  
 715 9.5 35903.9 -1521.7  
 716 9.2 35910.3 -1515.1  
 717 8.0 35919.3 -1507.6  
 718 10. 40016.5 -1537.9  
 719 10. 40048.0 -1520.5  
 720 8.5 40051.4 -1549.7  
 721 9.5 40052.5 -1537.5  
 722 9.2 40114.4 -1516.6  
 723 9.5 40116.3 -1506.8  
 724 9.8 40129.1 -1519.5  
 725 9.8 40134.6 -1520.7

726 9.4 40146.8 -1535.3  
 727 10. 40203.9 -1509.6  
 728 9.7 40247.4 -1505.4  
 729 9.4 40255.4 -1531.1  
 730 8.3 40256.4 -1510.8  
 731 9.0 40333.7 -1550.1  
 732 9.0 40334.2 -1516.8  
 733 7.5 40349.3 -1525.0  
 734 9.5 40356.0 -1513.2  
 735 9.3 40403.6 -1538.2  
 736 9.1 40424.8 -1510.6  
 737 10. 40425.3 -1547.4  
 738 9.2 40425.7 -1508.7  
 739 9.8 40450.9 -1547.8  
 740 10. 40519.0 -1537.5  
 741 9.3 40629.4 -1501.5  
 742 10. 40642.5 -1530.6  
 743 10. 40644.2 -1544.9  
 744 9.4 40702.0 -1518.7  
 745 8.4 40724.6 -1524.0  
 746 8.9 40740.8 -1501.0  
 747 10. 40740.9 -1516.6  
 748 9.3 40754.9 -1508.5  
 749 9.2 40759.3 -1513.3  
 750 9.5 40813.6 -1513.5  
 751 9.1 40814.7 -1532.0  
 752 9.5 40852.4 -1555.7  
 753 9.5 40853.5 -1509.7  
 754 8.0 40925.2 -1517.5  
 755 8.8 40927.3 -1527.5  
 756 9.4 41005.0 -1546.1  
 757 8.7 41005.6 -1513.2  
 758 10. 41007.5 -1525.5  
 759 9.1 41019.3 -1546.4  
 760 9.8 41101.7 -1546.0  
 761 9.0 41149.6 -1553.4  
 762 10. 41154.2 -1509.3  
 763 9.5 41208.9 -1528.8  
 764 9.4 41245.0 -1558.7  
 765 8.7 41255.9 -1531.2  
 766 10. 41321.9 -1507.5  
 767 9.2 41330.4 -1507.2  
 768 9.4 41450.5 -1549.3  
 769 8.8 41450.7 -1527.2  
 770 9.3 41452.7 -1525.2  
 771 8.2 41523.5 -1554.0  
 772 9.5 41625.2 -1508.3  
 773 9.4 41628.6 -1505.2  
 774 9.4 41632.0 -1548.4  
 775 10. 41718.7 -1526.4  
 776 9.5 41726.7 -1514.2  
 777 10. 41739.6 -1521.6  
 778 9.5 41801.1 -1555.7  
 779 9.3 41807.1 -1522.0  
 780 8.5 41817.8 -1501.3  
 781 9.3 41825.1 -1555.8  
 782 10. 41832.4 -1535.1  
 783 9.6 41839.1 -1507.0  
 784 9.5 41839.2 -1511.7  
 785 9.7 41911.5 -1515.9  
 786 7.8 41914.1 -1559.1  
 787 9.1 42004.0 -1552.0  
 788 9.2 42019.5 -1548.0  
 789 9.6 42026.3 -1503.7  
 790 9.7 42059.8 -1526.3  
 791 9.2 42109.6 -1520.9  
 792 9.8 42113.1 -1518.0  
 793 9.2 42127.4 -1540.1  
 794 7.0 42129.8 -1530.2  
 795 9.5 42209.2 -1554.3  
 796 8.6 42212.1 -1517.9  
 797 9.2 42225.2 -1533.3  
 798 8.9 42249.6 -1521.3  
 799 9.9 42332.2 -1524.3  
 800 9.2 42355.5 -1524.6  
 801 10. 42422.1 -1548.1  
 802 9.9 42433.4 -1532.9  
 803 10. 42446.2 -1556.8  
 804 9.1 42504.7 -1557.3  
 805 10. 42553.6 -1546.2  
 806 9.8 42555.6 -1501.6  
 807 9.1 42557.3 -1529.1  
 808 9.4 42607.5 -1538.8  
 809 9.4 42616.4 -1539.6  
 810 9.5 42627.0 -1511.1  
 811 9.4 42652.1 -1536.0  
 812 9.5 42716.5 -1500.6  
 813 9.8 42810.2 -1511.5  
 814 9.4 42811.1 -1541.2  
 815 9.8 42902.5 -1517.0



816 9.8 42902.6 -1534.2  
817 9.4 42919.2 -1553.3  
818 9.5 42931.3 -1553.1  
819 8.3 43016.1 -1513.4  
820 9.2 43017.7 -1511.0  
821 9.3 43021.6 -1538.6  
822 9.5 43025.2 -1518.7  
823 9.5 43039.2 -1547.3  
824 8.5 43041.9 -1559.7  
825 9.5 43136.6 -1527.5

826 10. 43216.3 -1519.7  
827 9.8 43216.5 -1558.9  
828 8.8 43225.2 -1514.4  
829 9.2 43225.8 -1501.6  
830 9.2 43228.9 -1530.3  
831 9.8 43257.9 -1556.7  
832 9.1 43258.8 -1548.1  
833 9.2 43300.7 -1559.6  
834 9.9 43327.6 -1527.7  
835 9.7 43357.8 -1546.9

836 9.4 43402.4 -1504.4  
837 9.5 43407.9 -1554.3  
838 9.1 43435.8 -1507.1  
839 9.5 43439.5 -1557.4  
840 9.4 43457.3 -1509.8  
841 10. 43525.7 -1548.5  
842 9.4 43542.6 -1504.2  
843 8.7 43548.6 -1546.6  
844 9.3 43556.1 -1530.8  
845 8.8 43620.4 -1536.5

846 9.8 43322.6 -1551.0  
847 9.1 43133.4 -1501.1  
848 7.9 43135.3 -1553.5  
849 9.5 43352.9 -1555.1  
850 10. 43656.4 -1537.8  
851 9.8 43712.7 -1557.6  
852 9.6 43735.2 -1527.5  
853 9.3 43749.5 -1543.0  
854 9.7 43803.5 -1531.0  
855 9.5 43810.9 -1537.6

856 9.4 43839.4 -1538.8  
857 9.5 43903.8 -1535.4  
858 8.5 43910.3 -1511.8  
859 9.4 43921.1 -1548.5  
860 9.8 43930.8 -1536.6  
861 9.0 44000.7 -1500.7  
862 9.5 44026.5 -1545.0  
863 9.8 44045.7 -1519.1  
864 10. 44052.5 -1523.3  
865 8.2 44114.8 -1525.7

866 9.1 44127.3 -1508.8  
867 8.1 44205.1 -1529.2  
868 8.2 44240.9 -1558.3  
869 10. 44256.8 -1502.3  
870 9.7 44257.5 -1507.2  
871 8.5 44259.7 -1552.0  
872 9.0 44311.4 -1559.3  
873 9.5 44320.3 -1558.0  
874 8.5 44409.0 -1548.8  
875 9.0 44414.1 -1522.5

876 9.4 44439.3 -1555.7  
877 9.5 44446.0 -1538.3  
878 9.4 44502.0 -1532.2  
879 9.4 44517.2 -1543.0  
880 8.0 44529.0 -1517.7  
881 10. 44531.3 -1528.8  
882 10. 44544.3 -1531.0  
883 8.0 44548.9 -1508.2  
884 9.5 44555.1 -1541.6  
885 10. 44614.9 -1555.0

886 9.5 44627.5 -1548.4  
887 9.1 44627.8 -1554.7  
888 10. 44639.3 -1504.1  
889 9.8 44642.5 -1517.8  
890 9.6 44650.7 -1501.6  
891 9.8 44656.9 -1559.4  
892 10. 44733.1 -1552.5  
893 8.3 44735.8 -1511.0  
894 10. 44749.1 -1542.7  
895 9.2 44751.1 -1555.0

896 10. 44823.8 -1528.1  
897 8.9 44845.5 -1535.8  
898 9.4 44846.6 -1539.6  
899 9.4 44908.9 -1539.0  
900 10. 44908.9 -1510.3  
901 9.5 44910.1 -1522.5  
902 9.8 44917.3 -1525.7  
903 7.7 44922.0 -1506.7  
904 7.7 44951.5 -1536.8  
905 10. 45005.3 -1551.8

906 9.5 45032.4 -1501.8  
907 9.6 45046.1 -1532.1  
908 9.8 45052.7 -1545.0  
909 9.1 45151.4 -1543.8  
910 7.7 45200.3 -1500.4  
911 9.6 45205.6 -1524.7  
912 9.0 45221.9 -1500.4  
913 10. 45230.6 -1539.1  
914 8.4 45245.5 -1558.1  
915 30.0 45259.1 -1501.8

916 9.0 45311.6 -1520.0  
917 9.0 45315.0 -1535.8  
918 9.7 45326.6 -1519.8  
919 9.4 45331.8 -1545.6  
920 9.8 45339.0 -1510.5  
921 9.0 45400.0 -1558.0  
922 9.3 45406.4 -1503.1  
923 9.4 45429.4 -1505.0  
924 9.8 45435.2 -1541.4  
925 9.2 45524.0 -1527.1

926 9.3 45531.7 -1555.3  
927 8.5 45558.0 -1554.8  
928 9.1 45607.7 -1542.3  
929 10. 45613.2 -1542.3  
930 9.8 45632.4 -1503.1  
931 8.0 45710.5 -1554.7  
932 9.4 45715.2 -1541.0  
933 9.1 45717.9 -1553.9  
934 9.1 45718.6 -1510.4  
935 9.4 45728.2 -1520.7

936 9.4 45739.3 -1542.2  
937 9.5 45744.0 -1506.1  
938 7.5 45801.5 -1509.1  
939 9.4 45802.4 -1551.0  
940 9.2 45835.5 -1523.7  
941 9.8 45839.5 -1531.2  
942 9.9 45855.5 -1505.8  
943 9.5 45930.5 -1504.0  
944 8.8 45937.7 -1538.6  
945 9.5 45944.4 -1546.9

946 9.5 45949.7 -1537.0  
947 9.0 50004.1 -1558.8  
948 9.9 50024.0 -1533.7  
949 9.6 50057.0 -1505.3  
950 6.5 50058.9 -1517.5  
951 10. 50102.4 -1517.4  
952 8.5 50204.7 -1540.8  
953 8.3 50252.7 -1551.0  
954 9.6 50252.7 -1519.2  
955 9.4 50255.5 -1551.2

956 9.5 50319.4 -1500.4  
957 9.5 50325.2 -1559.0  
958 9.8 50344.1 -1510.9  
959 9.1 50344.6 -1536.2  
960 9.7 50345.2 -1549.4  
961 10. 50355.3 -1519.1  
962 8.6 50400.8 -1553.7  
963 9.0 50445.6 -1554.5  
964 9.4 50446.0 -1531.1  
965 8.5 50451.7 -1514.2

966 9.6 50501.6 -1506.0  
967 9.6 50504.8 -1520.6  
968 9.1 50541.8 -1514.8  
969 9.0 50545.4 -1548.3  
970 9.7 50557.0 -1546.7  
971 7.3 50601.1 -1507.7  
972 9.0 50613.0 -1516.5  
973 9.1 50638.5 -1504.3  
974 9.0 50644.1 -1553.5  
975 9.8 50713.6 -1550.3

976 9.2 50729.1 -1513.3  
977 8.5 50738.5 -1548.9  
978 8.0 50745.7 -1559.6  
979 9.3 50750.6 -1511.2  
980 9.7 50804.9 -1528.9  
981 9.0 50821.2 -1558.5  
982 9.6 50821.8 -1518.1  
983 9.9 50838.9 -1507.0  
984 9.0 50832.7 -1515.8  
985 9.5 50837.4 -1545.5

986 8.5 50838.0 -1573.4  
987 9.5 50857.3 -1524.0  
988 9.3 50906.9 -1532.4  
989 9.1 50940.2 -1530.4  
990 9.5 50941.2 -1515.4  
991 9.3 50952.4 -1540.0  
992 10. 50953.1 -1505.5  
993 9.0 51011.2 -1514.9  
994 9.5 51016.3 -1521.1  
995 9.0 51021.1 -1505.7

996 9.1 51027.1 -1506.9  
997 9.6 51038.0 -1551.2  
998 9.5 51050.8 -1538.7  
999 8.5 51100.0 -1547.0  
1000 8.6 51100.4 -1522.6  
1001 7.2 51101.3 -1522.9  
1002 9.5 51112.4 -1536.2  
1003 9.5 51128.1 -1530.4  
1004 10. 51128.7 -1537.1  
1005 9.4 51132.6 -1506.6

1006 9.6 51138.5 -1559.8  
1007 9.7 51204.0 -1513.1  
1008 9.8 51224.8 -1519.3  
1009 9.1 51233.5 -1534.1  
1010 9.5 51236.9 -1528.9  
1011 9.5 51243.6 -1549.8  
1012 9.4 51258.0 -1502.3  
1013 9.3 51258.2 -1526.1  
1014 8.0 51321.7 -1546.0  
1015 9.9 51323.6 -1507.0

1016 8.5 51326.7 -1559.8  
1017 9.1 51416.1 -1502.3  
1018 7.5 51444.2 -1517.6  
1019 10. 51502.1 -1556.7  
1020 9.0 51523.9 -1536.8  
1021 9.5 51609.8 -1528.3  
1022 9.0 51619.3 -1509.8  
1023 9.3 51628.3 -1535.0  
1024 9.3 51634.9 -1524.1  
1025 9.4 51646.1 -1500.9

1026 8.9 51716.4 -1514.5  
1027 9.0 51716.6 -1536.5  
1028 9.7 51722.6 -1525.2  
1029 10. 51812.1 -1551.8  
1030 9.4 51815.9 -1538.5  
1031 10. 51825.1 -1550.0  
1032 9.7 51829.7 -1502.2  
1033 9.7 51835.3 -1559.0  
1034 9.2 51838.9 -1524.5  
1035 8.2 51837.2 -1536.0

1036 9.1 51947.3 -1535.5  
1037 8.3 52007.1 -1516.1  
1038 9.2 52007.3 -1536.0  
1039 9.0 52010.3 -1539.1  
1040 8.5 52011.9 -1553.3  
1041 9.7 52018.4 -1532.4  
1042 9.6 52021.0 -1546.0  
1043 9.7 52022.1 -1522.4  
1044 9.6 52027.0 -1521.1  
1045 10. 52038.4 -1541.7

1046 9.6 52042.3 -1520.9  
1047 8.7 52058.4 -1522.6  
1048 9.0 52104.7 -1553.5  
1049 10. 52110.3 -1509.2  
1050 9.3 52137.3 -1558.1  
1051 10. 52204.2 -1508.3  
1052 9.5 52214.5 -1521.2  
1053 9.2 52250.5 -1521.1  
1054 9.5 52302.4 -1523.4  
1055 9.8 52313.1 -1544.4

1056 10. 52335.2 -1541.8  
1057 9.4 52335.4 -1539.8  
1058 9.4 52339.4 -1529.4  
1059 9.5 52352.2 -1503.9  
1060 9.3 52401.1 -1526.1  
1061 9.8 52405.8 -1509.7  
1062 10. 52414.9 -1559.2  
1063 8.5 52420.7 -1555.2  
1064 9.4 52435.6 -1526.8  
1065 9.4 52435.6 -1524.0

1066 9.4 52438.5 -1521.8  
1067 9.1 52444.8 -1508.0  
1068 8.3 52506.9 -1518.9  
1069 10. 52509.2 -1504.6  
1070 9.8 52525.1 -1541.5  
1071 10. 52527.4 -1537.9  
1072 8.2 52535.9 -1540.5  
1073 9.3 52544.5 -1522.2  
1074 9.6 52547.7 -1553.4  
1075 9.0 52550.8 -1505.1

1076 8.8 52555.9 -1536.0  
1077 9.5 52607.0 -1526.3  
1078 9.5 52610.3 -1555.8  
1079 9.7 52611.0 -1520.0  
1080 9.0 52654.8 -1557.9  
1081 9.5 52715.7 -1551.1  
1082 8.0 52735.5 -1523.3  
1083 9.4 52750.9 -1536.1  
1084 9.4 52813.1 -1542.8  
1085 9.2 52832.6 -1514.5

1086 9.8 52832.9 -1556.9  
1087 9.5 52836.4 -1519.9  
1088 9.4 52847.6 -1545.5  
1089 7.2 52854.9 -1549.9  
1090 9.2 52920.9 -1527.4  
1091 9.8 52928.0 -1511.4  
1092 8.7 52929.9 -1528.8  
1093 8.9 52939.8 -1544.9  
1094 7.9 52941.1 -1554.6  
1095 9.8 52941.8 -1542.8

1096 9.4 53003.2 -1536.6  
1097 9.4 53014.9 -1533.8  
1098 9.2 53017.5 -1507.8  
1099 9.1 53021.8 -1542.8  
1100 10. 53027.0 -1513.7  
1101 8.3 53112.4 -1511.5  
1102 9.7 53114.5 -1520.3  
1103 9.5 53127.9 -1507.6  
1104 9.3 53128.9 -1502.1  
1105 9.7 53146.7 -1504.3

1106 9.8 53210.3 -1526.7  
1107 9.5 53221.4 -1503.1  
1108 9.2 53222.0 -1534.2  
1109 9.5 53251.2 -1536.2  
1110 7.5 53304.1 -1557.2  
1111 9.0 53309.6 -1515.2  
1112 9.8 53318.2 -1531.4  
1113 9.5 53322.3 -1532.9  
1114 9.5 53324.4 -1547.4  
1115 9.4 53336.5 -1507.0

1116 8.7 53340.0 -1508.1  
1117 9.5 53342.0 -1552.5  
1118 9.2 53346.2 -1528.7  
1119 8.4 53419.5 -1507.9  
1120 10. 53423.0 -1533.5  
1121 8.8 53427.8 -1527.4  
1122 9.5 53433.1 -1512.5  
1123 9.5 53440.0 -1553.1  
1124 9.5 53441.4 -1528.6  
1125 7.1 53502.8 -1524.8

1126 8.0 53520.3 -1541.6  
1127 9.4 53526.6 -1537.4  
1128 8.8 53528.2 -1558.3  
1129 10. 53543.6 -1514.4  
1130 9.8 53550.7 -1532.7  
1131 9.5 53553.5 -1553.3  
1132 9.4 53557.5 -1500.4  
1133 9.1 53559.1 -1509.3  
1134 9.8 53652.1 -1513.3  
1135 9.5 53652.8 -1509.3

1136 9.5 53713.1 -1546.8  
1137 9.4 53713.6 -1511.7  
1138 8.8 53717.5 -1528.1  
1139 9.4 53722.0 -1552.7  
1140 9.1 53735.0 -1553.0  
1141 9.2 53741.0 -1532.1  
1142 9.0 53743.5 -1524.6  
1143 9.8 53749.2 -1551.2  
1144 9.5 53749.2 -1537.6  
1145 9.8 53815.7 -1538.6

1146 9.1 53826.2 -1535.9  
1147 10. 53827.5 -1506.7  
1148 8.5 53829.0 -1518.0  
1149 9.0 53826.7 -1513.6  
1150 9.7 53854.4 -1508.7  
1151 9.0 53857.2 -1518.1  
1152 8.7 53902.5 -1506.6  
1153 9.2 53906.7 -1508.6  
1154 8.5 53912.1 -1555.5  
1155 10. 53917.3 -1542.2

1156 9.2 53922.8 -1520.9  
1157 9.0 53925.2 -1551.5  
1158 8.5 53933.1 -1554.2  
1159 9.0 53935.7 -1517.7  
1160 9.1 53943.4 -1536.0  
1161 9.7 54004.2 -1515.0  
1162 9.1 54005.0 -1502.0  
1163 9.8 54019.3 -1538.5  
1164 10. 54021.6 -1511.8  
1165 9.2 54035.0 -1500.1

1166 9.2 54046.2 -1520.4  
1167 8.7 54050.6 -1530.3  
1168 7.8 54055.7 -1517.9  
1169 9.1 54102.6 -1552.7  
1170 9.5 54115.1 -1512.9  
1171 9.6 54128.1 -1554.2  
1172 10. 54140.4 -1543.5  
1173 10. 54218.4 -1522.6  
1174 9.4 54235.5 -1530.0  
1175 8.9 54236.9 -1500.4



-15 1176

5h42m

-15 1535

6h44m

1176 9.8 54251.4 -1557.9  
1177 9.1 54308.6 -1530.3  
1178 9.2 54313.5 -1524.9  
1179 9.5 54313.9 -1511.1  
1180 9.5 54318.4 -1544.7  
1181 9.8 54322.3 -1525.1  
1182 8.3 54328.1 -1529.5  
1183 10. 54328.2 -1522.1  
1184 9.5 54335.0 -1536.3  
1185 8.9 54354.7 -1532.9

1266 9.5 55914.0 -1548.9  
1267 9.8 55919.5 -1538.8  
1268 9.8 55921.6 -1534.5  
1269 8.9 60003.7 -1507.4  
1270 9.7 60018.2 -1557.1  
1271 9.1 60025.8 -1540.4  
1272 9.2 60056.3 -1514.8  
1273 9.8 60059.6 -1551.7  
1274 9.0 60117.2 -1511.1  
1275 7.8 60136.1 -1552.4

1356 9.0 61442.0 -1534.1  
1357 9.1 61450.3 -1511.6  
1358 8.7 61503.8 -1500.2  
1359 9.5 61504.7 -1531.5  
1360 9.3 61515.6 -1502.4  
1361 7.3 61535.4 -1535.8  
1362 9.7 61606.6 -1532.8  
1363 9.6 61608.9 -1514.4  
1364 9.1 61655.2 -1503.5  
1365 9.3 61656.5 -1548.5

1446 8.2 62903.0 -1553.8  
1447 9.4 62911.2 -1532.6  
1448 8.0 62919.9 -1559.3  
1449 9.8 62938.6 -1505.4  
1450 9.2 62941.8 -1553.5  
1451 10. 62942.6 -1507.5  
1452 10. 62952.5 -1505.9  
1453 9.5 62954.7 -1541.1  
1454 8.7 63038.4 -1522.8  
1455 9.2 63051.9 -1538.9

1186 9.5 54357.1 -1531.2  
1187 10. 54437.9 -1544.8  
1188 10. 54440.0 -1558.9  
1189 10. 54440.5 -1510.9  
1190 9.8 54457.1 -1552.5  
1191 9.4 54508.0 -1504.0  
1192 10. 54526.2 -1558.6  
1193 7.3 54529.9 -1532.6  
1194 9.5 54538.4 -1501.5  
1195 9.5 54538.4 -1516.4

1276 10. 60136.9 -1524.3  
1277 9.0 60142.9 -1524.7  
1278 9.8 60205.8 -1529.8  
1279 9.8 60207.7 -1528.7  
1280 8.0 60235.8 -1540.7  
1281 9.5 60238.3 -1541.1  
1282 9.8 60245.9 -1517.9  
1283 9.4 60253.0 -1500.0  
1284 9.5 60254.5 -1501.1  
1285 9.2 60255.1 -1505.3

1366 8.5 61648.6 -1550.0  
1367 9.8 61704.7 -1509.1  
1368 9.2 61711.8 -1537.3  
1369 9.8 61729.3 -1554.5  
1370 10. 61732.7 -1544.8  
1371 9.8 61739.0 -1558.0  
1372 9.4 61806.3 -1555.4  
1373 9.0 61808.8 -1534.1  
1374 9.9 61809.5 -1542.1  
1375 10. 61811.2 -1548.6

1456 9.1 63104.3 -1516.5  
1457 9.8 63106.8 -1554.3  
1458 9.1 63108.4 -1558.4  
1459 8.6 63116.2 -1549.1  
1460 10. 63128.1 -1534.6  
1461 9.1 63147.3 -1534.7  
1462 10. 63202.5 -1501.8  
1463 8.5 63223.7 -1550.5  
1464 8.7 63251.9 -1559.9  
1465 10. 63309.1 -1543.1

1196 9.1 54538.4 -1542.0  
1197 9.8 54548.5 -1551.2  
1198 9.0 54557.6 -1552.8  
1199 8.3 54558.5 -1535.1  
1200 8.6 54605.7 -1530.4  
1201 8.9 54606.4 -1511.4  
1202 9.4 54610.8 -1533.7  
1203 9.1 54622.1 -1506.5  
1204 9.3 54633.0 -1532.2  
1205 9.5 54639.5 -1502.9

1286 9.5 60313.7 -1537.6  
1287 9.8 60315.3 -1509.1  
1288 9.6 60317.1 -1504.9  
1289 10. 60324.7 -1529.9  
1290 9.5 60335.2 -1516.3  
1291 9.1 60342.6 -1552.4  
1292 7.3 60343.2 -1502.0  
1293 9.7 60356.5 -1508.4  
1294 9.5 60409.6 -1554.1  
1295 9.6 60417.5 -1534.5

1376 9.8 61831.1 -1502.2  
1377 8.6 61833.2 -1503.7  
1378 9.8 61839.9 -1529.3  
1379 9.6 61851.6 -1532.6  
1380 10. 61915.0 -1537.6  
1381 9.0 61936.1 -1502.3  
1382 8.7 61938.1 -1532.9  
1383 9.6 61940.2 -1527.4  
1384 9.5 61944.3 -1530.3  
1385 8.8 62004.8 -1526.1

1466 9.4 63342.5 -1544.0  
1467 8.5 63352.0 -1543.5  
1468 9.8 63356.7 -1549.7  
1469 8.5 63358.0 -1552.4  
1470 9.5 63410.5 -1541.3  
1471 10. 63413.6 -1528.7  
1472 10. 63414.2 -1522.3  
1473 9.1 63420.5 -1501.0  
1474 9.5 63422.4 -1537.2  
1475 3.6 63428.5 -1541.2

1206 10. 54647.2 -1509.2  
1207 9.2 54650.0 -1501.4  
1208 8.8 54704.6 -1530.0  
1209 9.8 54708.2 -1516.4  
1210 10. 54725.3 -1541.6  
1211 10. 54730.7 -1556.3  
1212 7.7 54752.4 -1545.3  
1213 9.8 54757.6 -1508.3  
1214 9.5 54808.7 -1547.5  
1215 9.5 54844.6 -1530.0

1296 9.8 60419.0 -1531.0  
1297 9.8 60435.9 -1517.7  
1298 9.2 60439.8 -1534.4  
1299 7.0 60450.9 -1545.5  
1300 10. 60500.8 -1513.0  
1301 9.2 60504.5 -1547.4  
1302 9.8 60506.1 -1503.4  
1303 9.5 60507.1 -1550.6  
1304 9.0 60513.8 -1531.4  
1305 9.5 60514.6 -1512.1

1386 9.1 62034.7 -1550.4  
1387 8.8 62038.3 -1502.6  
1388 8.1 62048.8 -1514.0  
1389 9.2 62055.6 -1540.3  
1390 7.7 62104.1 -1513.1  
1391 9.6 62104.7 -1506.4  
1392 9.0 62106.6 -1541.9  
1393 10. 62120.6 -1541.4  
1394 9.8 62129.7 -1547.0  
1395 9.8 62145.0 -1522.9

1476 9.6 63431.5 -1528.7  
1477 5.8 63443.8 -1513.3  
1478 7.5 63528.4 -1552.2  
1479 7.3 63532.6 -1504.5  
1480 9.8 63544.2 -1511.9  
1481 7.7 63623.9 -1535.9  
1482 9.1 63632.0 -1548.6  
1483 8.5 63636.6 -1522.1  
1484 8.0 63640.5 -1541.6  
1485 9.8 63645.0 -1550.7

1216 9.3 54904.7 -1531.1  
1217 8.8 54914.2 -1513.0  
1218 9.3 54917.6 -1554.0  
1219 8.5 54927.2 -1555.9  
1220 9.0 54932.5 -1526.8  
1221 8.3 54937.8 -1532.5  
1222 9.9 54939.6 -1500.9  
1223 9.9 55012.1 -1529.0  
1224 9.7 55026.8 -1534.6  
1225 9.3 55102.4 -1532.5

1306 9.8 60516.9 -1546.0  
1307 8.7 60519.6 -1536.7  
1308 9.0 60627.8 -1511.2  
1309 9.0 60631.2 -1555.1  
1310 9.8 60634.6 -1504.7  
1311 8.8 60635.4 -1527.4  
1312 9.1 60637.1 -1522.9  
1313 9.2 60650.9 -1506.5  
1314 7.5 60652.0 -1521.0  
1315 8.7 60707.6 -1524.9

1396 9.0 62151.9 -1516.9  
1397 9.5 62220.5 -1537.7  
1398 9.5 62223.8 -1526.4  
1399 9.0 62229.2 -1546.2  
1400 9.2 62256.7 -1508.3  
1401 9.6 62301.5 -1526.0  
1402 9.1 62302.1 -1501.0  
1403 9.1 62319.2 -1505.3  
1404 9.3 62321.2 -1559.8  
1405 9.4 62321.6 -1511.3

1486 9.3 63651.1 -1506.5  
1487 10. 63708.4 -1535.9  
1488 10. 63710.8 -1531.1  
1489 7.4 63710.8 -1554.1  
1490 9.8 63721.1 -1555.9  
1491 10. 63744.2 -1516.0  
1492 10. 63756.9 -1527.0  
1493 9.3 63807.0 -1506.9  
1494 9.6 63813.3 -1517.8  
1495 9.3 63821.7 -1508.0

1226 7.2 55107.3 -1525.7  
1227 9.0 55114.4 -1545.6  
1228 9.2 55120.5 -1534.6  
1229 9.0 55123.4 -1544.2  
1230 8.9 55142.4 -1526.9  
1231 8.9 55142.9 -1526.9  
1232 9.6 55216.2 -1509.7  
1233 10. 55227.2 -1534.8  
1234 9.9 55228.8 -1544.9  
1235 9.3 55250.5 -1546.8

1316 9.4 60718.2 -1551.1  
1317 9.5 60808.0 -1524.5  
1318 9.2 60828.9 -1545.2  
1319 10. 60831.3 -1550.5  
1320 8.8 60854.4 -1545.5  
1321 9.1 60902.5 -1533.3  
1322 9.1 60916.7 -1519.2  
1323 9.8 60917.6 -1531.0  
1324 9.3 60926.1 -1547.5  
1325 9.1 60928.9 -1520.9

1406 9.0 62327.0 -1557.8  
1407 8.2 62329.1 -1537.6  
1408 9.4 62347.2 -1540.4  
1409 9.7 62351.2 -1538.2  
1410 8.8 62352.6 -1500.3  
1411 9.4 62414.5 -1539.0  
1412 9.6 62422.5 -1508.6  
1413 9.8 62441.5 -1539.7  
1414 9.8 62504.5 -1531.4  
1415 9.2 62508.6 -1532.7

1496 9.8 63823.6 -1512.7  
1497 10. 63822.9 -1514.6  
1498 9.7 63834.7 -1501.0  
1499 9.8 63836.0 -1555.4  
1500 9.2 63905.8 -1535.7  
1501 9.2 63917.5 -1552.7  
1502 9.0 63924.1 -1547.6  
1503 9.8 63931.9 -1558.7  
1504 8.6 63934.0 -1526.5  
1505 9.5 63945.7 -1539.5

1236 9.0 55302.4 -1522.6  
1237 10. 55312.2 -1511.9  
1238 8.0 55315.5 -1548.7  
1239 8.8 55330.1 -1504.5  
1240 10. 55355.4 -1520.8  
1241 9.8 55356.4 -1530.2  
1242 8.5 55414.5 -1500.9  
1243 9.0 55423.6 -1543.5  
1244 9.2 55424.3 -1538.1  
1245 10. 55443.9 -1518.8

1326 9.5 60954.6 -1537.9  
1327 9.2 60956.5 -1514.4  
1328 8.5 61016.7 -1504.8  
1329 9.7 61018.6 -1524.8  
1330 9.8 61024.9 -1524.7  
1331 9.5 61032.0 -1550.0  
1332 9.8 61036.0 -1547.7  
1333 9.8 61057.3 -1536.0  
1334 9.6 61103.1 -1532.3  
1335 8.4 61104.6 -1524.3

1416 8.2 62526.4 -1522.8  
1417 9.4 62543.5 -1549.6  
1418 9.8 62553.1 -1516.5  
1419 10. 62554.4 -1500.8  
1420 9.8 62554.4 -1527.5  
1421 9.6 62559.8 -1532.1  
1422 9.4 62608.1 -1534.3  
1423 8.0 62609.6 -1543.7  
1424 10. 62626.7 -1544.5  
1425 9.8 62634.6 -1544.5

1506 9.6 63955.9 -1525.4  
1507 9.0 64004.8 -1556.7  
1508 9.2 64023.7 -1514.4  
1509 9.8 64028.4 -1504.7  
1510 9.8 64041.6 -1507.1  
1511 7.5 64043.3 -1554.7  
1512 9.5 64051.1 -1528.5  
1513 9.1 64056.0 -1543.7  
1514 9.5 64057.7 -1529.4  
1515 9.8 64117.0 -1530.0

1246 9.8 55451.2 -1538.2  
1247 9.4 55451.6 -1527.0  
1248 8.7 55458.1 -1532.3  
1249 7.2 55507.5 -1535.4  
1250 9.5 55508.1 -1558.4  
1251 9.6 55520.1 -1552.2  
1252 9.1 55534.0 -1513.1  
1253 9.1 55543.3 -1542.1  
1254 10. 55553.2 -1510.9  
1255 9.7 55610.3 -1526.4

1336 9.8 61115.3 -1558.8  
1337 9.0 61146.6 -1545.4  
1338 9.1 61157.9 -1519.4  
1339 10. 61211.8 -1551.5  
1340 9.8 61217.0 -1520.0  
1341 9.4 61223.2 -1503.0  
1342 9.0 61227.0 -1520.7  
1343 9.8 61257.5 -1524.0  
1344 9.9 61253.9 -1559.9  
1345 9.6 61311.5 -1549.2

1426 9.7 62640.7 -1510.4  
1427 8.8 62651.4 -1525.9  
1428 9.4 62704.0 -1533.8  
1429 9.4 62715.4 -1508.7  
1430 9.5 62716.4 -1539.1  
1431 9.0 62737.1 -1527.7  
1432 7.7 62749.8 -1554.0  
1433 8.7 62801.9 -1554.8  
1434 10. 62802.8 -1538.9  
1435 9.3 62809.4 -1520.8

1516 9.4 64120.9 -1513.6  
1517 9.8 64131.2 -1551.7  
1518 9.7 64148.4 -1528.9  
1519 8.3 64148.8 -1510.1  
1520 10. 64204.9 -1525.0  
1521 9.1 64216.3 -1516.8  
1522 9.5 64236.7 -1513.3  
1523 8.8 64277.3 -1544.8  
1524 9.4 64305.3 -1521.6  
1525 9.3 64311.1 -1548.4

1256 9.8 55612.4 -1546.5  
1257 9.3 55613.8 -1516.2  
1258 9.2 55635.4 -1544.5  
1259 9.5 55726.7 -1556.1  
1260 9.6 55731.2 -1505.5  
1261 8.4 55734.8 -1540.3  
1262 9.8 55735.5 -1549.9  
1263 9.8 55749.1 -1542.0  
1264 9.4 55801.7 -1508.5  
1265 8.8 55831.8 -1525.3

1346 8.9 61316.0 -1500.7  
1347 9.3 61320.6 -1529.8  
1348 10. 61334.7 -1550.4  
1349 9.8 61338.0 -1521.0  
1350 9.3 61338.4 -1557.2  
1351 10. 61344.8 -1515.2  
1352 9.2 61404.4 -1532.7  
1353 8.5 61413.7 -1550.8  
1354 10. 61418.2 -1547.2  
1355 9.9 61438.1 -1501.8

1436 9.8 62816.6 -1543.1  
1437 8.8 62817.9 -1555.0  
1438 9.0 62822.2 -1513.1  
1439 9.9 62826.4 -1554.3  
1440 9.5 62843.0 -1525.0  
1441 9.3 62845.7 -1508.8  
1442 9.5 62850.6 -1548.2  
1443 9.2 62855.8 -1553.5  
1444 9.0 62901.4 -1508.8  
1445 9.2 62901.7 -1511.3

1526 10. 64313.1 -1547.3  
1527 9.8 64316.2 -1554.5  
1528 9.6 64320.0 -1541.8  
1529 10. 64323.9 -1542.4  
1530 10. 64327.3 -1543.9  
1531 9.8 64329.2 -1517.6  
1532 9.4 64344.8 -1552.0  
1533 8.1 64352.9 -1552.0  
1534 9.2 64357.1 -1547.5  
1535 9.8 64404.4 -1531.4



-15 1536 6h44m

1536 9.8 64413.2 -1516.5  
1537 9.3 64415.3 -1522.5  
1538 9.4 64417.8 -1524.1  
1539 9.8 64426.6 -1544.3  
1540 9.8 64427.4 -1549.7  
1541 9.4 64437.2 -1514.5  
1542 9.4 64454.8 -1537.1  
1543 9.0 64504.9 -1539.8  
1544 9.6 64512.8 -1531.3  
1545 9.0 64535.0 -1536.3

1546 8.6 64538.4 -1502.3  
1547 9.6 64555.7 -1535.0  
1548 9.3 64605.7 -1525.9  
1549 9.4 64621.0 -1544.4  
1550 9.3 64642.2 -1517.9  
1551 9.5 64712.7 -1526.4  
1552 9.6 64713.8 -1517.5  
1553 9.2 64721.7 -1552.8  
1554 9.6 64732.4 -1537.5  
1555 9.5 64739.3 -1536.8

1556 9.1 64740.5 -1525.1  
1557 9.8 64758.4 -1503.4  
1558 9.3 64810.2 -1516.3  
1559 9.8 64830.4 -1503.8  
1560 7.7 64839.1 -1531.4  
1561 9.8 64841.6 -1512.1  
1562 9.5 64905.6 -1529.2  
1563 9.5 64917.3 -1556.2  
1564 9.0 64940.1 -1534.0  
1565 9.0 64925.0 -1567.1

1566 9.8 64931.4 -1540.5  
1567 8.9 64934.2 -1515.1  
1568 9.4 64952.7 -1530.0  
1569 9.3 64957.3 -1500.4  
1570 9.0 65014.6 -1511.6  
1571 9.8 65025.0 -1547.2  
1572 9.8 65025.9 -1549.5  
1573 8.3 65037.3 -1533.4  
1574 9.8 65040.3 -1523.2  
1575 9.5 65044.5 -1542.5

1576 9.4 65100.3 -1531.7  
1577 9.4 65101.5 -1542.5  
1578 10. 65131.0 -1532.1  
1579 9.4 65132.2 -1534.3  
1580 9.7 65132.7 -1542.8  
1581 7.5 65152.7 -1551.6  
1582 9.6 65203.9 -1502.8  
1583 9.1 65210.4 -1505.2  
1584 9.5 65211.9 -1547.7  
1585 9.5 65220.3 -1502.5

1586 9.6 65234.6 -1525.3  
1587 9.3 65241.4 -1504.6  
1588 9.8 65245.2 -1557.2  
1589 8.8 65253.5 -1547.4  
1590 9.8 65258.2 -1532.9  
1591 9.1 65308.1 -1531.6  
1592 9.3 65312.1 -1551.0  
1593 8.8 65317.3 -1524.0  
1594 8.9 65317.6 -1502.8  
1595 9.8 65335.8 -1553.9

1596 9.7 65344.9 -1527.6  
1597 8.0 65348.9 -1503.4  
1598 4.9 65359.6 -1529.9  
1599 7.2 65404.0 -1511.9  
1600 9.8 65409.7 -1533.7  
1601 9.6 65413.7 -1555.7  
1602 8.3 65415.4 -1507.3  
1603 10. 65421.7 -1552.3  
1604 9.6 65429.1 -1558.7  
1605 9.5 65436.8 -1522.6

1606 9.3 65441.0 -1528.6  
1607 9.6 65455.9 -1541.8  
1608 8.2 65517.5 -1511.4  
1609 9.8 65538.1 -1521.4  
1610 9.3 65543.8 -1503.3  
1611 9.5 65545.3 -1526.4  
1612 9.3 65545.9 -1507.1  
1613 9.5 65558.6 -1554.1  
1614 9.5 65581.2 -1552.4  
1615 9.2 65609.3 -1530.6

1616 9.4 65632.1 -1558.3  
1617 8.0 65633.6 -1548.0  
1618 8.8 65633.8 -1558.5  
1619 9.1 65638.0 -1524.6  
1620 9.1 65644.3 -1503.1  
1621 10. 65651.5 -1538.1  
1622 10. 65652.6 -1531.8  
1623 9.8 65704.6 -1513.5  
1624 9.8 65709.2 -1535.8  
1625 4.3 65711.2 -1525.4

1626 8.9 65713.3 -1504.8  
1627 10. 65714.1 -1505.5  
1628 9.5 65735.8 -1539.2  
1629 8.5 65736.9 -1506.6  
1630 10. 65742.5 -1517.4  
1631 9.8 65807.0 -1545.5  
1632 9.8 65817.2 -1556.5  
1633 10. 65821.0 -1548.6  
1634 9.8 65822.3 -1507.0  
1635 9.1 65823.4 -1521.0

1636 8.8 65824.5 -1510.7  
1637 8.7 65834.5 -1539.3  
1638 9.6 65834.7 -1518.7  
1639 9.6 65848.4 -1529.1  
1640 9.0 65857.5 -1520.2  
1641 10. 65902.0 -1520.9  
1642 9.1 65909.3 -1525.2  
1643 9.0 65928.8 -1550.3  
1644 9.5 65934.1 -1552.7  
1645 9.8 65939.0 -1512.5

1646 9.3 65942.0 -1538.7  
1647 9.7 65956.3 -1520.9  
1648 9.8 65957.8 -1523.4  
1649 9.9 70001.5 -1550.5  
1650 9.8 70010.4 -1526.6  
1651 9.1 70029.3 -1500.5  
1652 9.3 70030.2 -1558.4  
1653 9.4 70050.0 -1510.3  
1654 8.7 70102.1 -1502.5  
1655 9.1 70104.9 -1511.4

1656 10. 70112.5 -1511.8  
1657 7.5 70118.8 -1534.6  
1658 9.2 70123.4 -1507.1  
1659 9.0 70130.8 -1539.0  
1660 9.8 70132.7 -1555.2  
1661 9.6 70141.4 -1557.0  
1662 9.0 70144.3 -1527.1  
1663 9.0 70159.1 -1552.8  
1664 8.3 70214.4 -1542.5  
1665 9.5 70237.8 -1550.2

1666 9.0 70238.5 -1555.6  
1667 9.8 70240.0 -1550.8  
1668 9.5 70247.7 -1532.6  
1669 9.1 70249.5 -1527.7  
1670 9.6 70300.1 -1507.4  
1671 7.2 70300.3 -1507.6  
1672 9.1 70305.4 -1551.6  
1673 9.8 70310.0 -1551.0  
1674 9.5 70310.5 -1521.3  
1675 9.3 70317.7 -1521.6

1676 7.0 70320.6 -1551.9  
1677 9.0 70323.8 -1551.0  
1678 9.2 70327.2 -1521.4  
1679 10. 70328.2 -1550.3  
1680 9.5 70328.8 -1535.9  
1681 7.7 70334.2 -1527.1  
1682 9.1 70340.4 -1522.7  
1683 9.7 70348.9 -1524.0  
1684 8.8 70400.1 -1554.3  
1685 10. 70410.6 -1534.3

1686 9.2 70423.8 -1554.5  
1687 9.8 70444.8 -1529.2  
1688 10. 70447.4 -1531.6  
1689 9.0 70455.1 -1553.6  
1690 8.2 70516.4 -1508.1  
1691 9.8 70517.1 -1551.5  
1692 10. 70529.7 -1543.7  
1693 9.5 70531.0 -1546.1  
1694 8.9 70540.5 -1527.0  
1695 8.2 70610.8 -1515.4

1696 9.8 70612.3 -1505.9  
1697 9.8 70612.6 -1534.7  
1698 9.0 70614.0 -1558.2  
1699 8.7 70619.1 -1554.3  
1700 9.6 70628.3 -1512.5  
1701 9.6 70637.5 -1506.3  
1702 9.9 70639.8 -1517.3  
1703 9.1 70644.0 -1503.0  
1704 9.1 70651.1 -1515.5  
1705 9.7 70652.4 -1527.3

1706 9.3 70654.0 -1533.7  
1707 9.2 70700.5 -1515.7  
1708 9.7 70709.0 -1515.5  
1709 8.7 70722.4 -1522.2  
1710 9.6 70727.5 -1514.0  
1711 9.3 70736.9 -1550.0  
1712 9.4 70744.3 -1508.8  
1713 9.0 70746.2 -1550.2  
1714 8.8 70749.1 -1516.4  
1715 9.2 70750.8 -1504.1

1716 9.8 70753.5 -1543.5  
1717 9.8 70756.4 -1537.5  
1718 9.0 70758.2 -1514.0  
1719 9.3 70759.4 -1540.4  
1720 7.5 70813.1 -1513.7  
1721 9.1 70818.9 -1553.6  
1722 9.6 70819.2 -1547.0  
1723 9.3 70829.0 -1500.9  
1724 9.5 70833.3 -1506.1  
1725 10. 70840.6 -1547.0

1726 10. 70844.7 -1556.1  
1727 9.4 70846.5 -1544.3  
1728 9.8 70854.5 -1546.0  
1729 9.5 70900.0 -1515.5  
1730 9.8 70906.6 -1532.0  
1731 9.8 70913.3 -1514.2  
1732 6.8 70924.0 -1558.7  
1733 9.5 70937.6 -1557.2  
1734 6.0 70940.4 -1519.8  
1735 10. 70947.7 -1533.4

1736 9.2 71002.1 -1543.0  
1737 9.3 71007.8 -1516.3  
1738 9.5 71013.9 -1549.7  
1739 9.7 71028.9 -1518.0  
1740 9.8 71033.6 -1518.0  
1741 10. 71050.0 -1552.7  
1742 9.6 71106.7 -1522.4  
1743 20.0 71110.0 -1523.5  
1744 9.6 71118.3 -1500.4  
1745 9.5 71124.0 -1555.3

1746 9.0 71127.7 -1508.8  
1747 9.8 71127.9 -1531.0  
1748 8.7 71135.2 -1522.0  
1749 9.6 71147.0 -1511.0  
1750 9.8 71147.9 -1516.0  
1751 9.6 71159.7 -1543.1  
1752 10. 71208.3 -1531.6  
1753 8.9 71210.8 -1512.1  
1754 9.6 71214.8 -1538.2  
1755 9.8 71219.9 -1506.5

1756 9.8 71219.9 -1504.6  
1757 9.8 71229.0 -1522.5  
1758 8.9 71231.1 -1540.2  
1759 9.8 71231.2 -1546.3  
1760 9.5 71232.7 -1518.1  
1761 9.2 71232.8 -1501.7  
1762 9.5 71247.5 -1515.9  
1763 9.5 71250.3 -1523.5  
1764 10. 71250.4 -1548.5  
1765 9.8 71251.3 -1543.8

1766 8.0 71200.1 -1537.2  
1767 9.5 71306.5 -1536.6  
1768 9.0 71311.6 -1515.3  
1769 9.8 71317.4 -1508.4  
1770 9.8 71320.5 -1553.1  
1771 9.3 71352.9 -1504.5  
1772 9.5 71356.8 -1504.4  
1773 9.7 71358.8 -1529.6  
1774 9.1 71409.5 -1552.2  
1775 9.8 71430.4 -1537.5

1776 9.8 71436.9 -1506.3  
1777 9.3 71443.5 -1553.0  
1778 9.0 71504.3 -1511.8  
1779 9.4 71508.0 -1552.0  
1780 9.0 71508.6 -1514.2  
1781 10. 71511.9 -1552.0  
1782 9.5 71515.8 -1558.3  
1783 9.1 71537.4 -1525.8  
1784 9.5 71542.7 -1525.8  
1785 9.8 71546.1 -1512.9

1786 8.3 71548.8 -1517.3  
1787 9.2 71549.5 -1553.5  
1788 9.4 71555.4 -1509.7  
1789 9.8 71557.4 -1550.3  
1790 10. 71609.0 -1552.1  
1791 9.4 71613.4 -1550.3  
1792 9.8 71620.9 -1529.6  
1793 9.6 71630.0 -1533.5  
1794 9.3 71640.3 -1545.9  
1795 10. 71649.7 -1516.2

1796 10. 71654.1 -1516.2  
1797 9.5 71654.1 -1505.1  
1798 8.9 71656.7 -1526.4  
1799 7.9 71715.4 -1535.4  
1800 9.8 71717.5 -1555.2  
1801 9.5 71726.5 -1512.6  
1802 9.0 71727.3 -1553.9  
1803 9.1 71731.4 -1549.6  
1804 9.7 71736.9 -1504.8  
1805 9.0 71750.3 -1547.1

1806 9.5 71753.1 -1511.7  
1807 9.7 71756.6 -1529.6  
1808 9.7 71757.2 -1521.7  
1809 9.5 71801.8 -1536.9  
1810 5.8 71806.7 -1555.0  
1811 9.1 71819.3 -1543.6  
1812 9.7 71822.9 -1500.1  
1813 9.8 71832.5 -1504.1  
1814 9.3 71834.7 -1530.8  
1815 9.0 71835.4 -1540.2

1816 9.5 71854.6 -1519.8  
1817 9.5 71909.8 -1503.9  
1818 9.2 71923.7 -1522.9  
1819 10. 71924.7 -1544.1  
1820 7.2 71928.6 -1522.6  
1821 9.8 71944.5 -1515.0  
1822 9.3 71951.2 -1529.1  
1823 9.0 72004.2 -1538.3  
1824 9.2 72005.1 -1518.6  
1825 8.3 72013.9 -1536.5

1826 9.0 72023.0 -1552.2  
1827 9.7 72032.7 -1558.9  
1828 10. 72034.1 -1546.7  
1829 9.8 72036.3 -1516.8  
1830 9.3 72036.8 -1547.5  
1831 10. 72038.7 -1526.5  
1832 9.1 72054.0 -1515.0  
1833 9.4 72054.5 -1526.9  
1834 9.4 72056.7 -1557.6  
1835 9.3 72108.8 -1525.9

1836 9.5 72115.2 -1549.6  
1837 8.9 72116.8 -1548.1  
1838 9.5 72117.6 -1545.8  
1839 9.0 72119.2 -1505.7  
1840 9.6 72126.2 -1550.8  
1841 9.4 72132.1 -1557.8  
1842 9.6 72136.5 -1534.5  
1843 9.2 72145.6 -1541.5  
1844 9.4 72152.5 -1515.7  
1845 9.8 72203.2 -1504.2

1846 10. 72208.7 -1524.7  
1847 9.4 72213.3 -1504.3  
1848 9.6 72217.2 -1544.3  
1849 9.4 72220.2 -1545.0  
1850 10. 72228.2 -1508.0  
1851 8.7 72233.9 -1551.1  
1852 10. 72242.8 -1508.7  
1853 8.7 72250.6 -1546.0  
1854 9.7 72251.4 -1537.1  
1855 9.5 72258.7 -1506.1

1856 8.4 72301.3 -1558.7  
1857 9.3 72307.8 -1506.3  
1858 9.1 72316.1 -1526.5  
1859 9.4 72316.6 -1517.4  
1860 9.8 72318.7 -1552.2  
1861 9.8 72323.4 -1522.7  
1862 8.9 72331.2 -1530.2  
1863 9.2 72333.0 -1534.1  
1864 9.5 72342.0 -1529.2  
1865 8.4 72343.4 -1523.1

1866 9.6 72352.1 -1529.6  
1867 9.5 72358.2 -1534.1  
1868 8.2 72404.5 -1541.5  
1869 9.0 72412.6 -1508.0  
1870 9.8 72423.1 -1545.0  
1871 9.0 72424.7 -1549.0  
1872 9.8 72431.3 -1524.1  
1873 9.1 72433.7 -1500.4  
1874 10. 72438.5 -1513.8  
1875 8.1 72441.1 -1530.4

1876 10. 72441.2 -1557.5  
1877 10. 72451.8 -1507.6  
1878 10. 72502.2 -1507.9  
1879 9.1 72504.1 -1503.0  
1880 10. 72506.8 -1500.7  
1881 10. 72507.9 -1508.0  
1882 9.2 72519.7 -1506.2  
1883 9.8 72528.5 -1515.2  
1884 8.5 72531.3 -1546.3  
1885 9.2 72535.0 -1538.3

1886 9.6 72541.1 -1547.0  
1887 9.6 72543.0 -1547.7  
1888 8.7 72554.4 -1509.2  
1889 9.8 72607.7 -1501.5  
1890 10. 72621.9 -1509.0  
1891 10. 72630.3 -1505.8  
1892 8.0 72637.2 -1508.5  
1893 9.5 72637.2 -1512.3  
1894 9.5 72637.5 -1517.0  
1895 9.0 72643.4 -1545.0

-15 1895 7h26m



-15 1896 7h26m

1896 10. 72648.4 -1531.9  
1897 10. 72656.0 -1555.2  
1898 9.7 72657.6 -1559.2  
1899 9.0 72702.9 -1525.3  
1900 9.8 72710.0 -1542.5  
1901 9.8 72724.4 -1558.9  
1902 9.2 72729.4 -1558.9  
1903 9.3 72735.3 -1558.3  
1904 7.0 72739.7 -1552.7  
1905 9.6 72800.3 -1509.2

1906 9.8 72810.8 -1533.8  
1907 9.1 72812.0 -1519.9  
1908 9.1 72812.5 -1522.0  
1909 9.6 72824.2 -1555.6  
1910 10. 72830.2 -1503.3  
1911 9.8 72834.8 -1551.3  
1912 9.5 72840.6 -1518.7  
1913 9.2 72844.4 -1511.2  
1914 7.2 72846.3 -1503.9  
1915 8.6 72850.1 -1517.6

1916 9.3 72853.8 -1554.0  
1917 10. 72903.2 -1535.4  
1918 9.7 72908.4 -1554.0  
1919 9.7 72910.4 -1549.7  
1920 9.4 72912.7 -1510.8  
1921 9.5 72915.9 -1540.5  
1922 9.8 72918.6 -1503.0  
1923 9.4 72928.1 -1504.0  
1924 10. 72933.4 -1521.2  
1925 10. 72940.8 -1512.3

1926 8.3 72947.2 -1557.4  
1927 9.7 72948.3 -1532.1  
1928 9.2 72952.2 -1546.0  
1929 9.5 73003.3 -1545.1  
1930 9.0 73007.7 -1542.0  
1931 9.1 73011.4 -1536.4  
1932 9.1 73017.2 -1507.5  
1933 9.8 73023.8 -1544.0  
1934 9.4 73027.1 -1500.0  
1935 9.8 73030.1 -1555.6

1936 9.4 73032.5 -1507.8  
1937 9.4 73033.5 -1508.7  
1938 9.4 73047.0 -1512.6  
1939 9.0 73049.8 -1543.7  
1940 8.6 73052.7 -1545.1  
1941 8.0 73056.5 -1521.5  
1942 9.3 73057.7 -1516.9  
1943 10. 73102.2 -1507.5  
1944 10. 73114.2 -1508.5  
1945 9.2 73115.3 -1513.0

1946 9.5 73119.7 -1536.7  
1947 10. 73127.3 -1551.6  
1948 9.4 73129.7 -1535.8  
1949 9.7 73130.9 -1520.7  
1950 7.2 73134.3 -1543.0  
1951 9.5 73135.2 -1507.8  
1952 9.8 73143.0 -1513.6  
1953 9.8 73144.4 -1543.8  
1954 9.9 73145.7 -1534.5  
1955 9.8 73222.2 -1519.4

1956 9.5 73225.4 -1556.9  
1957 9.8 73235.8 -1511.3  
1958 8.8 73236.5 -1513.7  
1959 9.3 73238.6 -1520.9  
1960 9.4 73241.0 -1556.7  
1961 8.0 73244.8 -1559.3  
1962 9.2 73246.0 -1534.6  
1963 9.4 73247.7 -1509.1  
1964 9.8 73257.5 -1556.0  
1965 8.2 73300.0 -1541.9

1966 7.5 73307.1 -1530.0  
1967 9.2 73322.6 -1507.8  
1968 9.6 73337.0 -1548.2  
1969 9.4 73340.0 -1532.0  
1970 9.7 73350.7 -1507.8  
1971 10. 73401.9 -1522.7  
1972 9.5 73406.3 -1549.7  
1973 9.4 73409.9 -1549.1  
1974 9.3 73427.8 -1531.5  
1975 9.4 73433.5 -1557.1

1976 9.3 73433.9 -1525.8  
1977 9.8 73445.1 -1539.0  
1978 9.0 73453.6 -1532.2  
1979 9.3 73453.8 -1512.2  
1980 9.8 73458.5 -1550.8  
1981 8.8 73502.2 -1557.7  
1982 10. 73516.2 -1529.8  
1983 9.8 73521.2 -1508.9  
1984 9.4 73533.4 -1500.6  
1985 9.8 73538.5 -1511.0

1986 8.5 73542.4 -1527.0  
1987 7.0 73544.0 -1543.8  
1988 10. 73545.2 -1502.4  
1989 8.8 73548.6 -1559.8  
1990 9.1 73549.6 -1527.1  
1991 9.1 73551.7 -1556.6  
1992 8.4 73556.4 -1536.7  
1993 9.9 73603.9 -1527.6  
1994 9.8 73604.6 -1520.6  
1995 9.7 73622.3 -1512.9

1996 9.8 73634.9 -1500.4  
1997 9.4 73640.3 -1505.5  
1998 9.6 73640.7 -1520.9  
1999 9.7 73647.9 -1521.8  
2000 9.5 73656.8 -1543.5  
2001 9.6 73659.1 -1531.8  
2002 9.5 73708.3 -1534.8  
2003 10. 73711.8 -1552.7  
2004 9.1 73715.9 -1555.2  
2005 9.5 73719.5 -1523.1

2006 7.7 73720.7 -1549.8  
2007 9.3 73731.9 -1557.3  
2008 9.1 73735.7 -1553.6  
2009 9.9 73742.5 -1548.0  
2010 8.5 73758.7 -1537.5  
2011 9.1 73800.7 -1525.8  
2012 9.6 73805.0 -1512.3  
2013 9.8 73806.2 -1534.3  
2014 8.1 73817.1 -1546.5  
2015 8.7 73819.9 -1521.3

2016 9.8 73823.3 -1519.5  
2017 8.8 73823.9 -1557.2  
2018 9.4 73827.1 -1512.8  
2019 9.5 73845.0 -1537.0  
2020 9.1 73846.9 -1537.9  
2021 9.3 73847.1 -1547.3  
2022 9.5 73850.8 -1551.8  
2023 8.6 73855.3 -1505.7  
2024 9.4 73902.3 -1529.5  
2025 9.5 73908.9 -1525.9

2026 9.8 73911.1 -1545.5  
2027 9.7 73913.6 -1559.9  
2028 9.0 73922.6 -1530.5  
2029 9.8 73927.6 -1509.9  
2030 10. 73929.7 -1526.7  
2031 9.3 73937.6 -1524.0  
2032 9.4 73939.0 -1535.5  
2033 9.5 73942.1 -1527.2  
2034 9.4 73943.7 -1539.7  
2035 9.4 73946.8 -1510.6

2036 9.8 73949.2 -1520.5  
2037 9.6 74003.0 -1559.7  
2038 9.8 74011.5 -1558.5  
2039 10. 74022.3 -1537.7  
2040 10. 74028.5 -1542.1  
2041 9.5 74029.2 -1500.2  
2042 9.8 74034.0 -1505.6  
2043 8.3 74034.0 -1517.7  
2044 9.7 74044.1 -1527.7  
2045 9.3 74044.8 -1558.5

2046 9.4 74050.8 -1548.5  
2047 9.7 74052.7 -1535.5  
2048 9.6 74053.3 -1516.8  
2049 6.2 74102.0 -1537.8  
2050 9.0 74102.4 -1500.2  
2051 9.3 74104.0 -1543.1  
2052 6.7 74108.7 -1539.5  
2053 10. 74134.4 -1548.4  
2054 8.7 74141.3 -1512.2  
2055 10. 74142.2 -1543.4

2056 8.2 74143.4 -1530.7  
2057 9.8 74152.0 -1530.7  
2058 9.7 74154.4 -1526.5  
2059 8.9 74155.7 -1512.5  
2060 9.2 74155.9 -1558.7  
2061 9.6 74202.3 -1528.9  
2062 9.0 74202.8 -1554.5  
2063 9.7 74213.1 -1554.1  
2064 10. 74217.4 -1559.1  
2065 9.9 74220.3 -1549.2

2066 9.4 74227.2 -1558.2  
2067 9.9 74229.3 -1544.4  
2068 8.5 74236.4 -1558.6  
2069 9.1 74239.7 -1538.4  
2070 9.8 74253.0 -1553.7  
2071 9.5 74254.6 -1535.0  
2072 9.4 74300.4 -1513.4  
2073 9.7 74306.4 -1517.8  
2074 9.5 74316.3 -1522.6  
2075 8.7 74323.2 -1502.8

2076 9.8 74333.7 -1539.0  
2077 10. 74334.9 -1510.8  
2078 9.1 74339.6 -1529.4  
2079 8.7 74340.4 -1521.9  
2080 9.2 74350.2 -1510.1  
2081 9.8 74350.5 -1545.0  
2082 9.0 74355.6 -1540.3  
2083 9.8 74356.1 -1549.2  
2084 9.5 74404.1 -1521.0  
2085 9.3 74427.1 -1549.0

2086 8.6 74428.1 -1554.6  
2087 9.5 74435.8 -1547.9  
2088 9.8 74441.6 -1533.5  
2089 9.7 74446.5 -1558.8  
2090 8.2 74448.0 -1530.6  
2091 9.0 74449.1 -1546.2  
2092 9.0 74449.1 -1504.2  
2093 8.9 74451.4 -1552.4  
2094 9.5 74458.8 -1556.9  
2095 9.5 74504.5 -1526.3

2096 9.8 74511.4 -1517.2  
2097 9.8 74527.3 -1548.1  
2098 9.5 74533.4 -1535.0  
2099 10. 74534.4 -1539.0  
2100 9.4 74546.3 -1516.8  
2101 8.8 74550.8 -1504.3  
2102 7.8 74559.2 -1503.3  
2103 9.8 74603.9 -1518.4  
2104 9.6 74608.3 -1514.0  
2105 8.6 74614.8 -1506.0

2106 9.6 74620.4 -1515.2  
2107 9.5 74623.2 -1546.0  
2108 9.0 74635.1 -1504.4  
2109 9.3 74637.8 -1519.2  
2110 8.2 74642.4 -1529.4  
2111 10. 74648.0 -1507.4  
2112 9.4 74659.7 -1517.2  
2113 10. 74659.8 -1533.7  
2114 9.0 74708.3 -1547.1  
2115 9.6 74717.9 -1555.0

2116 9.5 74721.5 -1511.1  
2117 9.6 74726.2 -1548.2  
2118 9.8 74732.2 -1543.8  
2119 9.2 74735.0 -1516.2  
2120 9.0 74737.4 -1525.6  
2121 9.6 74739.5 -1559.4  
2122 9.4 74741.7 -1553.7  
2123 9.8 74815.8 -1515.0  
2124 9.8 74816.1 -1535.0  
2125 9.4 74821.5 -1537.3

2126 9.7 74822.1 -1521.5  
2127 9.0 74833.6 -1513.5  
2128 8.5 74847.4 -1532.9  
2129 9.2 74849.1 -1557.6  
2130 8.7 74851.7 -1527.8  
2131 9.5 74855.9 -1528.8  
2132 8.9 74856.8 -1501.9  
2133 7.1 74858.2 -1511.6  
2134 9.1 74906.9 -1516.3  
2135 9.8 74925.3 -1509.4

2136 9.5 74925.8 -1520.8  
2137 8.5 74927.2 -1530.5  
2138 9.5 74931.2 -1548.4  
2139 9.2 74931.4 -1533.2  
2140 9.2 74935.1 -1537.4  
2141 9.8 74936.4 -1525.3  
2142 9.7 74936.5 -1529.3  
2143 7.2 74952.8 -1508.2  
2144 8.9 75002.4 -1543.7  
2145 9.8 75013.0 -1514.6

2146 9.7 75014.9 -1546.4  
2147 9.4 75022.2 -1529.9  
2148 8.7 75031.2 -1538.9  
2149 9.8 75046.1 -1516.3  
2150 9.4 75054.1 -1505.9  
2151 9.1 75100.4 -1554.2  
2152 9.1 75101.5 -1555.2  
2153 9.2 75102.5 -1542.7  
2154 10. 75108.8 -1522.9  
2155 9.5 75109.7 -1528.5

2156 9.8 75129.6 -1550.7  
2157 9.0 75146.2 -1521.4  
2158 9.4 75147.3 -1539.7  
2159 9.3 75149.8 -1503.9  
2160 10. 75155.3 -1518.3  
2161 7.5 75204.0 -1515.8  
2162 9.2 75207.3 -1543.8  
2163 10. 75215.6 -1509.3  
2164 10. 75215.9 -1556.9  
2165 9.3 75217.7 -1545.5

2166 9.2 75220.6 -1550.4  
2167 9.8 75226.7 -1507.9  
2168 9.6 75234.8 -1505.8  
2169 9.4 75235.9 -1552.7  
2170 9.0 75246.5 -1546.5  
2171 9.7 75253.4 -1534.6  
2172 9.7 75253.7 -1523.3  
2173 9.1 75257.4 -1517.2  
2174 9.7 75257.7 -1538.7  
2175 9.7 75258.4 -1539.4

2176 9.7 75314.1 -1530.0  
2177 9.4 75319.1 -1500.3  
2178 9.4 75324.4 -1506.6  
2179 9.8 75333.5 -1512.9  
2180 9.1 75334.2 -1547.4  
2181 9.5 75341.4 -1532.3  
2182 9.7 75343.2 -1525.1  
2183 9.6 75343.5 -1515.8  
2184 10. 75347.6 -1509.0  
2185 9.7 75354.3 -1522.2

2186 9.4 75358.1 -1500.9  
2187 9.7 75404.4 -1539.7  
2188 9.8 75408.9 -1556.3  
2189 9.2 75410.3 -1556.8  
2190 7.3 75415.4 -1520.6  
2191 10. 75421.7 -1521.8  
2192 9.2 75431.0 -1535.1  
2193 9.6 75438.6 -1553.5  
2194 9.7 75445.5 -1507.2  
2195 9.7 75450.9 -1508.5

2196 9.6 75456.8 -1543.9  
2197 9.5 75502.2 -1522.8  
2198 9.7 75507.0 -1556.6  
2199 9.8 75510.1 -1513.7  
2200 10. 75511.6 -1549.1  
2201 8.0 75514.4 -1511.9  
2202 9.5 75514.4 -1551.6  
2203 9.3 75529.6 -1501.5  
2204 9.4 75532.3 -1552.0  
2205 9.5 75535.4 -1511.9

2206 9.4 75544.1 -1510.7  
2207 9.4 75549.8 -1512.3  
2208 9.7 75551.1 -1555.6  
2209 9.5 75552.1 -1523.3  
2210 9.4 75553.2 -1544.0  
2211 8.7 75558.1 -1502.4  
2212 9.7 75601.4 -1517.0  
2213 9.1 75606.9 -1528.6  
2214 9.7 75612.7 -1516.6  
2215 9.4 75619.9 -1515.9

2216 9.8 75626.5 -1510.7  
2217 9.5 75629.4 -1525.2  
2218 9.5 75630.8 -1556.3  
2219 9.6 75633.1 -1511.7  
2220 9.4 75633.2 -1526.3  
2221 9.5 75635.5 -1504.2  
2222 8.8 75637.2 -1553.6  
2223 9.0 75644.4 -1552.7  
2224 9.5 75645.6 -1540.7  
2225 9.4 75652.2 -1516.4

2226 9.4 75659.7 -1554.8  
2227 10. 75702.0 -1514.7  
2228 10. 75704.0 -1538.8  
2229 9.3 75708.9 -1526.8  
2230 8.5 75711.3 -1528.2  
2231 9.7 75716.8 -1555.5  
2232 8.1 75719.5 -1556.0  
2233 7.8 75721.9 -1516.1  
2234 9.8 75730.0 -1539.9  
2235 9.8 75733.9 -1558.5

2236 9.1 75734.5 -1515.0  
2237 9.0 75751.9 -1522.8  
2238 9.2 75754.3 -1527.8  
2239 9.7 75801.5 -1519.6  
2240 8.7 75801.7 -1533.6  
2241 8.2 75823.0 -1530.7  
2242 9.5 75826.7 -1551.2  
2243 8.3 75836.9 -1512.5  
2244 9.4 75838.7 -1528.3  
2245 9.8 75840.8 -1551.8

2246 9.4 75848.6 -1502.5  
2247 9.7 75853.8 -1547.9  
2248 9.5 75858.6 -1535.1  
2249 9.3 75901.1 -1551.2  
2250 9.0 75908.0 -1557.2  
2251 9.4 75910.3 -1525.9  
2252 9.2 75913.8 -1553.0  
2253 7.8 75916.9 -1559.4  
2254 9.4 75947.1 -1551.5  
2255 9.2 75949.5 -1524.5



-15 2256 7h59m

2256 9.4 75949.8 -1553.5  
2257 9.5 75958.7 -1500.7  
2258 8.8 80004.0 -1531.2  
2259 9.7 80013.1 -1519.8  
2260 9.2 80014.1 -1539.5  
2261 7.8 80015.9 -1523.3  
2262 9.1 80025.1 -1553.8  
2263 9.8 80052.2 -1508.9  
2264 9.7 80053.9 -1548.8  
2265 9.7 80108.1 -1520.1

2266 9.8 80112.6 -1505.5  
2267 9.8 80118.9 -1526.9  
2268 9.4 80124.3 -1542.6  
2269 9.2 80129.8 -1549.9  
2270 9.8 80134.1 -1555.4  
2271 8.3 80205.1 -1516.2  
2272 9.3 80210.3 -1540.3  
2273 8.8 80211.4 -1553.4  
2274 8.5 80216.7 -1533.4  
2275 9.4 80222.8 -1516.2

2276 10.1 80229.5 -1542.9  
2277 10.1 80230.4 -1540.2  
2278 7.3 80236.3 -1508.9  
2279 9.9 80243.9 -1529.4  
2280 5.6 80249.1 -1549.4  
2281 9.8 80255.2 -1531.8  
2282 9.8 80259.1 -1551.3  
2283 9.9 80301.3 -1534.2  
2284 8.9 80304.5 -1536.0  
2285 9.8 80312.5 -1509.7

2286 9.5 80313.7 -1516.2  
2287 9.9 80319.6 -1556.5  
2288 8.7 80323.4 -1516.6  
2289 9.3 80325.7 -1517.9  
2290 10.1 80327.7 -1501.5  
2291 8.9 80327.7 -1553.4  
2292 8.9 80333.7 -1547.4  
2293 10.1 80345.3 -1545.9  
2294 10.1 80346.5 -1521.0  
2295 9.9 80347.4 -1527.8

2296 9.8 80410.3 -1534.0  
2297 9.0 80418.2 -1529.5  
2298 10.1 80423.0 -1508.3  
2299 10.2 80434.1 -1550.7  
2300 8.7 80437.4 -1553.1  
2301 9.7 80447.4 -1530.8  
2302 9.8 80449.0 -1517.8  
2303 9.8 80455.6 -1546.4  
2304 9.0 80456.9 -1541.5  
2305 9.1 80506.1 -1518.9

2306 9.2 80507.9 -1515.2  
2307 8.8 80513.0 -1505.8  
2308 9.5 80513.2 -1531.6  
2309 8.6 80524.6 -1513.4  
2310 8.6 80526.5 -1513.7  
2311 9.8 80527.8 -1504.0  
2312 9.8 80531.3 -1540.0  
2313 9.5 80538.3 -1521.4  
2314 8.8 80543.4 -1506.3  
2315 9.1 80551.2 -1532.1

2316 9.2 80602.4 -1512.7  
2317 9.5 80602.6 -1528.4  
2318 9.5 80609.6 -1542.0  
2319 8.9 80613.7 -1547.0  
2320 9.7 80625.2 -1541.2  
2321 9.7 80626.0 -1532.5  
2322 9.3 80627.5 -1511.1  
2323 9.4 80635.4 -1537.8  
2324 5.4 80639.9 -1521.3  
2325 9.8 80645.0 -1540.2

2326 9.1 80649.6 -1559.9  
2327 9.0 80649.6 -1509.4  
2328 9.8 80650.0 -1553.7  
2329 9.8 80722.6 -1505.9  
2330 10.1 80726.4 -1525.5  
2331 10.1 80726.4 -1529.9  
2332 9.1 80724.3 -1513.4  
2333 8.7 80733.6 -1536.1  
2334 8.3 80742.2 -1544.7  
2335 9.5 80743.8 -1506.9

2336 8.9 80746.2 -1505.9  
2337 9.0 80749.1 -1520.2  
2338 9.4 80753.5 -1523.2  
2339 9.4 80801.7 -1506.7  
2340 9.4 80803.5 -1557.4  
2341 10.1 80814.5 -1520.8  
2342 9.5 80820.6 -1502.0  
2343 8.1 80837.4 -1559.1  
2344 8.9 80847.3 -1541.9  
2345 9.5 80852.6 -1506.1

2346 9.7 80855.5 -1509.9  
2347 9.5 80857.0 -1554.4  
2348 10.1 80901.7 -1542.3  
2349 9.9 80902.0 -1553.0  
2350 9.8 80928.0 -1500.7  
2351 7.1 80931.2 -1514.6  
2352 9.9 80936.6 -1522.2  
2353 9.8 80937.1 -1537.2  
2354 9.6 80944.7 -1557.5  
2355 9.7 80946.8 -1510.3

2356 7.7 80950.0 -1552.6  
2357 8.7 81013.3 -1547.5  
2358 9.5 81027.2 -1508.8  
2359 10.1 81028.8 -1538.9  
2360 10.1 81029.4 -1542.4  
2361 9.8 81041.5 -1537.8  
2362 6.3 81044.3 -1550.3  
2363 9.5 81054.4 -1514.8  
2364 10.1 81056.7 -1501.0  
2365 8.5 81106.0 -1520.8

2366 9.5 81111.9 -1514.4  
2367 9.7 81113.4 -1536.7  
2368 8.6 81127.2 -1527.1  
2369 9.0 81129.7 -1538.3  
2370 8.8 81136.5 -1502.2  
2371 10.1 81206.6 -1534.4  
2372 9.2 81217.4 -1538.2  
2373 9.5 81228.9 -1550.3  
2374 9.1 81233.0 -1504.4  
2375 9.8 81233.7 -1539.4

2376 9.3 81237.7 -1511.2  
2377 9.8 81245.9 -1552.5  
2378 8.0 81257.7 -1503.5  
2379 8.7 81306.9 -1550.4  
2380 10.1 81307.6 -1532.5  
2381 9.3 81327.7 -1539.5  
2382 9.0 81333.8 -1507.6  
2383 8.5 81342.9 -1549.2  
2384 9.3 81349.2 -1506.3  
2385 9.7 81353.5 -1528.0

2386 9.8 81358.4 -1556.0  
2387 9.6 81413.4 -1541.5  
2388 8.0 81413.4 -1502.5  
2389 9.2 81427.4 -1508.3  
2390 8.9 81430.5 -1528.1  
2391 9.8 81436.3 -1512.8  
2392 9.4 81449.2 -1543.0  
2393 9.7 81449.7 -1553.8  
2394 9.4 81452.3 -1518.3  
2395 9.8 81501.3 -1517.6

2396 9.5 81503.1 -1559.9  
2397 8.4 81517.0 -1524.3  
2398 9.5 81517.8 -1530.0  
2399 9.2 81536.1 -1509.2  
2400 9.5 81540.5 -1532.6  
2401 9.4 81554.0 -1504.1  
2402 9.8 81556.5 -1510.8  
2403 9.8 81558.6 -1551.5  
2404 9.7 81602.6 -1559.8  
2405 8.8 81603.5 -1527.5

2406 8.4 81612.0 -1540.4  
2407 9.3 81613.8 -1510.9  
2408 9.9 81615.9 -1505.9  
2409 8.7 81622.2 -1556.1  
2410 9.6 81636.5 -1545.8  
2411 9.8 81653.3 -1545.2  
2412 9.9 81659.6 -1501.0  
2413 9.8 81704.3 -1514.7  
2414 8.9 81708.7 -1558.7  
2415 9.7 81717.0 -1506.9

2416 9.2 81718.3 -1543.4  
2417 8.0 81719.5 -1519.9  
2418 9.7 81740.1 -1501.7  
2419 8.0 81750.9 -1505.6  
2420 9.5 81805.3 -1544.4  
2421 8.6 81808.4 -1548.7  
2422 9.2 81821.4 -1528.1  
2423 9.4 81822.5 -1528.3  
2424 9.5 81836.2 -1525.6  
2425 9.7 81836.5 -1541.1

2426 9.2 81858.0 -1545.0  
2427 9.2 81900.7 -1506.0  
2428 9.6 81911.7 -1553.0  
2429 9.5 81915.8 -1554.7  
2430 9.4 81925.4 -1547.1  
2431 9.7 81927.6 -1522.0  
2432 8.7 81933.0 -1535.5  
2433 10.1 81939.1 -1514.1  
2434 9.5 81942.5 -1558.3  
2435 9.8 81950.2 -1501.1

2436 8.5 81959.1 -1525.2  
2437 9.4 82000.8 -1544.9  
2438 8.6 82005.8 -1506.6  
2439 8.9 82006.9 -1535.4  
2440 9.2 82015.1 -1500.9  
2441 7.4 82022.7 -1510.5  
2442 9.3 82037.3 -1552.9  
2443 9.1 82043.4 -1548.5  
2444 9.5 82047.5 -1510.2  
2445 8.6 82054.6 -1529.1

2446 8.3 82057.7 -1549.0  
2447 10.1 82112.5 -1500.3  
2448 9.7 82114.5 -1502.9  
2449 9.8 82136.9 -1528.9  
2450 9.8 82138.6 -1523.5  
2451 9.3 82201.1 -1529.1  
2452 7.6 82207.7 -1535.5  
2453 9.5 82211.1 -1520.2  
2454 8.7 82212.8 -1523.1  
2455 8.5 82219.6 -1502.9

2456 8.5 82225.8 -1517.5  
2457 9.7 82228.0 -1556.0  
2458 8.9 82254.4 -1521.1  
2459 9.4 82302.1 -1513.8  
2460 9.7 82309.6 -1502.8  
2461 9.5 82314.0 -1550.4  
2462 9.3 82314.8 -1517.9  
2463 9.3 82316.0 -1504.1  
2464 10.1 82335.5 -1535.9  
2465 9.8 82341.8 -1556.3

2466 9.7 82348.1 -1522.3  
2467 9.7 82355.1 -1513.8  
2468 9.8 82356.6 -1552.7  
2469 9.8 82357.5 -1537.8  
2470 9.0 82400.6 -1529.9  
2471 9.3 82403.3 -1557.2  
2472 6.8 82410.8 -1521.1  
2473 8.8 82415.6 -1508.4  
2474 9.0 82421.6 -1503.7  
2475 8.7 82423.4 -1531.0

2476 8.8 82424.1 -1523.7  
2477 8.8 82438.3 -1501.4  
2478 9.8 82450.0 -1516.6  
2479 9.5 82450.2 -1540.3  
2480 9.7 82510.7 -1525.4  
2481 9.9 82525.0 -1513.2  
2482 9.4 82532.6 -1537.7  
2483 9.3 82547.1 -1538.0  
2484 10.1 82611.4 -1556.2  
2485 8.2 82612.5 -1535.9

2486 9.4 82618.2 -1537.5  
2487 7.5 82626.2 -1516.4  
2488 8.3 82628.4 -1543.8  
2489 9.1 82629.7 -1546.9  
2490 9.4 82630.7 -1542.5  
2491 9.4 82636.5 -1512.0  
2492 9.3 82644.6 -1545.3  
2493 9.8 82649.8 -1500.2  
2494 6.3 82651.6 -1536.5  
2495 9.3 82654.9 -1504.9

2496 9.3 82707.2 -1544.5  
2497 9.3 82709.5 -1507.9  
2498 9.8 82711.9 -1519.8  
2499 9.8 82712.4 -1509.1  
2500 9.4 82716.1 -1536.2  
2501 9.8 82721.5 -1555.7  
2502 9.4 82729.3 -1503.8  
2503 9.8 82755.3 -1506.6  
2504 9.2 82800.4 -1558.5  
2505 9.3 82800.5 -1537.0

2506 9.4 82816.6 -1525.8  
2507 9.4 82827.6 -1520.4  
2508 9.3 82837.6 -1542.3  
2509 9.3 82838.8 -1506.4  
2510 8.7 82856.7 -1529.7  
2511 9.5 82901.5 -1542.5  
2512 9.4 82919.5 -1521.8  
2513 9.8 82920.0 -1505.5  
2514 9.3 82927.1 -1538.0  
2515 9.2 82935.2 -1547.9

2516 9.4 82950.3 -1533.7  
2517 9.1 82955.7 -1501.2  
2518 9.4 83004.5 -1518.7  
2519 9.7 83025.4 -1511.0  
2520 7.5 83026.5 -1531.3  
2521 10.1 83031.0 -1537.3  
2522 9.1 83031.5 -1551.6  
2523 9.8 83038.8 -1509.3  
2524 9.1 83049.3 -1524.2  
2525 9.0 83108.3 -1528.2

2526 8.2 83109.5 -1502.5  
2527 9.8 83117.2 -1551.3  
2528 9.4 83119.3 -1531.8  
2529 9.5 83123.1 -1534.1  
2530 9.4 83123.8 -1504.2  
2531 9.4 83133.4 -1535.2  
2532 9.3 83144.1 -1550.0  
2533 9.2 83149.0 -1535.7  
2534 9.2 83207.3 -1531.4  
2535 9.0 83218.2 -1552.6

2536 9.6 83223.7 -1553.4  
2537 9.5 83224.0 -1504.2  
2538 7.8 83228.0 -1531.4  
2539 9.5 83228.2 -1520.5  
2540 9.6 83228.6 -1521.6  
2541 9.1 83254.7 -1500.1  
2542 9.4 83306.2 -1553.0  
2543 9.4 83309.5 -1517.0  
2544 9.3 83327.1 -1523.9  
2545 9.8 83358.2 -1534.8

2546 9.1 83404.7 -1549.2  
2547 9.0 83405.9 -1532.7  
2548 9.6 83406.8 -1520.7  
2549 9.2 83413.0 -1549.4  
2550 9.8 83413.3 -1539.2  
2551 9.0 83422.9 -1541.8  
2552 10.1 83423.7 -1529.5  
2553 9.8 83440.8 -1502.7  
2554 5.4 83459.6 -1525.2  
2555 9.7 83459.6 -1511.6

2556 9.4 83501.9 -1539.6  
2557 8.9 83534.6 -1531.4  
2558 8.4 83555.9 -1528.0  
2559 9.0 83601.7 -1513.1  
2560 9.7 83604.9 -1501.4  
2561 9.0 83608.5 -1553.6  
2562 9.8 83610.4 -1528.4  
2563 9.4 83622.0 -1516.9  
2564 9.5 83631.5 -1538.4  
2565 9.0 83641.9 -1505.7

2566 9.5 83645.2 -1555.7  
2567 9.4 83657.6 -1535.9  
2568 9.4 83701.3 -1544.5  
2569 8.0 83707.0 -1526.1  
2570 9.3 83717.5 -1527.4  
2571 10.1 83721.4 -1521.3  
2572 10.1 83725.3 -1509.5  
2573 9.8 83757.3 -1557.1  
2574 9.0 83812.2 -1529.9  
2575 9.4 83816.9 -1536.9

2576 5.8 83823.1 -1510.2  
2577 9.0 83825.5 -1526.6  
2578 9.0 83825.6 -1521.8  
2579 9.1 83829.5 -1552.0  
2580 9.5 83830.3 -1527.5  
2581 10.1 83831.4 -1537.5  
2582 9.2 83817.9 -1532.7  
2583 9.2 83824.0 -1546.2  
2584 9.5 83824.4 -1502.6  
2585 9.2 83830.2 -1503.0

2586 9.5 83831.5 -1515.5  
2587 9.2 84003.8 -1501.9  
2588 9.5 84005.2 -1516.4  
2589 10.1 84021.4 -1527.6  
2590 9.5 84032.6 -1555.0  
2591 8.5 84040.9 -1516.2  
2592 10.1 84056.6 -1522.5  
2593 9.1 84108.3 -1530.2  
2594 10.1 84122.6 -1531.0  
2595 10.1 84138.2 -1547.7

2596 9.5 84159.9 -1530.7  
2597 7.2 84229.3 -1501.8  
2598 9.5 84233.5 -1540.2  
2599 9.0 84236.9 -1514.8  
2600 8.3 84250.9 -1530.2  
2601 9.5 84254.4 -1513.2  
2602 10.1 84311.3 -1507.4  
2603 10.1 84311.0 -1534.4  
2604 9.0 84329.7 -1531.6  
2605 9.3 84343.6 -1515.7

2606 9.0 84347.8 -1515.9  
2607 8.1 84403.6 -1530.9  
2608 9.3 84451.8 -1517.1  
2609 9.0 84456.6 -1522.3  
2610 9.7 84457.5 -1533.6  
2611 9.4 84457.6 -1533.1  
2612 9.7 84521.9 -1518.9  
2613 10.1 84522.4 -1505.8  
2614 9.4 84532.6 -1559.2  
2615 9.5 84544.5 -1512.2

-15 2615 8h45m



-15 2616 8h45m

2616 7.8 84549.8 -1512.7  
2617 9.2 84554.1 -1502.7  
2618 10. 84618.9 -1521.9  
2619 10. 84623.8 -1510.0  
2620 10. 84626.8 -1515.4  
2621 9.1 84634.1 -1556.6  
2622 9.5 84634.4 -1503.7  
2623 9.5 84652.7 -1512.6  
2624 9.8 84708.5 -1537.4  
2625 9.5 84711.3 -1512.0  
  
2626 8.2 84711.9 -1502.6  
2627 9.0 84713.6 -1534.1  
2628 9.2 84732.9 -1524.2  
2629 9.1 84755.4 -1533.9  
2630 9.3 84801.8 -1548.1  
2631 7.5 84812.5 -1514.2  
2632 9.4 84814.2 -1540.0  
2633 10. 84818.5 -1558.4  
2634 9.7 84820.8 -1518.4  
2635 8.5 84835.4 -1536.0  
  
2636 9.3 84846.2 -1508.6  
2637 9.7 84856.5 -1504.1  
2638 9.6 84857.9 -1508.6  
2639 10. 84902.4 -1526.0  
2640 10. 84918.3 -1500.8  
2641 9.0 84931.1 -1512.6  
2642 8.5 84933.5 -1536.4  
2643 10. 84938.5 -1544.1  
2644 9.5 84944.2 -1535.0  
2645 10. 84952.4 -1548.0  
  
2646 10. 85006.5 -1503.0  
2647 9.8 85031.3 -1522.5  
2648 9.8 85041.9 -1540.3  
2649 9.4 85046.6 -1502.7  
2650 9.6 85050.6 -1507.4  
2651 9.4 85111.3 -1523.8  
2652 9.4 85114.9 -1532.5  
2653 9.8 85115.1 -1529.5  
2654 8.8 85132.0 -1557.3  
2655 9.8 85143.2 -1517.2  
  
2656 6.0 85155.6 -1535.2  
2657 9.8 85201.8 -1501.6  
2658 7.0 85209.3 -1525.7  
2659 7.7 85228.4 -1556.5  
2660 9.5 85237.8 -1506.6  
2661 9.5 85302.6 -1515.4  
2662 9.4 85309.3 -1512.1  
2663 9.5 85313.7 -1558.9  
2664 8.6 85333.6 -1513.1  
2665 7.9 85347.7 -1535.5  
  
2666 9.4 85400.6 -1551.7  
2667 8.8 85410.5 -1547.0  
2668 8.9 85417.1 -1535.2  
2669 9.8 85426.3 -1537.0  
2670 9.4 85429.9 -1525.5  
2671 9.2 85441.6 -1515.4  
2672 9.5 85505.7 -1519.9  
2673 9.6 85509.3 -1535.9  
2674 9.0 85536.2 -1544.4  
2675 9.3 85544.6 -1522.0  
  
2676 9.5 85550.0 -1506.9  
2677 9.7 85554.2 -1528.7  
2678 9.0 85555.9 -1505.1  
2679 9.5 85620.9 -1503.8  
2680 10. 85635.3 -1533.3  
2681 9.4 85658.6 -1533.4  
2682 9.5 85705.3 -1530.4  
2683 9.5 85710.3 -1533.0  
2684 9.2 85723.8 -1533.2  
2685 8.6 85734.1 -1520.7  
  
2686 9.2 85804.1 -1521.8  
2687 9.2 85810.7 -1554.4  
2688 9.1 85815.5 -1524.9  
2689 9.3 85823.9 -1505.0  
2690 9.8 85824.9 -1534.5  
2691 9.3 85839.8 -1522.8  
2692 9.4 85858.6 -1542.7  
2693 9.8 85900.2 -1557.0  
2694 9.5 85901.7 -1558.5  
2695 9.4 85902.6 -1542.0  
  
2696 9.9 85912.1 -1518.0  
2697 10. 85912.7 -1509.7  
2698 8.7 85934.3 -1532.6  
2699 9.3 85939.2 -1530.5  
2700 10. 85949.7 -1512.4  
2701 9.6 85956.2 -1535.5  
2702 10. 90025.0 -1552.7  
2703 8.8 90026.4 -1505.0  
2704 9.8 90034.9 -1507.8  
2705 10. 90035.4 -1544.0

2706 9.5 90101.1 -1528.3  
2707 10. 90105.5 -1514.5  
2708 10. 90105.8 -1500.2  
2709 9.4 90110.0 -1514.3  
2710 8.7 90124.7 -1554.8  
2711 10. 90137.0 -1516.7  
2712 6.8 90157.4 -1541.1  
2713 9.6 90220.8 -1528.8  
2714 8.9 90234.2 -1500.6  
2715 9.3 90243.1 -1550.8  
  
2716 10. 90250.0 -1522.5  
2717 9.5 90255.9 -1515.0  
2718 9.8 90256.6 -1554.1  
2719 9.3 90307.3 -1512.4  
2720 10. 90311.2 -1519.8  
2721 9.7 90311.9 -1527.4  
2722 9.2 90318.5 -1541.3  
2723 9.9 90336.1 -1556.5  
2724 10. 90343.9 -1518.2  
2725 9.1 90351.5 -1553.1  
  
2726 10. 90354.5 -1544.6  
2727 9.5 90435.8 -1508.1  
2728 9.0 90514.4 -1533.0  
2729 9.0 90552.3 -1506.3  
2730 10. 90556.8 -1557.5  
2731 9.1 90612.7 -1505.9  
2732 10. 90629.6 -1529.7  
2733 10. 90637.6 -1505.1  
2734 10. 90643.0 -1554.7  
2735 9.4 90643.3 -1513.5  
  
2736 10. 90648.4 -1533.0  
2737 9.0 90706.2 -1509.2  
2738 10. 90711.0 -1557.1  
2739 10. 90724.3 -1516.1  
2740 10. 90800.9 -1557.7  
2741 9.5 90821.0 -1528.5  
2742 9.5 90822.7 -1532.3  
2743 9.1 90823.1 -1523.1  
2744 10. 90823.8 -1516.1  
2745 9.5 90848.7 -1509.5  
  
2746 9.8 90854.2 -1511.7  
2747 9.5 90901.4 -1548.4  
2748 9.7 90926.0 -1525.8  
2749 9.1 90939.2 -1536.6  
2750 9.5 90940.8 -1520.2  
2751 9.1 91004.1 -1503.6  
2752 8.5 91031.8 -1543.4  
2753 9.4 91032.9 -1554.5  
2754 9.4 91048.8 -1539.2  
2755 9.8 91049.2 -1518.1  
  
2756 9.4 91108.7 -1512.8  
2757 10. 91133.2 -1513.3  
2758 9.9 91205.5 -1520.5  
2759 9.7 91206.8 -1506.6  
2760 10. 91208.8 -1547.0  
2761 9.5 91216.9 -1559.2  
2762 9.1 91226.6 -1510.5  
2763 6.0 91241.7 -1513.6  
2764 9.4 91250.8 -1535.6  
2765 10. 91308.5 -1504.0  
  
2766 9.0 91349.3 -1537.7  
2767 9.4 91354.2 -1519.4  
2768 9.2 91415.6 -1518.2  
2769 8.3 91419.2 -1537.5  
2770 9.7 91422.8 -1528.2  
2771 9.4 91441.8 -1530.8  
2772 9.7 91443.8 -1524.9  
2773 9.5 91522.2 -1544.2  
2774 9.0 91602.3 -1556.0  
2775 10. 91623.2 -1522.6  
  
2776 9.3 91624.8 -1539.4  
2777 9.7 91632.2 -1541.7  
2778 8.2 91641.5 -1511.0  
2779 9.1 91703.7 -1520.0  
2780 8.9 91726.1 -1524.2  
2781 9.4 91726.2 -1546.2  
2782 8.8 91727.4 -1544.3  
2783 9.8 91731.6 -1547.9  
2784 9.8 91750.3 -1557.4  
2785 10. 91755.2 -1543.7  
  
2786 9.3 91757.7 -1550.5  
2787 7.8 91800.4 -1501.2  
2788 8.3 91822.6 -1545.8  
2789 9.8 91826.5 -1510.4  
2790 9.1 91831.1 -1517.9  
2791 8.5 91839.4 -1528.1  
2792 9.1 91935.6 -1523.1  
2793 9.7 91942.1 -1533.5  
2794 9.0 91945.9 -1548.7  
2795 9.3 91947.8 -1534.0

2796 7.7 91951.4 -1549.3  
2797 9.2 92002.5 -1539.3  
2798 8.5 92008.1 -1552.4  
2799 7.2 92009.0 -1523.1  
2800 9.7 92012.4 -1548.2  
2801 9.0 92015.1 -1552.5  
2802 10. 92021.9 -1522.5  
2803 9.0 92028.0 -1507.9  
2804 9.3 92043.6 -1516.0  
2805 9.8 92122.7 -1515.6  
  
2806 9.5 92124.1 -1543.0  
2807 8.9 92124.8 -1553.0  
2808 9.6 92136.9 -1512.0  
2809 8.0 92144.0 -1553.6  
2810 9.0 92145.5 -1543.1  
2811 9.0 92201.3 -1533.7  
2812 8.5 92206.4 -1511.3  
2813 9.3 92214.0 -1550.7  
2814 9.8 92223.0 -1538.6  
2815 9.8 92236.3 -1524.7  
  
2816 9.2 92236.6 -1533.5  
2817 9.1 92313.2 -1501.2  
2818 10. 92329.7 -1539.7  
2819 9.1 92354.4 -1518.4  
2820 9.7 92401.5 -1546.5  
2821 8.4 92405.5 -1506.2  
2822 9.8 92447.0 -1534.1  
2823 9.8 92506.8 -1554.2  
2824 9.0 92506.9 -1519.9  
2825 10. 92543.5 -1513.9  
  
2826 9.2 92544.4 -1537.5  
2827 10. 92554.9 -1548.2  
2828 9.2 92556.0 -1558.4  
2829 9.4 92621.9 -1501.2  
2830 9.8 92633.0 -1512.2  
2831 9.5 92658.3 -1543.0  
2832 9.8 92707.5 -1525.3  
2833 8.8 92710.4 -1502.7  
2834 10. 92719.1 -1523.4  
2835 9.4 92725.0 -1512.7  
  
2836 9.4 92738.8 -1514.5  
2837 7.8 92745.3 -1544.1  
2838 9.0 92812.6 -1521.8  
2839 9.1 92827.4 -1538.1  
2840 9.0 92838.9 -1549.7  
2841 8.8 92843.6 -1526.2  
2842 9.4 92850.5 -1539.0  
2843 9.3 92947.9 -1557.3  
2844 7.8 93048.8 -1503.2  
2845 9.5 93054.7 -1529.0  
  
2846 8.8 93057.2 -1537.5  
2847 8.7 93104.2 -1535.1  
2848 10. 93108.5 -1519.9  
2849 9.8 93118.1 -1525.2  
2850 9.0 93129.3 -1507.2  
2851 9.5 93139.3 -1537.3  
2852 9.4 93149.3 -1553.0  
2853 9.8 93157.2 -1539.5  
2854 9.5 93158.5 -1535.7  
2855 10. 93208.3 -1503.8  
  
2856 9.6 93213.7 -1540.5  
2857 10. 93224.4 -1524.2  
2858 9.4 93230.1 -1523.7  
2859 9.4 93230.2 -1516.6  
2860 8.2 93236.9 -1518.5  
2861 9.0 93240.2 -1541.8  
2862 10. 93306.4 -1517.3  
2863 10. 93313.6 -1514.6  
2864 9.1 93320.3 -1514.8  
2865 9.4 93323.2 -1554.2  
  
2866 9.8 93324.1 -1529.7  
2867 8.3 93324.6 -1541.8  
2868 9.5 93402.9 -1548.3  
2869 9.9 93420.6 -1559.6  
2870 9.9 93422.6 -1545.0  
2871 9.4 93512.8 -1521.9  
2872 9.4 93514.7 -1554.0  
2873 8.2 93523.5 -1515.7  
2874 8.7 93523.8 -1520.1  
2875 8.7 93534.7 -1512.1  
  
2876 9.3 93536.9 -1521.4  
2877 9.4 93551.2 -1521.4  
2878 10. 93556.8 -1535.9  
2879 8.0 93624.6 -1540.3  
2880 9.8 93626.3 -1518.5  
2881 9.1 93629.2 -1558.4  
2882 10. 93635.6 -1506.8  
2883 10. 93654.8 -1521.9  
2884 10. 93700.5 -1507.0  
2885 9.0 93706.8 -1549.1

2886 9.3 93707.1 -1550.7  
2887 9.3 93737.6 -1539.5  
2888 9.5 93738.8 -1558.0  
2889 10. 93751.1 -1556.7  
2890 9.0 93756.9 -1532.3  
2891 9.1 93802.3 -1538.8  
2892 9.1 93802.6 -1553.1  
2893 9.4 93821.1 -1537.6  
2894 9.5 93823.6 -1543.0  
2895 10. 93828.7 -1523.0  
  
2896 9.5 93842.3 -1542.8  
2897 9.5 93907.6 -1557.2  
2898 8.5 93936.5 -1547.3  
2899 9.8 93933.3 -1532.9  
2900 7.8 93956.1 -1552.9  
2901 9.0 94109.0 -1504.0  
2902 8.6 94114.7 -1521.6  
2903 9.6 94122.9 -1506.2  
2904 10. 94141.5 -1535.6  
2905 9.0 94144.0 -1539.4  
  
2906 9.0 94144.0 -1525.6  
2907 8.5 94152.9 -1544.3  
2908 9.2 94153.1 -1513.5  
2909 10. 94222.5 -1529.6  
2910 8.0 94242.0 -1558.1  
2911 10. 94246.4 -1528.7  
2912 9.4 94252.4 -1547.8  
2913 9.8 94255.5 -1558.1  
2914 10. 94332.4 -1501.4  
2915 9.5 94347.1 -1533.3  
  
2916 7.7 94404.0 -1512.1  
2917 9.7 94410.4 -1515.2  
2918 8.2 94430.4 -1552.8  
2919 9.8 94441.3 -1534.8  
2920 6.5 94503.3 -1551.4  
2921 8.5 94546.4 -1542.2  
2922 10. 94551.4 -1544.0  
2923 8.5 94554.5 -1514.1  
2924 9.1 94622.3 -1516.8  
2925 8.6 94628.4 -1503.9  
  
2926 9.8 94712.3 -1532.2  
2927 9.3 94726.5 -1521.6  
2928 9.1 94733.5 -1520.5  
2929 7.2 94804.5 -1530.7  
2930 10. 94844.8 -1554.4  
2931 9.7 94851.9 -1525.2  
2932 9.0 94910.7 -1547.0  
2933 9.4 94911.8 -1540.1  
2934 9.4 94919.4 -1520.3  
2935 9.3 94926.6 -1512.8  
  
2936 9.2 94938.3 -1511.5  
2937 9.2 94956.8 -1513.1  
2938 8.0 95001.3 -1512.4  
2939 9.0 95014.3 -1511.5  
2940 9.8 95014.8 -1525.5  
2941 9.8 95029.2 -1549.1  
2942 7.0 95043.1 -1549.7  
2943 9.7 95104.4 -1519.4  
2944 9.2 95108.0 -1515.5  
2945 9.7 95125.8 -1514.2  
  
2946 10. 95126.2 -1546.2  
2947 9.4 95128.3 -1512.8  
2948 10. 95131.7 -1546.5  
2949 7.7 95211.3 -1519.0  
2950 9.8 95220.1 -1503.4  
2951 9.1 95243.5 -1533.2  
2952 8.5 95252.3 -1535.7  
2953 10. 95310.2 -1510.4  
2954 8.0 95319.9 -1548.4  
2955 8.7 95325.7 -1536.0  
  
2956 9.5 95328.8 -1522.2  
2957 10. 95333.1 -1511.0  
2958 9.1 95355.7 -1513.4  
2959 9.5 95424.6 -1548.2  
2960 9.2 95432.6 -1546.7  
2961 10. 95444.0 -1503.9  
2962 9.9 95456.1 -1529.3  
2963 9.3 95513.6 -1525.2  
2964 9.1 95517.9 -1551.4  
2965 9.9 95520.6 -1507.3  
  
2966 8.3 95531.2 -1518.9  
2967 9.0 95539.6 -1552.5  
2968 9.2 95623.5 -1540.2  
2969 9.7 95654.0 -1501.2  
2970 9.1 95715.4 -1535.0  
2971 9.4 95734.6 -1550.5  
2972 10. 95855.7 -1533.0  
2973 10. 95856.0 -1510.5  
2974 9.8 95856.7 -1546.8  
2975 9.8 95910.0 -1514.6

-15 2975 9h59m



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 2976 | 9.3  | 95930.0  | -1527.0 | 3066 | 9.1  | 102153.3 | -1524.7 | 3156 | 9.6  | 104622.7 | -1522.2 | 3246 | 9.8  | 111305.8 | -1502.8 |
| 2977 | 9.5  | 95930.9  | -1545.7 | 3067 | 9.1  | 102206.1 | -1502.1 | 3157 | 9.9  | 104629.5 | -1522.4 | 3247 | 10.1 | 111318.1 | -1521.1 |
| 2978 | 9.1  | 95933.0  | -1547.5 | 3068 | 9.6  | 102208.6 | -1532.1 | 3158 | 10.1 | 104632.6 | -1530.5 | 3248 | 9.7  | 111322.8 | -1505.5 |
| 2979 | 8.0  | 95934.5  | -1538.3 | 3069 | 8.0  | 102309.7 | -1556.3 | 3159 | 9.2  | 104746.0 | -1504.0 | 3249 | 9.7  | 111355.2 | -1504.8 |
| 2980 | 10.1 | 100006.7 | -1508.5 | 3070 | 9.5  | 102334.8 | -1532.0 | 3160 | 9.5  | 104757.1 | -1540.4 | 3250 | 9.8  | 111440.7 | -1501.2 |
| 2981 | 9.5  | 100021.8 | -1502.8 | 3071 | 9.6  | 102410.3 | -1502.6 | 3161 | 9.4  | 104806.2 | -1527.8 | 3251 | 10.1 | 111458.4 | -1557.2 |
| 2982 | 9.5  | 100024.6 | -1520.5 | 3072 | 9.0  | 102431.1 | -1539.5 | 3162 | 8.2  | 104838.8 | -1535.7 | 3252 | 10.1 | 111507.0 | -1546.2 |
| 2983 | 9.0  | 100027.1 | -1543.7 | 3073 | 9.9  | 102437.8 | -1524.2 | 3163 | 9.6  | 104846.8 | -1531.5 | 3253 | 10.1 | 111511.9 | -1540.0 |
| 2984 | 9.1  | 100027.5 | -1509.4 | 3074 | 9.5  | 102443.2 | -1507.2 | 3164 | 9.1  | 105004.4 | -1550.1 | 3254 | 8.7  | 111516.6 | -1534.9 |
| 2985 | 9.1  | 100039.5 | -1558.8 | 3075 | 9.5  | 102507.3 | -1520.4 | 3165 | 9.5  | 105004.7 | -1505.3 | 3255 | 7.7  | 111527.5 | -1522.2 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 2986 | 9.3  | 100048.6 | -1528.3 | 3076 | 9.4  | 102534.9 | -1531.1 | 3166 | 9.9  | 105006.6 | -1557.3 | 3256 | 8.0  | 111550.2 | -1548.6 |
| 2987 | 9.8  | 100055.5 | -1511.2 | 3077 | 8.6  | 102559.1 | -1504.3 | 3167 | 9.1  | 105018.1 | -1504.1 | 3257 | 10.1 | 111616.8 | -1507.7 |
| 2988 | 9.8  | 100151.9 | -1511.2 | 3078 | 9.2  | 102644.0 | -1506.3 | 3168 | 9.8  | 105022.1 | -1556.2 | 3258 | 10.1 | 111648.5 | -1541.0 |
| 2989 | 9.5  | 100204.3 | -1537.9 | 3079 | 10.1 | 102706.6 | -1526.1 | 3169 | 9.8  | 105119.9 | -1551.5 | 3259 | 9.5  | 111655.2 | -1507.3 |
| 2990 | 9.5  | 100209.4 | -1544.8 | 3080 | 9.0  | 102744.1 | -1511.4 | 3170 | 9.4  | 105123.0 | -1539.6 | 3260 | 9.3  | 111657.4 | -1553.0 |
| 2991 | 9.5  | 100213.0 | -1518.2 | 3081 | 9.7  | 102807.8 | -1525.5 | 3171 | 9.8  | 105139.9 | -1537.9 | 3261 | 9.5  | 111727.3 | -1517.6 |
| 2992 | 10.1 | 100244.3 | -1511.1 | 3082 | 9.0  | 102814.9 | -1530.0 | 3172 | 9.8  | 105157.1 | -1534.6 | 3262 | 10.1 | 111735.4 | -1553.2 |
| 2993 | 9.4  | 100258.6 | -1548.5 | 3083 | 9.4  | 102828.0 | -1506.1 | 3173 | 9.5  | 105204.7 | -1512.7 | 3263 | 9.1  | 111812.4 | -1522.4 |
| 2994 | 9.7  | 100310.0 | -1525.8 | 3084 | 9.8  | 102828.3 | -1542.2 | 3174 | 6.5  | 105221.1 | -1534.5 | 3264 | 9.2  | 111828.4 | -1521.2 |
| 2995 | 10.1 | 100334.1 | -1553.3 | 3085 | 9.5  | 102905.0 | -1504.4 | 3175 | 9.5  | 105257.5 | -1528.1 | 3265 | 9.4  | 111910.2 | -1548.0 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 2996 | 9.8  | 100404.4 | -1557.5 | 3086 | 9.8  | 102911.1 | -1512.1 | 3176 | 9.8  | 105306.7 | -1521.5 | 3266 | 9.2  | 111930.2 | -1537.7 |
| 2997 | 10.1 | 100414.8 | -1501.0 | 3087 | 6.3  | 102912.3 | -1535.8 | 3177 | 9.5  | 105331.9 | -1545.1 | 3267 | 9.9  | 111959.3 | -1515.8 |
| 2998 | 9.7  | 100429.1 | -1534.9 | 3088 | 8.7  | 102915.2 | -1527.1 | 3178 | 7.0  | 105346.2 | -1500.3 | 3268 | 9.3  | 112022.1 | -1507.9 |
| 2999 | 9.1  | 100457.9 | -1519.8 | 3089 | 9.8  | 102947.2 | -1532.9 | 3179 | 9.0  | 105455.8 | -1541.8 | 3269 | 9.4  | 112030.7 | -1530.8 |
| 3000 | 8.0  | 100514.1 | -1528.1 | 3090 | 9.2  | 103000.4 | -1550.0 | 3180 | 9.5  | 105501.4 | -1544.0 | 3270 | 8.5  | 112033.5 | -1503.8 |
| 3001 | 8.0  | 100517.2 | -1522.3 | 3091 | 9.5  | 103002.1 | -1512.8 | 3181 | 8.8  | 105505.0 | -1509.2 | 3271 | 10.1 | 112050.1 | -1502.7 |
| 3002 | 9.8  | 100528.4 | -1523.7 | 3092 | 9.8  | 103025.3 | -1516.2 | 3182 | 9.3  | 105506.1 | -1548.5 | 3272 | 7.0  | 112056.3 | -1505.2 |
| 3003 | 8.6  | 100529.3 | -1510.2 | 3093 | 9.0  | 103026.0 | -1506.8 | 3183 | 8.7  | 105509.9 | -1559.0 | 3273 | 9.0  | 112057.6 | -1549.1 |
| 3004 | 10.1 | 100535.5 | -1534.5 | 3094 | 10.1 | 103049.0 | -1517.5 | 3184 | 9.4  | 105515.3 | -1545.5 | 3274 | 9.6  | 112127.0 | -1530.1 |
| 3005 | 9.4  | 100549.8 | -1522.8 | 3095 | 9.8  | 103126.8 | -1504.5 | 3185 | 9.3  | 105543.0 | -1506.6 | 3275 | 7.5  | 112135.7 | -1547.8 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3006 | 9.4  | 100549.8 | -1509.8 | 3096 | 8.8  | 103147.2 | -1511.7 | 3186 | 9.3  | 105619.3 | -1524.0 | 3276 | 10.1 | 112151.2 | -1517.7 |
| 3007 | 1.0  | 100553.1 | -1503.3 | 3097 | 10.1 | 103147.4 | -1533.6 | 3187 | 8.6  | 105621.5 | -1507.0 | 3277 | 9.4  | 112213.9 | -1529.7 |
| 3008 | 10.1 | 100645.3 | -1502.1 | 3098 | 9.4  | 103159.2 | -1547.5 | 3188 | 9.5  | 105641.9 | -1506.0 | 3278 | 9.3  | 112215.1 | -1557.6 |
| 3009 | 9.5  | 100645.7 | -1551.5 | 3099 | 8.9  | 103224.8 | -1559.1 | 3189 | 8.3  | 105733.7 | -1528.5 | 3279 | 10.1 | 112227.8 | -1520.4 |
| 3010 | 9.1  | 100713.2 | -1552.5 | 3100 | 10.1 | 103233.3 | -1552.9 | 3190 | 9.1  | 105813.8 | -1504.0 | 3280 | 9.8  | 112236.2 | -1539.5 |
| 3011 | 10.1 | 100734.1 | -1525.5 | 3101 | 8.7  | 103253.7 | -1534.2 | 3191 | 9.0  | 105818.3 | -1556.5 | 3281 | 10.1 | 112256.7 | -1510.6 |
| 3012 | 9.8  | 100809.6 | -1546.2 | 3102 | 9.6  | 103257.5 | -1516.2 | 3192 | 8.8  | 105837.5 | -1529.7 | 3282 | 9.3  | 112258.6 | -1531.1 |
| 3013 | 9.1  | 100811.8 | -1512.4 | 3103 | 8.2  | 103303.1 | -1527.0 | 3193 | 9.1  | 105851.6 | -1515.9 | 3283 | 9.1  | 112259.4 | -1538.8 |
| 3014 | 10.1 | 100829.1 | -1504.7 | 3104 | 9.4  | 103312.8 | -1500.8 | 3194 | 8.9  | 105858.0 | -1512.1 | 3284 | 9.8  | 112312.5 | -1504.9 |
| 3015 | 9.7  | 100835.2 | -1547.5 | 3105 | 9.7  | 103339.1 | -1532.4 | 3195 | 9.3  | 105907.8 | -1543.6 | 3285 | 9.4  | 112408.6 | -1533.0 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3016 | 9.8  | 100846.1 | -1539.5 | 3106 | 8.6  | 103345.3 | -1501.2 | 3196 | 7.7  | 105913.7 | -1544.9 | 3286 | 9.1  | 112415.8 | -1525.1 |
| 3017 | 9.7  | 100905.2 | -1533.6 | 3107 | 9.4  | 103355.2 | -1501.9 | 3197 | 8.8  | 105926.5 | -1502.9 | 3287 | 10.1 | 112420.0 | -1553.0 |
| 3018 | 7.3  | 100915.9 | -1525.1 | 3108 | 9.5  | 103407.1 | -1549.4 | 3198 | 10.1 | 105931.6 | -1503.9 | 3288 | 9.6  | 112457.8 | -1530.8 |
| 3019 | 10.1 | 100936.1 | -1506.2 | 3109 | 9.8  | 103426.2 | -1551.6 | 3199 | 9.2  | 105947.9 | -1542.6 | 3289 | 10.1 | 112503.4 | -1501.8 |
| 3020 | 9.1  | 100937.7 | -1508.7 | 3110 | 9.2  | 103443.6 | -1545.4 | 3200 | 10.1 | 110008.6 | -1520.3 | 3290 | 9.3  | 112521.1 | -1548.9 |
| 3021 | 9.4  | 100939.4 | -1530.9 | 3111 | 8.3  | 103501.9 | -1520.0 | 3201 | 9.2  | 110010.9 | -1527.0 | 3291 | 8.4  | 112525.3 | -1549.6 |
| 3022 | 9.5  | 101001.0 | -1535.7 | 3112 | 10.1 | 103535.4 | -1518.9 | 3202 | 9.8  | 110030.0 | -1545.8 | 3292 | 10.1 | 112534.1 | -1517.5 |
| 3023 | 9.6  | 101018.3 | -1519.0 | 3113 | 10.1 | 103539.1 | -1519.4 | 3203 | 8.7  | 110039.4 | -1515.0 | 3293 | 9.1  | 112536.2 | -1555.1 |
| 3024 | 10.1 | 101041.2 | -1525.1 | 3114 | 8.9  | 103611.6 | -1556.0 | 3204 | 9.5  | 110057.7 | -1522.9 | 3294 | 9.8  | 112549.0 | -1508.9 |
| 3025 | 9.8  | 101057.6 | -1507.5 | 3115 | 9.0  | 103614.5 | -1524.9 | 3205 | 10.1 | 110101.0 | -1557.1 | 3295 | 6.2  | 112555.8 | -1528.7 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3026 | 9.3  | 101222.7 | -1521.3 | 3116 | 8.7  | 103625.0 | -1553.8 | 3206 | 7.9  | 110103.8 | -1510.6 | 3296 | 9.1  | 112621.5 | -1531.8 |
| 3027 | 9.6  | 101231.5 | -1530.8 | 3117 | 10.1 | 103635.9 | -1521.3 | 3207 | 9.8  | 110146.4 | -1525.9 | 3297 | 6.8  | 112645.5 | -1514.7 |
| 3028 | 9.3  | 101254.4 | -1530.0 | 3118 | 10.1 | 103649.8 | -1521.7 | 3208 | 9.6  | 110158.9 | -1554.7 | 3298 | 8.5  | 112648.2 | -1536.2 |
| 3029 | 8.5  | 101326.1 | -1559.3 | 3119 | 9.9  | 103655.0 | -1554.0 | 3209 | 9.4  | 110240.5 | -1521.8 | 3299 | 9.4  | 112703.1 | -1523.6 |
| 3030 | 8.0  | 101334.9 | -1537.7 | 3120 | 8.8  | 103726.9 | -1538.0 | 3210 | 10.1 | 110255.4 | -1515.6 | 3300 | 9.8  | 112718.5 | -1544.9 |
| 3031 | 9.0  | 101337.5 | -1559.6 | 3121 | 9.1  | 103813.8 | -1525.4 | 3211 | 9.8  | 110259.8 | -1541.7 | 3301 | 9.8  | 112722.9 | -1556.0 |
| 3032 | 9.8  | 101348.9 | -1529.7 | 3122 | 9.1  | 103849.6 | -1535.4 | 3212 | 9.5  | 110301.4 | -1549.4 | 3302 | 9.0  | 112735.4 | -1510.0 |
| 3033 | 9.6  | 101359.2 | -1521.9 | 3123 | 8.2  | 103854.0 | -1558.1 | 3213 | 9.3  | 110301.6 | -1517.5 | 3303 | 8.5  | 112803.2 | -1518.2 |
| 3034 | 9.4  | 101426.5 | -1528.6 | 3124 | 9.1  | 103925.6 | -1502.5 | 3214 | 9.7  | 110304.7 | -1542.6 | 3304 | 10.1 | 112833.2 | -1528.7 |
| 3035 | 8.9  | 101433.3 | -1555.2 | 3125 | 9.1  | 103927.2 | -1549.6 | 3215 | 9.4  | 110313.7 | -1513.0 | 3305 | 9.5  | 112858.7 | -1502.9 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3036 | 10.1 | 101439.2 | -1546.8 | 3126 | 9.8  | 103934.1 | -1539.4 | 3216 | 8.3  | 110323.3 | -1540.1 | 3306 | 10.1 | 112903.0 | -1536.5 |
| 3037 | 9.8  | 101439.6 | -1557.5 | 3127 | 10.1 | 103948.8 | -1505.2 | 3217 | 10.1 | 110412.2 | -1535.2 | 3307 | 10.1 | 112910.2 | -1531.9 |
| 3038 | 10.1 | 101453.1 | -1521.4 | 3128 | 9.3  | 103948.9 | -1507.4 | 3218 | 10.1 | 110416.7 | -1510.7 | 3308 | 9.4  | 112915.9 | -1543.7 |
| 3039 | 9.4  | 101458.0 | -1552.1 | 3129 | 9.8  | 104005.8 | -1538.8 | 3219 | 9.5  | 110420.9 | -1539.8 | 3309 | 10.1 | 112943.2 | -1520.6 |
| 3040 | 9.7  | 101509.9 | -1537.0 | 3130 | 8.8  | 104015.2 | -1519.7 | 3220 | 9.8  | 110430.4 | -1540.3 | 3310 | 9.7  | 112949.9 | -1515.8 |
| 3041 | 9.6  | 101522.5 | -1518.1 | 3131 | 10.1 | 104016.1 | -1511.9 | 3221 | 9.4  | 110446.8 | -1511.7 | 3311 | 9.5  | 113014.7 | -1502.7 |
| 3    |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |



3336 9.8 113530.1 -1542.8  
 3337 8.4 113539.5 -1535.7  
 3338 10. 113548.6 -1507.6  
 3339 9.5 113550.6 -1553.1  
 3340 9.1 113556.2 -1506.4  
 3341 8.8 113603.1 -1552.6  
 3342 9.5 113621.6 -1507.7  
 3343 8.5 113627.6 -1557.3  
 3344 9.8 113634.9 -1528.9  
 3345 9.4 113636.1 -1537.4

3346 9.7 113705.7 -1525.6  
 3347 8.7 113707.6 -1548.4  
 3348 9.6 113752.4 -1529.3  
 3349 7.7 113816.2 -1516.7  
 3350 9.8 113847.6 -1521.4  
 3351 10. 113857.5 -1506.9  
 3352 9.3 113916.5 -1543.2  
 3353 9.4 113920.6 -1517.4  
 3354 9.4 114034.9 -1538.8  
 3355 9.3 114043.4 -1547.3

3356 7.3 114047.9 -1544.6  
 3357 9.1 114113.9 -1548.8  
 3358 7.5 114130.4 -1547.8  
 3359 10. 114144.4 -1509.1  
 3360 9.3 114208.9 -1547.9  
 3361 10. 114223.0 -1512.6  
 3362 9.4 114239.9 -1554.8  
 3363 6.2 114257.2 -1503.5  
 3364 9.4 114312.3 -1508.1  
 3365 9.7 114338.1 -1556.5

3366 9.3 114357.7 -1512.3  
 3367 9.5 114403.5 -1547.5  
 3368 9.1 114406.1 -1518.5  
 3369 9.0 114422.5 -1536.2  
 3370 10. 114441.8 -1542.0  
 3371 9.8 114445.3 -1548.9  
 3372 9.5 114456.6 -1521.0  
 3373 9.5 114532.7 -1527.6  
 3374 8.6 114540.9 -1529.3  
 3375 7.7 114600.0 -1547.1

3376 7.5 114610.0 -1518.4  
 3377 9.2 114655.5 -1513.4  
 3378 9.3 114710.2 -1539.0  
 3379 10. 114719.2 -1521.2  
 3380 9.6 114745.8 -1552.2  
 3381 9.0 114754.0 -1515.6  
 3382 9.1 114811.0 -1508.4  
 3383 9.8 114839.7 -1509.6  
 3384 9.1 114839.8 -1540.0  
 3385 8.8 114951.2 -1538.9

3386 9.8 114956.4 -1506.8  
 3387 8.7 115013.7 -1528.7  
 3388 9.1 115021.4 -1515.8  
 3389 9.9 115024.6 -1515.8  
 3390 9.4 115046.8 -1558.4  
 3391 9.5 115047.0 -1504.3  
 3392 10. 115105.4 -1524.1  
 3393 9.8 115119.8 -1501.3  
 3394 9.8 115121.0 -1507.5  
 3395 10. 115128.3 -1516.4

3396 8.2 115200.8 -1514.4  
 3397 9.8 115202.3 -1527.2  
 3398 9.5 115236.9 -1503.7  
 3399 7.8 115245.1 -1546.4  
 3400 8.2 115251.3 -1551.6  
 3401 9.5 115256.1 -1545.5  
 3402 8.9 115316.3 -1503.0  
 3403 9.3 115330.2 -1518.1  
 3404 9.6 115346.5 -1539.2  
 3405 8.0 115541.0 -1538.5

3406 9.5 115552.9 -1555.7  
 3407 9.7 115616.9 -1549.7  
 3408 9.6 115628.9 -1547.9  
 3409 8.8 115715.3 -1554.1  
 3410 9.6 115731.8 -1540.4  
 3411 9.1 115733.8 -1529.1  
 3412 9.1 115736.7 -1535.2  
 3413 9.4 115738.6 -1528.2  
 3414 9.5 115804.2 -1513.3  
 3415 8.7 115817.4 -1543.0

3416 9.6 115828.3 -1535.0  
 3417 9.4 115900.4 -1514.0  
 3418 9.4 115905.5 -1507.2  
 3419 9.1 120030.6 -1511.3  
 3420 9.3 120052.1 -1532.2  
 3421 9.4 120115.9 -1516.2  
 3422 9.5 120147.5 -1521.1  
 3423 9.5 120218.9 -1508.5  
 3424 9.9 120233.0 -1503.5  
 3425 8.3 120236.0 -1542.1

3426 9.2 120300.9 -1534.0  
 3427 9.0 120303.2 -1549.2  
 3428 9.4 120337.4 -1519.4  
 3429 7.3 120356.7 -1558.8  
 3430 9.7 120357.1 -1527.6  
 3431 9.6 120404.1 -1557.0  
 3432 9.2 120529.3 -1526.3  
 3433 9.0 120536.2 -1548.1  
 3434 9.4 120622.4 -1507.2  
 3435 8.0 120623.5 -1509.9

3436 8.3 120659.8 -1516.8  
 3437 9.1 120744.3 -1507.2  
 3438 9.6 120754.3 -1511.2  
 3439 9.9 120836.0 -1543.0  
 3440 9.2 120855.0 -1507.5  
 3441 9.4 120933.3 -1501.6  
 3442 6.7 120934.5 -1553.1  
 3443 9.8 120952.0 -1549.5  
 3444 9.2 121009.9 -1552.3  
 3445 9.7 121030.6 -1555.5

3446 9.3 121035.4 -1555.9  
 3447 9.8 121051.1 -1547.5  
 3448 10. 121051.4 -1539.0  
 3449 8.8 121055.7 -1500.3  
 3450 7.4 121149.6 -1528.1  
 3451 9.7 121152.3 -1552.3  
 3452 8.0 121324.9 -1500.3  
 3453 9.4 121329.0 -1520.6  
 3454 9.7 121335.2 -1542.2  
 3455 9.9 121423.0 -1540.5

3456 9.4 121457.1 -1548.8  
 3457 9.7 121510.4 -1535.2  
 3458 9.0 121537.8 -1501.2  
 3459 8.7 121605.0 -1552.5  
 3460 9.6 121619.6 -1547.6  
 3461 9.7 121624.6 -1549.2  
 3462 9.2 121649.5 -1508.3  
 3463 9.4 121717.4 -1553.0  
 3464 9.2 121740.5 -1511.3  
 3465 9.8 121749.8 -1532.2

3466 9.5 121817.8 -1530.6  
 3467 9.8 121830.7 -1546.1  
 3468 9.5 121926.3 -1535.2  
 3469 9.5 121941.8 -1555.1  
 3470 10. 122008.7 -1522.7  
 3471 6.8 122016.9 -1549.5  
 3472 9.4 122017.4 -1530.8  
 3473 9.4 122029.2 -1523.2  
 3474 9.5 122036.4 -1551.2  
 3475 7.8 122106.4 -1511.8

3476 8.3 122132.9 -1535.3  
 3477 9.4 122152.7 -1525.5  
 3478 9.4 122156.3 -1521.1  
 3479 9.8 122216.4 -1505.5  
 3480 9.3 122219.6 -1559.8  
 3481 9.0 122220.9 -1543.1  
 3482 3.0 122221.4 -1542.1  
 3483 9.5 122230.1 -1521.1  
 3484 9.1 122235.3 -1550.7  
 3485 8.5 122328.5 -1540.6

3486 9.2 122359.0 -1502.2  
 3487 9.3 122404.6 -1556.8  
 3488 9.4 122434.7 -1551.7  
 3489 5.0 122436.7 -1523.4  
 3490 9.5 122437.8 -1508.9  
 3491 9.4 122454.2 -1551.3  
 3492 9.7 122458.6 -1554.2  
 3493 9.7 122509.3 -1504.1  
 3494 9.4 122514.9 -1538.3  
 3495 9.6 122515.7 -1546.3

3496 9.4 122517.3 -1552.6  
 3497 8.0 122521.7 -1551.0  
 3498 7.8 122704.4 -1533.1  
 3499 9.7 122706.9 -1505.6  
 3500 9.2 122719.9 -1559.7  
 3501 9.0 122759.0 -1516.8  
 3502 8.9 122805.2 -1544.4  
 3503 9.6 122845.9 -1516.6  
 3504 8.5 122859.7 -1535.0  
 3505 10. 122917.7 -1544.2

3506 8.8 122922.2 -1557.4  
 3507 9.6 123002.4 -1526.0  
 3508 9.8 123047.5 -1511.2  
 3509 9.4 123101.6 -1506.4  
 3510 9.5 123138.2 -1501.7  
 3511 9.0 123148.6 -1521.0  
 3512 9.4 123243.0 -1512.1  
 3513 8.3 123307.7 -1521.0  
 3514 9.3 123316.8 -1532.7  
 3515 9.3 123349.5 -1548.6

3516 9.6 123407.1 -1550.7  
 3517 9.4 123416.0 -1500.8  
 3518 9.1 123543.1 -1543.2  
 3519 10. 123555.1 -1545.3  
 3520 9.8 123600.7 -1529.9  
 3521 9.4 123602.0 -1557.3  
 3522 10. 123638.7 -1536.6  
 3523 9.0 123655.6 -1541.1  
 3524 9.8 123722.6 -1548.2  
 3525 7.8 123726.6 -1514.8

3526 10. 123734.8 -1537.2  
 3527 9.4 123819.9 -1538.5  
 3528 9.1 123839.1 -1556.4  
 3529 9.4 123843.4 -1504.1  
 3530 9.1 123851.0 -1544.5  
 3531 8.7 123900.5 -1543.9  
 3532 10. 123903.4 -1527.6  
 3533 9.9 123925.7 -1553.7  
 3534 9.5 124010.6 -1558.6  
 3535 9.8 124028.5 -1511.1

3536 9.8 124032.6 -1539.6  
 3537 9.5 124101.1 -1557.2  
 3538 9.5 124117.5 -1510.8  
 3539 9.6 124124.5 -1540.3  
 3540 9.0 124136.7 -1524.2  
 3541 9.6 124141.9 -1526.7  
 3542 9.6 124142.9 -1516.0  
 3543 6.5 124209.3 -1505.1  
 3544 9.9 124219.5 -1538.0  
 3545 9.4 124243.1 -1512.4

3546 10. 124258.8 -1522.9  
 3547 9.5 124352.7 -1522.3  
 3548 9.3 124503.2 -1521.4  
 3549 9.4 124516.9 -1540.7  
 3550 9.5 124530.0 -1512.5  
 3551 8.3 124534.0 -1548.2  
 3552 10. 124640.0 -1504.5  
 3553 9.8 124659.3 -1516.5  
 3554 7.7 124706.4 -1529.4  
 3555 9.6 124755.4 -1557.1

3556 9.2 124844.3 -1559.8  
 3557 9.7 124848.6 -1547.1  
 3558 8.7 124859.8 -1556.4  
 3559 9.3 124907.5 -1502.2  
 3560 9.9 124914.9 -1533.3  
 3561 9.5 125003.8 -1538.0  
 3562 9.3 125024.5 -1551.6  
 3563 8.5 125031.8 -1559.2  
 3564 9.8 125033.7 -1545.1  
 3565 9.5 125051.2 -1505.7

3566 10. 125130.2 -1525.1  
 3567 9.5 125137.3 -1559.1  
 3568 8.3 125147.1 -1544.8  
 3569 9.8 125155.6 -1503.4  
 3570 9.7 125208.4 -1518.3  
 3571 9.9 125217.2 -1506.4  
 3572 9.3 125221.1 -1527.4  
 3573 8.8 125224.6 -1509.9  
 3574 9.1 125227.6 -1526.6  
 3575 9.7 125238.2 -1558.7

3576 9.7 125253.5 -1549.2  
 3577 9.2 125315.9 -1500.5  
 3578 8.7 125337.9 -1500.9  
 3579 9.3 125357.5 -1512.5  
 3580 8.5 125405.3 -1547.9  
 3581 10. 125406.0 -1510.5  
 3582 10. 125442.9 -1549.4  
 3583 9.3 125450.4 -1525.3  
 3584 9.2 125504.4 -1514.5  
 3585 9.8 125505.8 -1525.5

3586 9.9 125528.7 -1537.6  
 3587 9.4 125533.2 -1516.2  
 3588 9.0 125541.7 -1529.8  
 3589 8.0 125600.0 -1533.1  
 3590 9.3 125616.6 -1559.1  
 3591 9.5 125641.4 -1552.5  
 3592 9.5 125658.0 -1505.2  
 3593 9.4 125744.5 -1504.8  
 3594 9.5 125744.5 -1518.9  
 3595 9.3 125747.5 -1512.1

3596 9.0 125800.9 -1504.2  
 3597 9.7 125858.8 -1540.1  
 3598 9.5 125958.0 -1503.0  
 3599 9.3 130025.6 -1553.9  
 3600 9.0 130059.1 -1523.8  
 3601 9.5 130101.5 -1518.5  
 3602 9.6 130103.8 -1512.5  
 3603 9.5 130113.6 -1522.9  
 3604 10. 130118.8 -1551.8  
 3605 9.1 130126.0 -1559.0

3606 9.6 130142.3 -1546.0  
 3607 9.5 130156.9 -1505.6  
 3608 6.8 130200.3 -1544.0  
 3609 8.5 130253.1 -1513.5  
 3610 10. 130259.7 -1549.8  
 3611 9.1 130410.2 -1544.5  
 3612 9.5 130410.6 -1515.4  
 3613 5.7 130420.8 -1524.9  
 3614 9.5 130421.9 -1514.1  
 3615 9.0 130430.8 -1505.3

3616 10. 130447.9 -1558.6  
 3617 9.9 130504.0 -1532.7  
 3618 9.4 130525.7 -1528.0  
 3619 10. 130532.1 -1548.7  
 3620 9.7 130535.3 -1513.8  
 3621 8.5 130625.6 -1546.7  
 3622 9.2 130704.2 -1545.1  
 3623 9.5 130712.3 -1541.6  
 3624 9.8 130715.3 -1514.9  
 3625 9.1 130723.0 -1528.8

3626 10. 130744.1 -1544.5  
 3627 9.4 130751.4 -1555.9  
 3628 8.6 130805.8 -1530.4  
 3629 10. 130831.8 -1554.1  
 3630 6.4 130832.5 -1516.6  
 3631 9.8 130834.0 -1527.3  
 3632 9.8 130846.6 -1544.0  
 3633 9.3 130854.7 -1559.9  
 3634 9.8 130920.6 -1503.6  
 3635 9.8 130923.3 -1535.4

3636 9.7 130958.3 -1525.7  
 3637 9.5 131015.6 -1511.5  
 3638 9.4 131044.9 -1546.3  
 3639 9.8 131049.2 -1503.8  
 3640 10. 131051.6 -1530.0  
 3641 10. 131135.2 -1537.0  
 3642 9.5 131152.5 -1547.7  
 3643 9.0 131230.9 -1527.8  
 3644 9.0 131241.7 -1556.4  
 3645 9.6 131254.1 -1539.2

3646 9.3 131256.4 -1512.7  
 3647 9.3 131257.1 -1537.9  
 3648 10. 131312.2 -1557.5  
 3649 9.8 131325.9 -1517.0  
 3650 9.6 131338.9 -1550.4  
 3651 9.3 131340.0 -1510.3  
 3652 9.7 131340.7 -1511.8  
 3653 9.1 131408.0 -1508.5  
 3654 9.4 131423.2 -1554.7  
 3655 9.4 131428.8 -1524.2

3656 8.3 131523.4 -1510.0  
 3657 9.8 131554.1 -1534.3  
 3658 9.8 131605.3 -1545.8  
 3659 9.8 131715.4 -1542.0  
 3660 9.0 131725.1 -1525.3  
 3661 9.1 131735.1 -1551.5  
 3662 9.1 131751.2 -1549.3  
 3663 9.2 131805.3 -1540.2  
 3664 8.5 131834.6 -1555.0  
 3665 9.1 131839.4 -1504.9

3666 9.0 131853.1 -1521.2  
 3667 10. 131922.4 -1543.1  
 3668 5.5 131943.2 -1513.1  
 3669 9.6 131948.7 -1551.2  
 3670 10. 132003.0 -1536.9  
 3671 9.5 132015.3 -1528.1  
 3672 9.4 132020.5 -1511.1  
 3673 9.2 132035.8 -1505.2  
 3674 9.3 132112.3 -1506.3  
 3675 9.4 132119.8 -1541.6

3676 9.3 132154.1 -1548.9  
 3677 9.9 132158.3 -1540.5  
 3678 10. 132201.5 -1526.6  
 3679 9.8 132212.9 -1528.4  
 3680 7.8 132255.9 -1528.2  
 3681 9.1 132316.6 -1525.3  
 3682 8.1 132318.9 -1536.1  
 3683 9.4 132350.7 -1513.7  
 3684 9.5 132410.5 -1517.9  
 3685 9.8 132414.1 -1513.9

3686 9.8 132427.4 -1518.8  
 3687 9.9 132428.1 -1545.2  
 3688 10. 132437.6 -1542.5  
 3689 9.3 132439.0 -1549.1  
 3690 9.6 132442.6 -1524.7  
 3691 9.2 132448.2 -1550.2  
 3692 8.7 132448.3 -1548.6  
 3693 9.8 132520.4 -1523.4  
 3694 8.5 132623.2 -1538.2  
 3695 8.7 132653.8 -1534.4



3696 8.9 132654.4 -1559.6  
 3697 9.1 132655.7 -1505.7  
 3698 10. 132707.1 -1543.5  
 3699 9.5 132715.3 -1511.8  
 3700 9.4 132735.5 -1546.9  
 3701 9.4 132749.6 -1535.3  
 3702 9.8 132757.4 -1547.1  
 3703 10. 132815.1 -1540.4  
 3704 9.3 132837.7 -1557.8  
 3705 7.8 132916.3 -1541.7

3706 10. 132931.1 -1502.5  
 3707 9.6 132958.8 -1512.5  
 3708 9.0 133013.6 -1558.2  
 3709 9.1 133054.6 -1537.5  
 3710 9.8 133056.0 -1530.8  
 3711 9.3 133148.0 -1508.2  
 3712 9.0 133148.4 -1543.7  
 3713 9.0 133153.1 -1555.4  
 3714 9.1 133200.2 -1524.1  
 3715 6.5 133210.4 -1542.4

3716 9.1 133212.3 -1521.0  
 3717 9.3 133226.4 -1510.3  
 3718 8.6 133300.4 -1510.9  
 3719 9.7 133344.9 -1526.2  
 3720 8.4 133353.5 -1526.3  
 3721 10. 133353.9 -1548.0  
 3722 10. 133354.1 -1552.0  
 3723 8.8 133414.3 -1511.4  
 3724 9.8 133502.6 -1524.3  
 3725 8.8 133505.8 -1530.0

3726 9.5 133518.6 -1523.6  
 3727 9.1 133542.5 -1546.0  
 3728 8.6 133559.7 -1514.9  
 3729 8.8 133620.7 -1546.0  
 3730 10. 133622.9 -1527.0  
 3731 5.6 133641.0 -1526.8  
 3732 9.0 133641.6 -1541.7  
 3733 9.6 133711.2 -1552.0  
 3734 8.5 133723.7 -1511.6  
 3735 6.7 133746.4 -1502.0

3736 9.8 133753.8 -1544.9  
 3737 10. 133804.2 -1542.9  
 3738 9.2 133849.0 -1557.5  
 3739 7.8 134009.5 -1520.3  
 3740 9.8 134033.1 -1517.9  
 3741 9.3 134124.0 -1522.9  
 3742 9.0 134135.0 -1555.5  
 3743 9.6 134148.9 -1555.1  
 3744 9.3 134151.9 -1537.5  
 3745 9.7 134233.7 -1547.6

3746 9.7 134308.7 -1527.0  
 3747 10. 134319.4 -1539.1  
 3748 9.5 134321.6 -1511.0  
 3749 10. 134347.8 -1543.4  
 3750 9.8 134356.8 -1539.9  
 3751 9.7 134427.4 -1544.2  
 3752 9.7 134421.1 -1543.9  
 3753 9.8 134437.5 -1504.3  
 3754 9.5 134440.0 -1526.3  
 3755 8.6 134446.3 -1526.9

3756 7.8 134523.7 -1516.3  
 3757 9.7 134527.5 -1535.2  
 3758 9.2 134536.8 -1538.3  
 3759 9.6 134540.1 -1505.5  
 3760 10. 134550.6 -1549.7  
 3761 9.1 134554.5 -1513.6  
 3762 8.4 134600.6 -1504.3  
 3763 9.6 134610.5 -1549.1  
 3764 9.0 134612.0 -1551.9  
 3765 9.5 134633.9 -1511.8

3766 9.8 134654.7 -1529.0  
 3767 9.7 134704.2 -1536.1  
 3768 9.1 134713.6 -1548.9  
 3769 9.2 134729.5 -1510.0  
 3770 8.0 134745.3 -1526.1  
 3771 8.5 134753.3 -1520.7  
 3772 9.3 134800.1 -1541.6  
 3773 9.5 134830.9 -1549.6  
 3774 9.0 134837.5 -1529.2  
 3775 9.8 134900.2 -1558.3

3776 9.8 134933.2 -1524.9  
 3777 8.3 134952.4 -1511.3  
 3778 9.7 135038.1 -1532.2  
 3779 9.4 135048.0 -1502.0  
 3780 10. 135056.3 -1534.6  
 3781 8.3 135056.9 -1512.2  
 3782 9.8 135131.2 -1525.2  
 3783 9.8 135200.6 -1526.3  
 3784 9.4 135205.1 -1532.3  
 3785 8.6 135258.2 -1537.4

3786 10. 135303.7 -1518.7  
 3787 9.8 135336.3 -1532.7  
 3788 9.6 135348.0 -1543.2  
 3789 9.4 135436.4 -1545.0  
 3790 10. 135440.9 -1507.6  
 3791 9.1 135442.0 -1540.7  
 3792 9.0 135443.6 -1511.2  
 3793 9.5 135525.4 -1546.5  
 3794 10. 135613.0 -1540.5  
 3795 9.0 135623.5 -1521.1

3796 9.4 135641.2 -1534.2  
 3797 9.5 135644.7 -1557.2  
 3798 9.5 135645.8 -1506.2  
 3799 9.3 135649.9 -1514.0  
 3800 9.8 135652.7 -1511.3  
 3801 10. 135656.7 -1532.1  
 3802 9.5 135659.4 -1558.5  
 3803 9.8 135714.3 -1555.6  
 3804 8.0 135716.5 -1519.7  
 3805 6.8 135720.4 -1538.1

3806 10. 135730.8 -1544.6  
 3807 9.8 135800.1 -1518.1  
 3808 9.5 135833.4 -1531.2  
 3809 7.5 135920.9 -1529.5  
 3810 9.5 135949.2 -1505.3  
 3811 9.8 140008.1 -1533.0  
 3812 8.7 140027.0 -1552.4  
 3813 9.8 140049.8 -1550.5  
 3814 9.5 140140.3 -1531.2  
 3815 9.5 140158.6 -1548.0

3816 9.2 140215.1 -1513.0  
 3817 5.0 140255.2 -1536.4  
 3818 9.5 140311.6 -1514.1  
 3819 9.9 140313.8 -1540.0  
 3820 10. 140357.8 -1502.9  
 3821 9.8 140419.1 -1548.8  
 3822 9.4 140424.8 -1528.8  
 3823 10. 140431.5 -1515.7  
 3824 8.9 140439.0 -1511.4  
 3825 9.3 140440.5 -1558.7

3826 8.5 140503.1 -1522.0  
 3827 9.1 140530.4 -1540.6  
 3828 9.9 140535.2 -1542.0  
 3829 9.8 140547.0 -1512.5  
 3830 10. 140601.5 -1547.7  
 3831 9.0 140611.6 -1548.5  
 3832 9.5 140625.7 -1527.5  
 3833 9.2 140647.0 -1518.6  
 3834 9.6 140659.5 -1529.2  
 3835 9.8 140729.4 -1513.8

3836 9.0 140743.0 -1552.8  
 3837 7.7 140754.9 -1524.6  
 3838 8.8 140849.7 -1522.4  
 3839 8.5 140903.5 -1545.8  
 3840 9.7 140907.3 -1557.2  
 3841 9.1 140910.1 -1504.2  
 3842 8.5 140953.4 -1520.9  
 3843 10. 141103.8 -1538.8  
 3844 8.8 141108.3 -1535.0  
 3845 9.5 141109.8 -1515.0

3846 9.0 141111.9 -1504.6  
 3847 9.0 141115.4 -1554.1  
 3848 9.6 141125.5 -1532.5  
 3849 9.7 141134.4 -1546.8  
 3850 10. 141134.7 -1505.2  
 3851 9.5 141158.8 -1515.2  
 3852 9.8 141204.6 -1511.5  
 3853 10. 141246.5 -1540.2  
 3854 9.4 141250.8 -1520.5  
 3855 9.5 141313.3 -1534.3

3856 9.8 141315.2 -1556.1  
 3857 10. 141320.5 -1539.7  
 3858 8.9 141338.1 -1555.0  
 3859 9.1 141438.6 -1577.1  
 3860 10. 141530.5 -1533.5  
 3861 9.1 141551.9 -1518.5  
 3862 6.7 141600.1 -1526.1  
 3863 9.5 141623.9 -1528.2  
 3864 9.1 141638.2 -1550.6  
 3865 9.9 141658.0 -1525.2

3866 9.7 141737.4 -1536.1  
 3867 10. 141737.3 -1545.1  
 3868 9.6 141750.5 -1507.2  
 3869 8.0 141758.3 -1538.3  
 3870 9.7 141817.8 -1539.9  
 3871 9.5 141856.4 -1507.4  
 3872 10. 141910.8 -1535.0  
 3873 9.9 141911.0 -1500.6  
 3874 9.1 141923.1 -1553.0  
 3875 7.7 141927.9 -1509.4

3876 9.4 141956.3 -1547.0  
 3877 8.9 142015.1 -1527.7  
 3878 8.5 142030.2 -1539.4  
 3879 9.8 142037.7 -1543.5  
 3880 9.9 142047.2 -1545.2  
 3881 9.8 142228.3 -1513.4  
 3882 8.8 142249.1 -1544.1  
 3883 9.8 142255.6 -1500.1  
 3884 9.5 142256.3 -1521.3  
 3885 10. 142300.1 -1541.9

3886 10. 142320.6 -1559.8  
 3887 9.2 142341.8 -1535.9  
 3888 9.5 142341.9 -1502.8  
 3889 9.1 142345.1 -1554.0  
 3890 9.7 142345.3 -1529.0  
 3891 9.4 142357.8 -1520.9  
 3892 7.0 142358.8 -1543.0  
 3893 8.7 142450.5 -1540.8  
 3894 9.2 142451.4 -1549.5  
 3895 9.8 142453.3 -1531.1

3896 9.3 142504.7 -1518.9  
 3897 8.9 142535.5 -1544.9  
 3898 9.0 142553.7 -1503.5  
 3899 10. 142612.4 -1517.7  
 3900 9.8 142617.5 -1548.0  
 3901 9.5 142638.3 -1520.4  
 3902 9.9 142703.8 -1559.0  
 3903 9.3 142709.9 -1549.0  
 3904 9.5 142710.7 -1531.0  
 3905 10. 142717.0 -1542.7

3906 9.2 142839.9 -1548.1  
 3907 9.8 142900.3 -1507.5  
 3908 10. 142916.0 -1539.2  
 3909 9.9 142920.9 -1544.3  
 3910 10. 142932.9 -1544.6  
 3911 8.2 142933.0 -1554.4  
 3912 10. 142943.8 -1515.4  
 3913 9.5 143022.3 -1516.1  
 3914 8.7 143024.2 -1555.0  
 3915 9.2 143038.6 -1552.9

3916 9.8 143048.0 -1537.4  
 3917 9.8 143056.9 -1542.6  
 3918 9.7 143102.0 -1538.9  
 3919 10. 143114.4 -1543.6  
 3920 8.2 143137.7 -1557.7  
 3921 9.5 143141.3 -1523.8  
 3922 7.3 143207.7 -1534.2  
 3923 9.8 143230.2 -1551.1  
 3924 7.3 143231.0 -1534.9  
 3925 9.4 143243.2 -1516.1

3926 9.9 143245.6 -1530.3  
 3927 8.9 143303.2 -1514.5  
 3928 9.8 143335.1 -1520.1  
 3929 9.8 143340.1 -1516.6  
 3930 8.5 143344.6 -1558.4  
 3931 10. 143345.1 -1518.5  
 3932 9.4 143358.2 -1525.0  
 3933 9.8 143404.7 -1550.1  
 3934 9.3 143413.2 -1516.0  
 3935 8.3 143424.0 -1558.8

3936 9.3 143425.3 -1535.1  
 3937 9.4 143433.7 -1513.6  
 3938 9.9 143511.6 -1524.4  
 3939 10. 143532.7 -1502.6  
 3940 9.4 143555.5 -1515.2  
 3941 8.7 143613.1 -1506.4  
 3942 9.6 143659.6 -1534.2  
 3943 9.9 143730.0 -1550.1  
 3944 9.5 143750.1 -1549.2  
 3945 9.1 143800.7 -1507.5

3946 10. 143811.4 -1556.1  
 3947 9.8 143825.1 -1524.0  
 3948 9.5 143842.5 -1513.8  
 3949 8.8 143859.5 -1551.9  
 3950 9.5 143900.7 -1503.3  
 3951 10. 143935.0 -1515.3  
 3952 9.8 143940.0 -1506.4  
 3953 10. 143946.1 -1502.2  
 3954 9.9 143954.5 -1521.0  
 3955 9.6 144008.5 -1521.0

3956 9.8 144009.6 -1544.5  
 3957 9.3 144028.5 -1545.5  
 3958 9.5 144039.0 -1508.5  
 3959 9.3 144048.0 -1507.4  
 3960 9.8 144050.7 -1515.8  
 3961 10. 144055.8 -1515.7  
 3962 9.0 144115.3 -1557.1  
 3963 9.0 144200.5 -1530.0  
 3964 8.4 144205.5 -1547.8  
 3965 5.3 144239.9 -1523.3

3966 3.0 144251.8 -1526.1  
 3967 9.8 144304.0 -1506.7  
 3968 9.5 144320.4 -1508.7  
 3969 10. 144328.6 -1526.3  
 3970 9.6 144338.7 -1535.1  
 3971 9.8 144342.9 -1507.0  
 3972 9.3 144352.0 -1558.7  
 3973 9.4 144354.1 -1509.1  
 3974 9.5 144357.6 -1512.0  
 3975 9.5 144432.9 -1552.1

3976 8.2 144435.4 -1547.9  
 3977 9.9 144505.4 -1513.0  
 3978 8.3 144536.8 -1554.7  
 3979 9.5 144559.0 -1528.1  
 3980 9.6 144612.2 -1558.4  
 3981 8.2 144629.6 -1547.8  
 3982 9.3 144639.8 -1551.0  
 3983 8.7 144641.1 -1556.0  
 3984 9.9 144724.3 -1525.3  
 3985 9.8 144751.8 -1519.3

3986 8.0 144800.6 -1503.9  
 3987 9.2 144801.7 -1548.9  
 3988 9.0 144840.4 -1502.8  
 3989 8.2 144854.8 -1543.1  
 3990 8.2 144902.1 -1555.7  
 3991 9.2 144909.3 -1520.6  
 3992 9.5 144929.6 -1556.5  
 3993 8.7 144934.2 -1549.4  
 3994 9.8 144937.5 -1529.1  
 3995 10. 144946.1 -1553.2

3996 9.0 144950.3 -1523.1  
 3997 9.0 145009.4 -1553.8  
 3998 9.4 145009.7 -1533.0  
 3999 9.8 145027.5 -1526.2  
 4000 9.8 145044.7 -1547.1  
 4001 9.0 145045.6 -1552.0  
 4002 9.7 145110.7 -1517.3  
 4003 10. 145131.7 -1503.3  
 4004 10. 145134.6 -1559.0  
 4005 8.8 145145.7 -1512.4

4006 9.8 145207.3 -1537.2  
 4007 9.1 145215.0 -1557.7  
 4008 8.5 145230.1 -1521.2  
 4009 9.5 145238.6 -1526.1  
 4010 9.5 145413.1 -1516.1  
 4011 9.2 145449.1 -1526.1  
 4012 9.3 145451.7 -1509.8  
 4013 9.3 145456.0 -1500.7  
 4014 9.9 145456.1 -1516.8  
 4015 9.5 145527.1 -1545.0

4016 9.1 145535.2 -1502.5  
 4017 9.0 145539.6 -1546.5  
 4018 9.7 145602.5 -1558.8  
 4019 10. 145634.1 -1503.0  
 4020 9.9 145636.6 -1512.5  
 4021 9.0 145722.0 -1515.6  
 4022 9.3 145733.5 -1511.7  
 4023 9.3 145748.7 -1532.3  
 4024 9.5 145804.0 -1531.1  
 4025 9.1 145829.6 -1546.7

4026 5.3 145832.1 -1541.3  
 4027 9.1 145838.5 -1534.8  
 4028 6.8 145843.3 -1555.0  
 4029 9.3 145853.0 -1531.2  
 4030 9.4 145857.3 -1529.2  
 4031 9.8 145903.5 -1511.9  
 4032 9.0 145923.6 -1550.9  
 4033 9.8 145928.4 -1513.3  
 4034 9.8 150029.1 -1544.7  
 4035 9.4 150030.2 -1507.6

4036 9.8 150109.0 -1508.2  
 4037 10. 150143.0 -1559.1  
 4038 8.3 150149.2 -1509.3  
 4039 9.3 150158.6 -1537.0  
 4040 9.3 150213.5 -1542.0  
 4041 9.2 150215.5 -1547.5  
 4042 9.0 150216.0 -1542.2  
 4043 9.4 150234.2 -1530.4  
 4044 8.8 150302.5 -1543.6  
 4045 10. 150315.0 -1540.5

4046 9.8 150320.8 -1529.3  
 4047 6.5 150343.8 -1536.6  
 4048 7.2 150413.5 -1551.7  
 4049 9.7 150419.0 -1534.7  
 4050 7.8 150421.4 -1509.8  
 4051 9.6 150514.0 -1542.5  
 4052 9.2 150515.9 -1505.0  
 4053 9.7 150516.7 -1557.9  
 4054 10. 150539.8 -1505.0  
 4055 9.5 150542.8 -1522.4



-15 4056 15h05m

4056 9.4 150555.7 -1521.0  
4057 9.3 150612.3 -1512.5  
4058 9.5 150617.2 -1530.2  
4059 8.5 150621.8 -1528.0  
4060 8.8 150626.9 -1552.6  
4061 9.3 150645.0 -1539.7  
4062 9.3 150700.2 -1517.0  
4063 9.8 150707.4 -1502.8  
4064 9.4 150720.0 -1540.5  
4065 9.5 150747.3 -1508.0  
  
4066 9.4 150813.9 -1542.7  
4067 9.1 150822.4 -1503.1  
4068 9.1 150828.8 -1558.5  
4069 9.3 150839.9 -1511.5  
4070 10. 150842.6 -1559.9  
4071 8.3 150856.3 -1502.1  
4072 10. 150945.7 -1539.6  
4073 9.5 151012.8 -1550.4  
4074 9.9 151016.0 -1537.5  
4075 9.3 151023.2 -1505.5  
  
4376 9.4 151051.3 -1545.1  
4377 9.7 151053.6 -1550.0  
4078 10. 151054.8 -1537.5  
4779 9.4 151102.3 -1535.8  
4180 9.3 151147.5 -1545.9  
4081 10. 151218.2 -1509.0  
4092 8.5 151234.2 -1553.8  
4093 6.0 151255.2 -1501.3  
4094 10. 151256.6 -1542.0  
4095 8.5 151256.8 -1526.4  
  
4086 9.5 151316.7 -1501.3  
4087 9.6 151332.0 -1548.1  
4088 10. 151350.1 -1510.1  
4089 8.5 151431.8 -1532.2  
4090 9.5 151438.7 -1548.8  
4091 10. 151438.8 -1532.7  
4092 9.6 151439.6 -1524.6  
4093 9.3 151441.5 -1521.3  
4094 9.8 151508.8 -1529.8  
4095 9.5 151522.3 -1548.8  
  
4096 9.0 151527.5 -1539.9  
4097 10. 151538.0 -1556.5  
4098 8.8 151610.6 -1534.9  
4099 9.4 151634.2 -1545.0  
4100 9.8 151648.3 -1527.4  
4101 9.3 151708.5 -1533.1  
4102 10. 151713.8 -1526.1  
4103 9.1 151728.4 -1512.5  
4104 9.0 151827.5 -1544.5  
4105 9.0 151840.6 -1555.8  
  
4106 9.3 151849.0 -1559.8  
4107 11.4 151853.9 -1515.8  
4108 9.4 151903.5 -1540.4  
4109 9.4 151912.1 -1547.5  
4110 10. 151919.4 -1527.2  
4111 9.8 151920.8 -1500.4  
4112 8.2 151928.1 -1558.6  
4113 9.5 151930.2 -1527.6  
4114 9.8 151951.0 -1514.1  
4115 9.5 151956.5 -1503.2  
  
4116 9.6 152007.6 -1555.7  
4117 9.5 152010.4 -1514.2  
4118 6.9 152031.4 -1511.4  
4119 9.2 152037.9 -1506.8  
4120 9.5 152057.6 -1543.1  
4121 9.3 152103.0 -1523.1  
4122 9.2 152105.6 -1553.4  
4123 9.7 152115.2 -1502.5  
4124 9.3 152120.9 -1533.4  
4125 9.3 152129.6 -1502.3  
  
4126 9.5 152144.0 -1519.8  
4127 10. 152151.5 -1514.0  
4128 9.5 152152.7 -1527.4  
4129 9.6 152155.0 -1557.2  
4130 8.2 152206.6 -1511.1  
4131 9.5 152213.1 -1506.8  
4132 7.9 152256.7 -1520.7  
4133 9.1 152310.4 -1516.2  
4134 9.3 152334.1 -1548.3  
4135 9.3 152418.5 -1545.5  
  
4136 8.6 152430.9 -1507.1  
4137 9.7 152452.9 -1559.7  
4138 9.3 152538.8 -1520.8  
4139 9.3 152545.2 -1510.6  
4140 8.6 152608.4 -1543.0  
4141 9.0 152609.9 -1563.4  
4142 10. 152650.2 -1500.3  
4143 8.5 152746.3 -1529.3  
4144 8.0 152845.7 -1502.0  
4145 9.8 152919.9 -1537.3

4146 9.1 152920.7 -1515.5  
4147 9.2 152936.2 -1514.4  
4148 30.0 152940.0 -1541.5  
4149 9.5 152947.7 -1518.0  
4150 9.0 153008.7 -1510.4  
4151 9.6 153038.9 -1527.3  
4152 9.0 153041.2 -1502.0  
4153 9.5 153050.8 -1528.5  
4154 9.4 153058.3 -1538.9  
4155 10. 153143.7 -1536.5  
  
4156 10. 153205.8 -1523.6  
4157 9.3 153208.1 -1508.3  
4158 9.3 153219.0 -1500.7  
4159 9.0 153239.6 -1531.2  
4160 9.5 153245.5 -1547.3  
4161 8.8 153331.9 -1505.2  
4162 9.5 153336.7 -1552.8  
4163 8.8 153353.8 -1505.9  
4164 9.0 153403.3 -1555.1  
4165 7.3 153437.0 -1532.5  
  
4166 10. 153441.4 -1532.1  
4167 9.6 153455.1 -1524.4  
4168 9.3 153456.3 -1551.2  
4169 9.5 153503.8 -1519.9  
4170 9.4 153530.2 -1520.6  
4171 5.8 153555.4 -1512.4  
4172 9.4 153558.3 -1539.6  
4173 8.5 153600.4 -1526.0  
4174 9.1 153618.5 -1556.6  
4175 9.2 153634.3 -1509.7  
  
4176 9.1 153655.3 -1519.3  
4177 9.5 153657.3 -1512.0  
4178 9.5 153706.6 -1505.5  
4179 9.4 153730.6 -1509.4  
4180 9.7 153734.0 -1501.9  
4181 9.6 153742.7 -1557.9  
4182 8.0 153813.5 -1542.2  
4183 9.6 153837.2 -1511.5  
4184 9.5 153851.8 -1512.6  
4185 9.3 153904.7 -1538.9  
  
4186 8.9 153906.2 -1543.3  
4187 9.6 153907.8 -1514.3  
4188 9.8 153911.7 -1556.9  
4189 9.2 153945.8 -1520.2  
4190 9.2 153954.7 -1556.6  
4191 8.9 153958.9 -1525.7  
4192 9.0 154021.8 -1505.0  
4193 9.0 154025.3 -1518.2  
4194 9.4 154054.8 -1505.3  
4195 9.3 154108.1 -1538.5  
  
4196 9.3 154108.3 -1534.5  
4197 9.3 154146.2 -1531.6  
4198 9.3 154219.9 -1534.6  
4199 9.4 154231.5 -1547.3  
4200 9.0 154238.5 -1532.5  
4201 9.8 154243.3 -1522.7  
4202 9.4 154246.2 -1531.5  
4203 9.4 154335.2 -1528.8  
4204 9.9 154338.4 -1516.8  
4205 9.6 154357.5 -1529.5  
  
4206 9.5 154431.5 -1534.5  
4207 9.3 154506.7 -1518.1  
4208 30.0 154523.7 -1548.1  
4209 8.8 154600.6 -1513.8  
4210 9.8 154610.8 -1528.9  
4211 9.1 154647.0 -1555.7  
4212 9.4 154648.0 -1554.1  
4213 9.5 154704.7 -1500.0  
4214 9.1 154716.6 -1508.9  
4215 9.2 154747.1 -1525.5  
  
4216 9.5 154756.5 -1537.4  
4217 8.2 154831.6 -1524.6  
4218 9.3 154836.1 -1504.3  
4219 9.5 154841.4 -1534.9  
4220 9.3 154851.6 -1503.3  
4221 6.8 154852.3 -1535.9  
4222 9.3 154855.4 -1558.7  
4223 9.5 154859.6 -1514.1  
4224 9.5 154910.1 -1522.1  
4225 9.0 154939.1 -1522.7  
  
4226 8.3 155005.1 -1503.4  
4227 9.8 155048.1 -1504.3  
4228 8.0 155100.5 -1548.1  
4229 9.0 155202.9 -1544.6  
4230 8.5 155233.6 -1500.3  
4231 9.5 155250.0 -1517.3  
4232 8.9 155309.1 -1512.1  
4233 9.5 155347.3 -1546.2  
4234 9.4 155359.3 -1526.2  
4235 10. 155405.6 -1517.1

4236 9.1 155425.6 -1503.9  
4237 9.5 155442.4 -1535.9  
4238 9.6 155450.9 -1556.7  
4239 9.4 155518.0 -1520.1  
4240 7.8 155518.9 -1559.4  
4241 9.5 155651.4 -1545.7  
4242 9.4 155707.0 -1522.7  
4243 8.5 155755.0 -1504.3  
4244 9.8 155815.8 -1531.2  
4245 9.4 155839.0 -1507.3  
  
4246 7.8 155839.3 -1544.7  
4247 9.2 155846.0 -1536.7  
4248 9.4 155912.9 -1510.6  
4249 9.2 155918.7 -1541.6  
4250 8.3 155928.4 -1514.8  
4251 8.8 155936.8 -1542.7  
4252 9.0 160078.2 -1541.9  
4253 9.1 160034.0 -1545.3  
4254 9.2 160036.1 -1504.7  
4255 9.0 160045.3 -1547.7  
  
4256 9.8 160057.8 -1543.9  
4257 9.9 160131.5 -1503.0  
4258 9.9 160146.1 -1508.7  
4259 9.8 160146.2 -1516.1  
4260 9.8 160201.0 -1502.0  
4261 9.5 160237.7 -1544.4  
4262 9.4 160320.2 -1556.9  
4263 9.4 160346.4 -1501.8  
4264 9.3 160409.6 -1533.5  
4265 9.3 160414.2 -1540.0  
  
4266 8.5 160436.1 -1538.4  
4267 9.5 160457.3 -1516.8  
4268 9.1 160510.6 -1543.5  
4269 8.6 160511.3 -1524.0  
4270 9.5 160513.7 -1514.3  
4271 9.0 160534.6 -1555.8  
4272 9.5 160605.1 -1551.2  
4273 9.3 160607.2 -1556.7  
4274 9.1 160613.1 -1520.0  
4275 9.3 160616.6 -1522.9  
  
4276 9.5 160634.8 -1517.7  
4277 9.3 160635.5 -1549.1  
4278 9.1 160656.9 -1502.9  
4279 9.0 160719.8 -1523.3  
4280 9.3 160722.1 -1526.8  
4281 9.5 160729.7 -1529.0  
4282 9.1 160731.3 -1504.3  
4283 7.8 160735.2 -1513.2  
4284 7.8 160739.7 -1531.2  
4285 9.1 160825.8 -1551.0  
  
4286 9.5 160833.1 -1559.9  
4287 9.1 160840.3 -1518.5  
4288 9.4 160843.6 -1558.4  
4289 9.5 160848.7 -1529.9  
4290 9.5 160859.0 -1551.6  
4291 9.0 160913.2 -1505.0  
4292 9.8 160931.1 -1528.3  
4293 9.1 160944.2 -1512.0  
4294 9.6 161028.5 -1549.1  
4295 9.4 161043.7 -1521.2  
  
4296 9.3 161046.3 -1529.2  
4297 9.4 161104.4 -1500.5  
4298 9.4 161107.6 -1558.0  
4299 9.1 161111.0 -1549.5  
4300 8.5 161111.2 -1511.7  
4301 9.2 161118.2 -1511.7  
4302 9.5 161156.3 -1535.1  
4303 9.8 161157.4 -1518.6  
4304 9.5 161158.0 -1556.9  
4305 9.7 161231.5 -1558.5  
  
4306 9.5 161237.2 -1521.5  
4307 9.8 161249.9 -1500.2  
4308 9.1 161303.1 -1559.4  
4309 9.6 161304.0 -1502.0  
4310 9.3 161308.4 -1557.3  
4311 9.8 161327.6 -1536.7  
4312 9.5 161346.2 -1501.0  
4313 9.6 161346.7 -1553.8  
4314 9.8 161403.0 -1543.4  
4315 9.8 161422.0 -1557.9  
  
4316 9.5 161451.6 -1528.0  
4317 9.5 161557.7 -1534.5  
4318 9.0 161613.6 -1526.2  
4319 8.8 161618.9 -1540.5  
4320 8.7 161700.9 -1550.7  
4321 8.5 161719.2 -1544.8  
4322 9.4 161815.3 -1541.6  
4323 9.3 161910.8 -1525.7  
4324 7.0 161959.8 -1552.7  
4325 8.8 162028.4 -1505.5

-15 4415 16h49m

4326 9.5 162040.3 -1544.6  
4327 9.0 162117.2 -1549.8  
4328 9.5 162132.9 -1524.9  
4329 9.8 162134.2 -1527.1  
4330 9.5 162145.2 -1539.0  
4331 9.5 162219.4 -1530.9  
4332 9.8 162310.8 -1544.5  
4333 9.7 162329.7 -1530.5  
4334 9.2 162346.7 -1527.8  
4335 7.5 162422.7 -1539.8  
  
4336 9.3 162447.8 -1512.2  
4337 9.2 162454.0 -1532.1  
4338 30.0 162526.8 -1549.2  
4339 9.6 162531.2 -1558.0  
4340 8.3 162548.2 -1513.0  
4341 9.7 162558.8 -1510.1  
4342 9.5 162559.5 -1504.2  
4343 9.5 162611.2 -1553.9  
4344 9.5 162648.6 -1550.0  
4345 9.3 162659.7 -1534.3  
  
4346 8.2 162705.5 -1557.2  
4347 9.6 162737.2 -1537.6  
4348 8.9 162745.1 -1507.4  
4349 9.0 162749.2 -1546.6  
4350 9.2 162810.7 -1549.1  
4351 9.4 162816.5 -1524.1  
4352 9.8 162835.2 -1513.2  
4353 9.6 162851.2 -1512.2  
4354 9.0 162853.2 -1518.6  
4355 9.8 162933.7 -1515.3  
  
4356 9.3 162937.0 -1518.7  
4357 9.6 162941.2 -1538.2  
4358 9.4 163001.7 -1543.3  
4359 9.5 163002.7 -1547.4  
4360 9.3 163036.3 -1516.5  
4361 9.4 163110.7 -1553.9  
4362 9.4 163134.1 -1541.8  
4363 10. 163149.8 -1525.3  
4364 9.4 163212.7 -1503.0  
4365 8.3 163216.7 -1522.4  
  
4366 9.0 163227.2 -1517.1  
4367 9.6 163238.1 -1556.9  
4368 9.5 163241.6 -1551.8  
4369 8.0 163242.2 -1504.5  
4370 9.5 163304.1 -1522.0  
4371 9.6 163306.6 -1546.1  
4372 9.5 163309.0 -1534.7  
4373 9.5 163334.1 -1539.5  
4374 9.5 163335.6 -1526.9  
4375 9.6 163340.8 -1527.4  
  
4376 9.6 163413.6 -1559.2  
4377 10. 163433.8 -1558.7  
4378 10. 163435.3 -1556.2  
4379 9.4 163506.6 -1552.0  
4380 9.4 163523.9 -1525.6  
4381 9.0 163541.7 -1502.1  
4382 9.2 163605.1 -1557.8  
4383 9.2 163633.6 -1513.8  
4384 9.4 163724.2 -1509.7  
4385 9.6 163728.1 -1559.9  
  
4386 9.8 163756.2 -1509.3  
4387 9.1 163757.7 -1514.0  
4388 9.2 163807.6 -1514.0  
4389 8.6 163856.8 -1524.9  
4390 9.0 163908.5 -1522.5  
4391 9.1 163922.8 -1527.5  
4392 7.3 163944.1 -1541.5  
4393 8.0 163959.6 -1505.8  
4394 9.4 164028.6 -1528.6  
4395 6.5 164111.0 -1524.4  
  
4396 9.3 164122.6 -1540.9  
4397 8.4 164147.8 -1510.6  
4398 9.5 164206.5 -1543.7  
4399 9.1 164237.0 -1551.5  
4400 9.5 164318.6 -1539.4  
4401 8.8 164357.6 -1538.0  
4402 9.5 164422.1 -1540.7  
4403 9.0 164423.0 -1553.4  
4404 8.9 164434.0 -1527.7  
4405 9.0 164436.4 -1557.2  
  
4406 9.4 164447.5 -1525.3  
4407 9.5 164552.1 -1509.3  
4408 9.0 164709.0 -1548.0  
4409 8.2 164800.5 -1507.3  
4410 8.2 164809.8 -1515.1  
4411 9.3 164810.0 -1544.2  
4412 8.6 164822.5 -1542.1  
4413 9.5 164829.3 -1516.4  
4414 9.0 164837.5 -1517.7  
4415 9.2 164905.4 -1541.5



|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|------|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 4416 | 10.  | 164913.6 | -1502.1 | 4506 | 9.5 | 170917.5 | -1519.2 | 4596 | 9.6 | 172612.5 | -1505.8 | 4686 | 9.8 | 174031.1 | -1519.5 |
| 4417 | 9.1  | 164924.9 | -1534.6 | 4507 | 9.0 | 170918.3 | -1521.9 | 4597 | 9.3 | 172623.4 | -1525.4 | 4687 | 9.9 | 174039.8 | -1525.6 |
| 4418 | 9.3  | 164927.8 | -1523.2 | 4508 | 9.6 | 170926.3 | -1513.9 | 4598 | 9.7 | 172629.0 | -1528.1 | 4688 | 9.7 | 174056.6 | -1527.8 |
| 4419 | 9.4  | 164927.9 | -1551.2 | 4509 | 9.2 | 170926.6 | -1535.4 | 4599 | 9.8 | 172643.4 | -1532.0 | 4689 | 9.3 | 174118.5 | -1523.6 |
| 4420 | 7.8  | 165040.1 | -1534.7 | 4510 | 9.0 | 170957.6 | -1535.4 | 4600 | 10. | 172644.6 | -1551.1 | 4690 | 9.8 | 174146.1 | -1541.2 |
| 4421 | 7.5  | 165104.0 | -1550.3 | 4511 | 7.5 | 170958.1 | -1537.8 | 4601 | 9.5 | 172659.1 | -1518.6 | 4691 | 9.1 | 174151.8 | -1508.9 |
| 4422 | 9.0  | 165111.9 | -1533.7 | 4512 | 8.5 | 171007.4 | -1502.4 | 4602 | 9.5 | 172706.6 | -1547.0 | 4692 | 10. | 174201.5 | -1535.0 |
| 4423 | 9.1  | 165142.4 | -1535.8 | 4513 | 7.5 | 171019.7 | -1552.0 | 4603 | 9.8 | 172713.3 | -1500.1 | 4693 | 8.0 | 174203.6 | -1555.3 |
| 4424 | 9.0  | 165143.2 | -1554.5 | 4514 | 7.5 | 171040.5 | -1503.4 | 4604 | 9.4 | 172718.0 | -1525.7 | 4694 | 9.3 | 174210.5 | -1523.4 |
| 4425 | 8.4  | 165229.1 | -1527.8 | 4515 | 9.0 | 171053.3 | -1545.3 | 4605 | 9.4 | 172726.7 | -1510.8 | 4695 | 9.5 | 174214.6 | -1547.2 |
|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4426 | 9.5  | 165236.1 | -1531.2 | 4516 | 9.0 | 171103.9 | -1511.5 | 4606 | 8.9 | 172729.6 | -1543.8 | 4696 | 9.5 | 174223.0 | -1521.1 |
| 4427 | 9.0  | 165240.9 | -1559.1 | 4517 | 9.2 | 171214.7 | -1518.1 | 4607 | 9.5 | 172730.2 | -1507.0 | 4697 | 9.5 | 174250.7 | -1513.5 |
| 4428 | 9.5  | 165327.9 | -1542.5 | 4518 | 9.5 | 171218.1 | -1554.1 | 4608 | 9.8 | 172734.3 | -1527.3 | 4698 | 9.8 | 174304.6 | -1516.8 |
| 4429 | 9.3  | 165345.9 | -1522.0 | 4519 | 9.1 | 171226.2 | -1546.3 | 4609 | 9.5 | 172738.1 | -1544.2 | 4699 | 8.7 | 174310.3 | -1526.5 |
| 4430 | 10.  | 165347.2 | -1512.5 | 4520 | 9.6 | 171245.8 | -1540.8 | 4610 | 9.2 | 172756.0 | -1525.3 | 4700 | 9.4 | 174319.5 | -1549.1 |
| 4431 | 9.2  | 165405.0 | -1556.3 | 4521 | 8.5 | 171253.8 | -1531.4 | 4611 | 9.5 | 172800.2 | -1516.4 | 4701 | 9.6 | 174328.7 | -1516.5 |
| 4432 | 10.  | 165406.8 | -1548.9 | 4522 | 9.5 | 171306.8 | -1553.5 | 4612 | 9.5 | 172801.1 | -1504.7 | 4702 | 9.0 | 174337.7 | -1527.1 |
| 4433 | 9.8  | 165434.8 | -1531.5 | 4523 | 9.5 | 171311.9 | -1531.4 | 4613 | 8.6 | 172804.1 | -1522.9 | 4703 | 9.8 | 174343.6 | -1515.2 |
| 4434 | 9.4  | 165442.7 | -1529.2 | 4524 | 9.3 | 171319.6 | -1523.5 | 4614 | 9.1 | 172827.2 | -1535.3 | 4704 | 9.4 | 174401.7 | -1514.0 |
| 4435 | 8.9  | 165448.2 | -1539.2 | 4525 | 9.1 | 171324.4 | -1533.9 | 4615 | 9.8 | 172829.3 | -1527.2 | 4705 | 9.8 | 174408.5 | -1512.6 |
|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4436 | 9.5  | 165453.0 | -1557.1 | 4526 | 9.4 | 171331.9 | -1505.5 | 4616 | 9.1 | 172838.0 | -1550.7 | 4706 | 8.7 | 174507.2 | -1537.3 |
| 4437 | 8.9  | 165509.7 | -1528.8 | 4527 | 9.4 | 171348.6 | -1558.8 | 4617 | 9.3 | 172838.5 | -1525.2 | 4707 | 9.4 | 174513.1 | -1551.4 |
| 4438 | 7.5  | 165519.4 | -1539.3 | 4528 | 9.5 | 171350.7 | -1520.0 | 4618 | 9.3 | 172841.7 | -1515.7 | 4708 | 9.5 | 174522.9 | -1500.3 |
| 4439 | 6.0  | 165545.8 | -1559.0 | 4529 | 9.5 | 171354.7 | -1540.8 | 4619 | 8.6 | 172906.6 | -1535.2 | 4709 | 9.6 | 174526.0 | -1552.0 |
| 4440 | 9.1  | 165603.1 | -1502.8 | 4530 | 9.5 | 171356.4 | -1544.1 | 4620 | 9.0 | 172907.8 | -1554.2 | 4710 | 9.8 | 174545.8 | -1508.2 |
| 4441 | 9.6  | 165619.0 | -1511.8 | 4531 | 9.0 | 171356.4 | -1546.7 | 4621 | 3.8 | 172917.1 | -1518.7 | 4711 | 9.4 | 174547.2 | -1511.1 |
| 4442 | 9.7  | 165623.7 | -1536.3 | 4532 | 8.5 | 171411.2 | -1518.9 | 4622 | 6.5 | 172918.0 | -1528.1 | 4712 | 9.5 | 174610.0 | -1551.1 |
| 4443 | 9.1  | 165632.4 | -1543.4 | 4533 | 9.6 | 171449.1 | -1530.5 | 4623 | 8.8 | 172918.9 | -1543.5 | 4713 | 9.0 | 174620.1 | -1541.5 |
| 4444 | 9.0  | 165643.0 | -1508.1 | 4534 | 6.7 | 171516.6 | -1553.5 | 4624 | 9.4 | 172920.5 | -1532.8 | 4714 | 9.4 | 174623.9 | -1531.0 |
| 4445 | 8.7  | 165647.8 | -1503.5 | 4535 | 10. | 171523.1 | -1534.4 | 4625 | 9.8 | 172931.1 | -1517.4 | 4715 | 9.9 | 174633.4 | -1518.0 |
|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4446 | 9.4  | 165705.4 | -1538.9 | 4536 | 9.6 | 171533.5 | -1553.8 | 4626 | 9.7 | 172946.2 | -1515.7 | 4716 | 9.3 | 174646.2 | -1541.5 |
| 4447 | 9.6  | 165726.3 | -1517.3 | 4537 | 9.4 | 171535.0 | -1556.2 | 4627 | 9.0 | 173008.0 | -1558.4 | 4717 | 9.2 | 174649.7 | -1541.8 |
| 4448 | 9.2  | 165753.6 | -1512.4 | 4538 | 9.8 | 171548.4 | -1557.2 | 4628 | 9.1 | 173008.8 | -1547.9 | 4718 | 8.8 | 174655.5 | -1548.9 |
| 4449 | 9.0  | 165803.9 | -1514.2 | 4539 | 9.1 | 171604.7 | -1540.8 | 4629 | 9.5 | 173010.5 | -1521.6 | 4719 | 9.5 | 174714.6 | -1512.2 |
| 4450 | 9.9  | 165810.7 | -1521.2 | 4540 | 9.5 | 171617.4 | -1503.0 | 4630 | 9.8 | 173023.5 | -1558.7 | 4720 | 9.5 | 174717.5 | -1519.5 |
| 4451 | 9.5  | 165817.4 | -1544.7 | 4541 | 6.9 | 171619.1 | -1557.2 | 4631 | 9.4 | 173023.6 | -1541.9 | 4721 | 9.1 | 174729.1 | -1540.2 |
| 4452 | 9.6  | 165829.3 | -1530.9 | 4542 | 9.4 | 171623.6 | -1510.0 | 4632 | 9.4 | 173038.1 | -1517.7 | 4722 | 5.9 | 174758.8 | -1546.6 |
| 4453 | 9.4  | 165844.3 | -1557.7 | 4543 | 9.5 | 171623.8 | -1507.7 | 4633 | 9.4 | 173039.7 | -1525.9 | 4723 | 9.2 | 174759.7 | -1547.5 |
| 4454 | 10.  | 165902.4 | -1538.7 | 4544 | 8.8 | 171640.3 | -1513.0 | 4634 | 9.5 | 173053.0 | -1557.3 | 4724 | 8.3 | 174800.6 | -1509.2 |
| 4455 | 30.0 | 165926.3 | -1554.2 | 4545 | 9.5 | 171705.2 | -1549.7 | 4635 | 8.8 | 173104.5 | -1550.7 | 4725 | 9.1 | 174803.3 | -1501.3 |
|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4456 | 9.0  | 165937.6 | -1534.9 | 4546 | 9.5 | 171715.4 | -1506.9 | 4636 | 9.5 | 173134.4 | -1503.8 | 4726 | 8.6 | 174803.9 | -1518.1 |
| 4457 | 10.  | 165948.9 | -1527.1 | 4547 | 8.8 | 171723.3 | -1507.6 | 4637 | 9.9 | 173135.8 | -1523.0 | 4727 | 9.4 | 174812.6 | -1527.4 |
| 4458 | 9.5  | 170013.5 | -1507.1 | 4548 | 9.4 | 171736.1 | -1528.5 | 4638 | 9.7 | 173205.9 | -1534.4 | 4728 | 9.0 | 174817.8 | -1502.2 |
| 4459 | 9.5  | 170039.6 | -1555.9 | 4549 | 9.5 | 171756.3 | -1507.9 | 4639 | 9.9 | 173207.1 | -1518.1 | 4729 | 8.0 | 174828.8 | -1539.6 |
| 4460 | 8.0  | 170057.1 | -1507.7 | 4550 | 9.8 | 171802.8 | -1508.1 | 4640 | 9.0 | 173213.7 | -1526.8 | 4730 | 9.9 | 174831.7 | -1512.8 |
| 4461 | 9.5  | 170102.0 | -1525.8 | 4551 | 8.3 | 171824.2 | -1534.7 | 4641 | 9.3 | 173220.0 | -1548.4 | 4731 | 9.0 | 174839.0 | -1524.1 |
| 4462 | 8.8  | 170103.1 | -1500.3 | 4552 | 9.8 | 171824.6 | -1525.7 | 4642 | 10. | 173226.9 | -1515.8 | 4732 | 9.4 | 174845.5 | -1539.5 |
| 4463 | 8.8  | 170103.2 | -1538.5 | 4553 | 8.9 | 171843.1 | -1557.7 | 4643 | 9.8 | 173228.1 | -1537.3 | 4733 | 9.4 | 174848.2 | -1545.7 |
| 4464 | 9.1  | 170115.8 | -1545.7 | 4554 | 7.0 | 171849.9 | -1543.3 | 4644 | 9.4 | 173205.6 | -1543.5 | 4734 | 9.5 | 174848.9 | -1548.8 |
| 4465 | 9.5  | 170144.2 | -1552.5 | 4555 | 9.4 | 171916.0 | -1533.3 | 4645 | 9.2 | 173307.5 | -1525.6 | 4735 | 9.6 | 174858.6 | -1527.2 |
|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4466 | 8.0  | 170152.3 | -1558.5 | 4556 | 9.2 | 171917.4 | -1550.4 | 4646 | 8.7 | 173310.7 | -1512.8 | 4736 | 9.4 | 174858.7 | -1531.7 |
| 4467 | 2.0  | 170204.0 | -1532.2 | 4557 | 8.8 | 171954.9 | -1534.9 | 4647 | 9.8 | 173315.9 | -1535.0 | 4737 | 9.4 | 174912.7 | -1510.0 |
| 4468 | 9.6  | 170218.0 | -1557.3 | 4558 | 9.8 | 172001.9 | -1501.0 | 4648 | 9.4 | 173317.3 | -1526.4 | 4738 | 9.8 | 174916.4 | -1545.0 |
| 4469 | 8.8  | 170229.5 | -1514.0 | 4559 | 9.5 | 172013.6 | -1558.0 | 4649 | 10. | 173325.1 | -1526.7 | 4739 | 9.5 | 174923.3 | -1533.4 |
| 4470 | 9.5  | 170235.4 | -1516.1 | 4560 | 10. | 172023.2 | -1519.4 | 4650 | 9.6 | 173329.7 | -1512.4 | 4740 | 9.5 | 174926.1 | -1518.3 |
| 4471 | 9.3  | 170245.1 | -1527.7 | 4561 | 9.5 | 172034.0 | -1533.7 | 4651 | 8.5 | 173353.6 | -1538.8 | 4741 | 9.4 | 174929.3 | -1529.1 |
| 4472 | 8.9  | 170248.8 | -1528.4 | 4562 | 9.2 | 172035.2 | -1553.5 | 4652 | 8.9 | 173409.1 | -1554.9 | 4742 | 9.8 | 174943.8 | -1522.7 |
| 4473 | 8.6  | 170249.4 | -1501.7 | 4563 | 9.0 | 172043.4 | -1555.5 | 4653 | 10. | 173413.2 | -1514.6 | 4743 | 9.4 | 174949.0 | -1521.5 |
| 4474 | 8.9  | 170300.5 | -1525.6 | 4564 | 9.2 | 172043.9 | -1525.4 | 4654 | 9.7 | 173416.6 | -1522.8 | 4744 | 9.7 | 174949.0 | -1524.5 |
| 4475 | 9.2  | 170305.7 | -1520.4 | 4565 | 7.5 | 172109.1 | -1554.3 | 4655 | 7.3 | 173420.3 | -1529.0 | 4745 | 9.5 | 174949.0 | -1559.5 |
|      |      |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4476 | 9.2  | 170314.8 | -1529.2 | 4566 | 9.4 | 172119.3 | -1504.8 | 4656 | 9.8 | 173435.2 | -1558.6 | 4746 | 9.3 | 175012.6 | -1516.7 |
| 4477 | 9.2  | 170318.9 | -1520.5 | 4567 | 8.5 | 172134.9 | -1553.4 | 4657 | 9.3 | 173436.8 | -1553.9 | 4747 | 8.9 | 175018.0 | -1535.4 |
| 4478 | 9.6  | 170341.6 | -1511.8 | 4568 | 8.5 | 172138.7 | -1547.4 | 4658 | 9.1 | 173436.8 | -1552.8 | 4748 | 9.5 | 175026.8 | -1516.1 |
| 4479 | 9.8  | 170342.4 | -1536.6 | 4569 | 8.9 | 172145.1 | -1531.4 | 4659 | 9.5 | 173454.1 | -1542.1 | 4749 | 9.2 | 175027.7 | -1507.2 |
| 4480 | 9.0  | 170346.9 | -1538.0 | 4570 | 9.5 | 172148.7 | -1520.0 | 4660 | 9.5 | 173458.3 | -1520.0 | 4750 | 9.4 | 175031.9 | -1521.6 |
| 4481 | 9.2  | 170352.1 | -1538.2 | 4571 | 9.4 | 172156.1 | -1558.1 | 4661 | 9.4 | 173459.5 | -1523.0 | 4751 | 10. | 175032.8 | -1513.8 |
| 4482 | 8.9  | 170414.2 | -1525.6 | 4572 | 7.8 | 172209.9 | -1531.0 | 4662 | 9.5 | 173526.0 |         |      |     |          |         |



-15 4776 17h52m

4776 9.5 175259.0 -1504.8  
4777 9.0 175303.9 -1540.8  
4778 9.1 175331.2 -1538.6  
4779 9.5 175333.1 -1513.3  
4780 9.5 175340.0 -1519.5  
4781 9.5 175347.8 -1532.5  
4782 9.5 175350.6 -1548.8  
4783 9.8 175400.7 -1541.9  
4784 9.4 175412.1 -1517.1  
4785 9.5 175418.5 -1554.4  
  
4786 9.8 175428.0 -1557.5  
4787 9.5 175445.6 -1550.0  
4788 10.1 175446.5 -1537.9  
4789 9.5 175451.6 -1527.0  
4790 9.7 175453.0 -1535.9  
4791 9.8 175523.5 -1539.7  
4792 9.4 175533.6 -1520.2  
4793 9.3 175541.0 -1521.3  
4794 9.5 175542.0 -1503.8  
4795 10.1 175552.5 -1557.6  
  
4796 9.5 175555.4 -1549.5  
4797 9.5 175556.2 -1544.2  
4798 9.5 175557.3 -1504.0  
4799 9.5 175601.3 -1528.8  
4800 9.2 175609.2 -1538.7  
4801 9.3 175611.8 -1504.9  
4802 9.4 175617.3 -1528.3  
4803 7.8 175622.6 -1521.9  
4804 9.4 175625.5 -1530.7  
4805 9.0 175625.7 -1542.7  
  
4806 8.8 175628.4 -1500.8  
4807 9.4 175635.5 -1536.9  
4808 7.7 175638.3 -1517.2  
4809 9.7 175649.0 -1531.4  
4810 9.7 175720.8 -1513.3  
4811 9.8 175740.4 -1505.1  
4812 9.3 175745.6 -1520.9  
4813 9.3 175755.4 -1503.5  
4814 9.5 175755.9 -1527.7  
4815 9.8 175756.2 -1517.1  
  
4816 9.7 175757.9 -1549.6  
4817 9.1 175812.7 -1540.8  
4818 9.5 175815.2 -1545.2  
4819 8.9 175846.7 -1540.3  
4820 9.2 175853.0 -1504.3  
4821 8.9 175856.6 -1534.1  
4822 9.1 175909.5 -1500.2  
4823 9.1 175920.6 -1549.0  
4824 9.4 175924.0 -1529.2  
4825 9.1 175939.1 -1550.5  
  
4826 8.5 175939.5 -1558.6  
4827 9.3 175948.2 -1515.7  
4828 9.5 180011.1 -1547.2  
4829 9.3 180024.5 -1502.6  
4830 9.0 180036.8 -1509.3  
4831 9.3 180036.8 -1509.3  
4832 9.9 180043.0 -1532.7  
4833 9.2 180051.0 -1520.5  
4834 8.5 180051.5 -1504.5  
4835 9.3 180053.0 -1518.8  
  
4836 10.1 180106.7 -1542.6  
4837 10.1 180108.8 -1552.3  
4838 9.5 180114.6 -1543.6  
4839 9.5 180118.2 -1543.9  
4840 8.3 180124.9 -1518.2  
4841 9.5 180130.3 -1527.2  
4842 9.0 180131.8 -1533.9  
4843 9.0 180140.7 -1516.0  
4844 9.5 180150.2 -1520.2  
4845 9.5 180215.9 -1505.3  
  
4846 9.5 180220.6 -1549.5  
4847 9.5 180222.0 -1533.4  
4848 9.3 180229.5 -1553.3  
4849 8.0 180249.6 -1554.6  
4850 10.1 180302.3 -1535.5  
4851 9.1 180315.1 -1543.6  
4852 9.3 180315.4 -1526.8  
4853 8.4 180323.8 -1513.7  
4854 8.7 180324.7 -1536.9  
4855 9.4 180329.1 -1525.5  
  
4856 8.0 180331.2 -1542.3  
4857 9.3 180333.4 -1507.1  
4858 9.7 180338.9 -1551.8  
4859 9.1 180346.7 -1518.3  
4860 9.0 180356.3 -1501.3  
4861 9.0 180358.2 -1535.9  
4862 8.8 180405.3 -1512.5  
4863 9.4 180407.6 -1548.2  
4864 7.8 180409.1 -1524.6  
4865 9.0 180415.4 -1539.4

4866 9.3 180415.9 -1502.8  
4867 9.5 180428.0 -1533.2  
4868 8.0 180438.3 -1513.4  
4869 9.3 180441.2 -1519.7  
4870 9.4 180446.1 -1527.6  
4871 9.4 180455.1 -1551.7  
4872 9.5 180457.2 -1544.7  
4873 9.2 180511.6 -1551.4  
4874 7.5 180515.7 -1537.6  
4875 9.2 180518.3 -1525.4  
  
4876 9.0 180520.6 -1544.1  
4877 9.5 180529.0 -1514.9  
4878 9.1 180529.1 -1550.6  
4879 9.8 180532.4 -1501.5  
4880 9.7 180545.4 -1553.5  
4881 9.9 180548.3 -1512.6  
4882 9.8 180556.2 -1515.3  
4883 9.5 180558.1 -1523.4  
4884 9.5 180558.3 -1508.0  
4885 9.5 180609.2 -1540.6  
  
4886 9.5 180611.8 -1511.6  
4887 9.3 180615.3 -1503.9  
4888 9.3 180619.0 -1557.2  
4889 7.1 180638.4 -1525.5  
4890 8.9 180648.8 -1542.2  
4891 9.8 180652.5 -1514.5  
4892 9.6 180653.7 -1500.8  
4893 9.3 180702.1 -1559.8  
4894 9.5 180719.1 -1538.5  
4895 9.5 180719.2 -1505.8  
  
4896 8.5 180719.6 -1556.1  
4897 9.5 180730.0 -1556.2  
4898 9.8 180735.9 -1522.4  
4899 9.8 180739.4 -1508.8  
4900 10.1 180753.3 -1502.3  
4901 9.6 180801.8 -1531.5  
4902 9.5 180809.9 -1520.4  
4903 9.5 180812.1 -1541.9  
4904 9.3 180824.6 -1559.5  
4905 9.5 180828.9 -1534.0  
  
4906 9.3 180830.8 -1542.4  
4907 9.2 180848.6 -1526.7  
4908 9.0 180855.1 -1545.7  
4909 9.5 180856.5 -1529.9  
4910 9.0 180857.6 -1539.5  
4911 6.7 180918.9 -1528.9  
4912 9.5 180941.5 -1553.1  
4913 9.7 180955.6 -1538.1  
4914 9.6 180956.8 -1540.0  
4915 9.5 181007.6 -1521.3  
  
4916 9.2 181007.9 -1529.5  
4917 9.8 181018.2 -1549.0  
4918 9.8 181021.4 -1514.6  
4919 9.5 181035.7 -1553.9  
4920 9.5 181041.8 -1548.3  
4921 9.1 181042.1 -1531.7  
4922 9.2 181057.5 -1514.0  
4923 9.0 181102.5 -1539.3  
4924 9.5 181110.7 -1556.2  
4925 9.5 181114.9 -1538.6  
  
4926 10.1 181133.4 -1510.3  
4927 5.7 181148.1 -1553.3  
4928 9.5 181153.7 -1543.1  
4929 9.0 181200.2 -1516.8  
4930 9.0 181202.4 -1507.6  
4931 9.5 181202.6 -1551.6  
4932 9.4 181207.7 -1553.5  
4933 9.1 181210.0 -1527.2  
4934 9.3 181227.5 -1567.5  
4935 9.5 181230.3 -1520.7  
  
4936 9.4 181231.8 -1533.1  
4937 9.5 181240.9 -1511.5  
4938 7.2 181243.9 -1517.3  
4939 8.7 181246.7 -1511.8  
4940 9.4 181308.7 -1525.8  
4941 9.5 181310.5 -1505.6  
4942 9.2 181323.6 -1542.8  
4943 9.3 181332.9 -1516.9  
4944 9.5 181336.8 -1518.6  
4945 9.3 181347.3 -1509.1  
  
4946 7.0 181357.0 -1508.9  
4947 9.0 181403.8 -1533.8  
4948 9.5 181407.9 -1541.0  
4949 9.5 181429.4 -1527.5  
4950 9.5 181431.2 -1558.7  
4951 9.5 181439.3 -1525.1  
4952 9.0 181450.1 -1540.8  
4953 9.1 181456.7 -1526.1  
4954 9.4 181509.3 -1525.3  
4955 9.5 181523.7 -1548.3

4956 9.8 181534.0 -1533.6  
4957 9.2 181538.7 -1556.8  
4958 9.5 181552.0 -1533.3  
4959 8.3 181620.7 -1527.7  
4960 9.5 181643.7 -1543.1  
4961 9.4 181652.0 -1514.0  
4962 8.7 181656.5 -1512.1  
4963 9.3 181659.4 -1530.0  
4964 9.4 181700.8 -1507.1  
4965 7.8 181720.0 -1513.6  
  
4966 9.8 181728.4 -1529.4  
4967 9.8 181740.7 -1552.3  
4968 9.2 181741.9 -1553.6  
4969 10.1 181800.1 -1521.6  
4970 7.5 181804.2 -1542.3  
4971 9.2 181900.7 -1546.9  
4972 7.3 181912.4 -1527.6  
4973 9.8 181931.3 -1529.4  
4974 9.9 181937.0 -1527.7  
4975 9.3 181952.7 -1535.8  
  
4976 9.8 182006.9 -1550.6  
4977 9.1 182009.9 -1553.5  
4978 9.8 182012.0 -1517.7  
4979 9.3 182028.8 -1538.4  
4980 9.5 182052.2 -1534.4  
4981 9.3 182058.1 -1522.3  
4982 8.9 182059.8 -1522.3  
4983 9.6 182105.2 -1541.3  
4984 9.5 182109.8 -1509.3  
4985 9.8 182110.0 -1530.4  
  
4986 9.7 182143.7 -1531.7  
4987 9.4 182149.3 -1525.3  
4988 9.8 182206.8 -1544.0  
4989 9.5 182209.5 -1513.7  
4990 9.8 182220.0 -1508.1  
4991 8.3 182220.2 -1550.1  
4992 10.1 182228.9 -1519.1  
4993 9.5 182231.6 -1522.5  
4994 9.5 182234.8 -1541.0  
4995 8.8 182237.5 -1501.5  
  
4996 9.4 182244.3 -1528.3  
4997 10.1 182246.5 -1543.7  
4998 9.9 182250.2 -1556.8  
4999 10.1 182256.1 -1505.3  
5000 9.8 182320.5 -1547.0  
5001 8.0 182332.0 -1516.8  
5002 9.1 182336.3 -1546.1  
5003 8.5 182407.8 -1537.8  
5004 8.5 182418.2 -1547.9  
5005 9.0 182420.6 -1500.9  
  
5006 9.0 182429.2 -1556.4  
5007 9.3 182448.0 -1517.4  
5008 9.5 182450.9 -1537.4  
5009 9.9 182501.7 -1506.7  
5010 9.2 182510.5 -1505.2  
5011 9.5 182527.0 -1550.4  
5012 9.8 182529.8 -1534.5  
5013 9.6 182537.1 -1531.5  
5014 9.7 182538.5 -1534.7  
5015 9.8 182540.5 -1512.3  
  
5016 8.9 182545.5 -1552.0  
5017 9.1 182546.2 -1527.8  
5018 9.1 182546.2 -1525.2  
5019 9.4 182604.9 -1538.1  
5020 9.6 182612.0 -1500.7  
5021 9.5 182629.9 -1519.9  
5022 9.5 182648.3 -1552.0  
5023 9.2 182718.6 -1505.4  
5024 9.0 182720.2 -1549.9  
5025 9.5 182720.5 -1507.9  
  
5026 9.5 182729.8 -1556.8  
5027 9.4 182800.6 -1501.8  
5028 9.6 182818.5 -1513.7  
5029 9.4 182821.4 -1531.8  
5030 7.5 182851.1 -1508.4  
5031 9.3 182903.6 -1508.0  
5032 9.0 182907.1 -1502.8  
5033 8.5 182924.9 -1532.7  
5034 9.5 182929.9 -1529.0  
5035 8.8 182930.1 -1503.0  
  
5036 9.8 182943.8 -1540.9  
5037 9.5 182952.4 -1525.2  
5038 9.5 183002.0 -1514.4  
5039 9.5 183006.4 -1530.0  
5040 9.8 183020.4 -1506.2  
5041 9.5 183039.5 -1534.1  
5042 9.8 183041.8 -1555.5  
5043 7.7 183045.2 -1509.6  
5044 9.8 183046.3 -1541.2  
5045 9.4 183046.8 -1547.0

5046 9.2 183050.7 -1523.0  
5047 9.5 183111.8 -1549.8  
5048 9.4 183117.4 -1513.1  
5049 9.0 183123.4 -1517.0  
5050 9.4 183127.7 -1518.6  
5051 9.4 183141.1 -1526.5  
5052 10.1 183147.8 -1554.4  
5053 9.6 183152.8 -1552.2  
5054 9.6 183154.0 -1546.7  
5055 9.5 183158.3 -1559.1  
  
5056 9.0 183213.4 -1529.4  
5057 9.4 183222.4 -1538.4  
5058 9.2 183225.9 -1533.5  
5059 8.7 183242.2 -1501.1  
5060 9.5 183304.9 -1559.0  
5061 9.8 183326.1 -1522.7  
5062 8.6 183350.3 -1547.5  
5063 8.2 183356.3 -1559.4  
5064 9.7 183403.2 -1518.5  
5065 9.4 183412.3 -1548.9  
  
5066 9.5 183413.5 -1552.5  
5067 7.3 183420.7 -1539.4  
5068 9.0 183424.3 -1555.6  
5069 8.9 183427.2 -1531.2  
5070 10.1 183454.8 -1519.9  
5071 9.0 183503.3 -1551.1  
5072 9.8 183515.4 -1556.7  
5073 9.7 183517.9 -1502.5  
5074 10.1 183519.1 -1501.3  
5075 9.8 183522.8 -1556.2  
  
5076 8.7 183527.7 -1524.5  
5077 9.5 183540.3 -1523.0  
5078 9.5 183550.1 -1553.7  
5079 9.8 183610.3 -1516.1  
5080 9.5 183627.6 -1553.2  
5081 10.1 183650.2 -1556.6  
5082 10.1 183651.5 -1552.7  
5083 9.5 183653.4 -1504.8  
5084 9.4 183703.7 -1528.1  
5085 9.4 183741.5 -1533.8  
  
5086 8.0 183746.5 -1537.2  
5087 9.5 183810.8 -1520.0  
5088 9.4 183811.5 -1538.3  
5089 9.1 183828.4 -1500.8  
5090 9.4 183833.4 -1508.2  
5091 8.0 183834.7 -1503.8  
5092 9.4 183926.9 -1517.5  
5093 9.5 183929.6 -1556.3  
5094 9.8 183936.0 -1534.8  
5095 9.4 183949.5 -1539.9  
  
5096 9.5 183957.7 -1504.0  
5097 9.4 184011.4 -1500.0  
5098 9.2 184013.0 -1526.0  
5099 8.2 184019.0 -1527.1  
5100 8.5 184029.9 -1511.0  
5101 9.8 184042.4 -1558.4  
5102 8.6 184054.3 -1518.5  
5103 9.5 184054.4 -1516.1  
5104 9.4 184056.4 -1543.8  
5105 9.5 184100.9 -1555.4  
  
5106 9.5 184118.0 -1540.6  
5107 8.7 184127.4 -1512.5  
5108 9.6 184131.3 -1528.6  
5109 9.4 184133.4 -1557.4  
5110 9.0 184137.4 -1547.3  
5111 9.3 184152.1 -1535.5  
5112 9.5 184210.9 -1510.4  
5113 9.1 184213.9 -1526.4  
5114 9.6 184220.9 -1557.6  
5115 9.6 184226.8 -1524.2  
  
5116 9.5 184233.0 -1530.4  
5117 9.0 184237.3 -1525.1  
5118 9.5 184242.6 -1516.8  
5119 9.5 184243.4 -1529.5  
5120 9.1 184248.4 -1545.6  
5121 9.6 184252.9 -1513.2  
5122 9.5 184311.8 -1519.2  
5123 9.5 184313.9 -1508.5  
5124 9.3 184317.2 -1549.7  
5125 9.1 184321.3 -1521.3  
  
5126 9.6 184326.4 -1516.9  
5127 9.8 184331.4 -1556.1  
5128 9.8 184332.7 -1525.9  
5129 9.0 184359.7 -1535.6  
5130 10.1 184414.9 -1547.4  
5131 9.8 184424.2 -1539.7  
5132 8.0 184437.4 -1529.8  
5133 8.6 184455.0 -1536.2  
5134 9.7 184457.5 -1542.4  
5135 9.6 184517.9 -1504.5

-15 5135 18h45m



|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 5136 9.8 184522.4 -1528.1 | 5226 9.0 185747.6 -1504.9 | 5316 9.6 191147.7 -1554.3 | 5406 9.5 192740.0 -1511.7 |
| 5137 9.4 184537.9 -1547.7 | 5227 9.8 185750.1 -1510.7 | 5317 9.6 191147.8 -1551.2 | 5407 9.0 192846.5 -1513.0 |
| 5138 8.7 184554.4 -1511.1 | 5228 8.8 185754.9 -1521.5 | 5318 8.8 191203.5 -1537.6 | 5408 9.4 192915.1 -1531.2 |
| 5139 9.8 184605.8 -1524.4 | 5229 9.5 185802.4 -1524.9 | 5319 9.4 191209.7 -1526.9 | 5409 9.5 192927.4 -1503.5 |
| 5140 9.0 184610.4 -1554.7 | 5230 9.5 185804.6 -1554.7 | 5320 9.5 191211.0 -1529.6 | 5410 8.5 192934.5 -1505.2 |
| 5141 9.6 184617.7 -1544.3 | 5231 7.8 185826.2 -1541.3 | 5321 9.1 191218.2 -1533.9 | 5411 8.7 192951.4 -1518.2 |
| 5142 9.5 184621.3 -1527.5 | 5232 9.5 185833.0 -1517.3 | 5322 9.5 191257.5 -1546.4 | 5412 9.0 192952.3 -1550.2 |
| 5143 5.7 184623.3 -1546.4 | 5233 9.2 185843.4 -1520.2 | 5323 9.5 191300.5 -1547.1 | 5413 9.1 193004.8 -1546.5 |
| 5144 9.4 184623.8 -1519.5 | 5234 9.1 185851.8 -1550.5 | 5324 9.5 191323.3 -1502.9 | 5414 9.6 193010.2 -1533.2 |
| 5145 9.8 184625.6 -1538.1 | 5235 9.8 185854.5 -1553.0 | 5325 8.7 191325.5 -1550.6 | 5415 9.5 193027.6 -1524.7 |
| 5146 8.8 184629.1 -1524.4 | 5236 9.6 185859.5 -1534.5 | 5326 9.3 191335.2 -1514.8 | 5416 9.5 193028.4 -1507.4 |
| 5147 9.3 184643.0 -1512.3 | 5237 9.4 185907.8 -1530.8 | 5327 9.5 191344.8 -1558.7 | 5417 9.5 193048.4 -1549.0 |
| 5148 9.4 184651.0 -1542.4 | 5238 10. 185908.0 -1506.7 | 5328 9.4 191350.2 -1509.5 | 5418 9.2 193110.7 -1524.8 |
| 5149 8.2 184655.5 -1555.2 | 5239 9.2 185916.6 -1522.9 | 5329 9.5 191356.5 -1558.5 | 5419 9.5 193120.9 -1542.3 |
| 5150 9.3 184658.4 -1554.0 | 5240 9.2 185918.3 -1503.3 | 5330 9.5 191409.5 -1548.2 | 5420 6.8 193138.1 -1529.6 |
| 5151 9.2 184723.0 -1528.1 | 5241 9.5 185920.0 -1508.5 | 5331 9.0 191438.7 -1506.8 | 5421 7.8 193141.0 -1510.7 |
| 5152 9.2 184733.4 -1508.3 | 5242 8.4 185930.8 -1520.8 | 5332 8.5 191444.2 -1550.7 | 5422 9.5 193148.2 -1547.4 |
| 5153 9.1 184813.4 -1526.2 | 5243 9.2 185941.8 -1526.8 | 5333 8.5 191444.8 -1511.0 | 5423 9.4 193151.5 -1515.3 |
| 5154 7.5 184829.8 -1502.6 | 5244 9.5 190004.5 -1517.6 | 5334 9.0 191457.0 -1553.4 | 5424 8.9 193155.5 -1536.5 |
| 5155 9.5 184839.5 -1552.9 | 5245 9.8 190010.7 -1548.2 | 5335 8.8 191502.0 -1533.7 | 5425 9.6 193201.9 -1530.2 |
| 5156 9.6 184858.5 -1552.9 | 5246 9.1 190044.1 -1559.0 | 5336 9.5 191513.6 -1520.4 | 5426 9.5 193205.9 -1532.7 |
| 5157 8.9 184914.0 -1552.7 | 5247 9.0 190044.4 -1530.5 | 5337 9.3 191520.0 -1552.7 | 5427 9.7 193214.0 -1511.2 |
| 5158 9.8 184936.8 -1515.3 | 5248 9.4 190045.8 -1524.5 | 5338 9.2 191549.0 -1557.2 | 5428 8.7 193219.8 -1525.0 |
| 5159 8.8 185009.2 -1531.0 | 5249 9.3 190046.5 -1509.1 | 5339 9.5 191606.8 -1531.7 | 5429 9.8 193223.4 -1548.1 |
| 5160 9.5 185032.5 -1545.0 | 5250 8.9 190059.8 -1546.4 | 5340 9.5 191627.1 -1540.5 | 5430 9.8 193240.5 -1520.2 |
| 5161 9.8 185049.0 -1511.1 | 5251 9.5 190119.1 -1529.4 | 5341 8.2 191638.2 -1518.2 | 5431 8.3 193244.9 -1544.1 |
| 5162 9.6 185049.3 -1527.4 | 5252 9.5 190142.3 -1528.9 | 5342 9.5 191651.3 -1504.0 | 5432 8.9 193311.4 -1501.5 |
| 5163 9.8 185055.9 -1522.7 | 5253 9.2 190151.3 -1553.1 | 5343 9.5 191701.0 -1545.4 | 5433 9.6 193349.3 -1557.1 |
| 5164 9.3 185057.5 -1538.4 | 5254 9.4 190153.8 -1559.9 | 5344 9.8 191718.7 -1509.7 | 5434 9.5 193402.0 -1510.0 |
| 5165 9.6 185125.8 -1527.4 | 5255 9.1 190154.3 -1526.6 | 5345 9.8 191719.6 -1530.2 | 5435 9.5 193403.4 -1527.6 |
| 5166 8.7 185126.6 -1530.5 | 5256 9.5 190223.9 -1525.9 | 5346 8.7 191733.3 -1555.7 | 5436 8.5 193404.0 -1518.0 |
| 5167 9.3 185135.0 -1500.4 | 5257 9.4 190225.8 -1557.2 | 5347 10. 191733.4 -1552.4 | 5437 9.5 193406.5 -1504.1 |
| 5168 8.3 185140.5 -1553.7 | 5258 10. 190229.6 -1554.3 | 5348 6.5 191755.7 -1520.2 | 5438 8.4 193435.6 -1541.1 |
| 5169 9.0 185144.5 -1556.6 | 5259 7.5 190235.0 -1518.7 | 5349 8.5 191801.9 -1529.1 | 5439 9.6 193450.4 -1514.0 |
| 5170 9.5 185145.2 -1514.6 | 5260 9.5 190246.8 -1545.6 | 5350 9.1 191803.6 -1537.1 | 5440 9.5 193452.7 -1538.5 |
| 5171 10. 185146.4 -1516.6 | 5261 9.4 190248.8 -1552.5 | 5351 9.3 191831.1 -1555.6 | 5441 8.5 193456.1 -1530.7 |
| 5172 9.5 185206.0 -1543.8 | 5262 9.5 190251.8 -1551.7 | 5352 9.0 191835.6 -1550.3 | 5442 9.8 193516.1 -1504.4 |
| 5173 10. 185208.2 -1516.6 | 5263 9.1 190257.8 -1546.5 | 5353 8.5 191842.9 -1534.6 | 5443 9.5 193516.7 -1519.8 |
| 5174 10. 185210.5 -1507.9 | 5264 8.4 190300.6 -1534.6 | 5354 9.4 191849.9 -1535.4 | 5444 6.0 193517.0 -1548.1 |
| 5175 9.7 185225.9 -1512.4 | 5265 8.7 190306.6 -1526.5 | 5355 9.8 191855.7 -1522.8 | 5445 9.1 193540.4 -1537.2 |
| 5176 10. 185227.9 -1504.1 | 5266 9.8 190330.4 -1513.5 | 5356 10. 191905.7 -1523.6 | 5446 9.5 193558.7 -1556.7 |
| 5177 9.8 185232.8 -1528.2 | 5267 10. 190335.9 -1545.7 | 5357 9.1 191907.6 -1535.9 | 5447 9.5 193603.7 -1524.4 |
| 5178 9.0 185240.3 -1534.0 | 5268 9.3 190351.3 -1543.1 | 5358 9.7 191914.0 -1528.2 | 5448 9.1 193609.7 -1520.7 |
| 5179 9.5 185241.0 -1546.6 | 5269 9.4 190400.4 -1523.7 | 5359 9.5 191939.2 -1536.0 | 5449 9.4 193628.4 -1551.7 |
| 5180 9.9 185245.4 -1518.5 | 5270 9.5 190413.0 -1503.1 | 5360 9.3 192018.6 -1533.5 | 5450 9.4 193629.6 -1526.2 |
| 5181 9.8 185249.5 -1548.8 | 5271 10. 190425.3 -1559.1 | 5361 9.4 192019.5 -1519.5 | 5451 9.3 193630.1 -1556.5 |
| 5182 10. 185251.7 -1502.5 | 5272 10. 190434.4 -1543.6 | 5362 7.2 192020.9 -1523.4 | 5452 9.6 193633.3 -1515.6 |
| 5183 10. 185256.2 -1513.5 | 5273 9.3 190437.7 -1513.4 | 5363 9.4 192036.6 -1546.7 | 5453 9.5 193656.7 -1529.1 |
| 5184 10. 185208.3 -1508.1 | 5274 8.7 190438.9 -1515.2 | 5364 9.4 192044.3 -1509.9 | 5454 9.1 193658.6 -1533.8 |
| 5185 6.5 185316.1 -1528.8 | 5275 9.7 190441.2 -1520.1 | 5365 9.9 192050.2 -1529.2 | 5455 8.7 193700.1 -1527.2 |
| 5186 9.8 185331.2 -1512.8 | 5276 9.9 190446.9 -1538.2 | 5366 7.1 192117.9 -1539.1 | 5456 9.4 193708.6 -1530.9 |
| 5187 9.2 185338.0 -1559.0 | 5277 9.7 190503.9 -1553.6 | 5367 8.8 192146.6 -1531.2 | 5457 9.5 193709.4 -1525.6 |
| 5188 9.9 185349.2 -1518.3 | 5278 9.2 190522.5 -1540.5 | 5368 9.1 192153.1 -1525.9 | 5458 9.0 193709.4 -1540.1 |
| 5189 9.4 185359.0 -1548.2 | 5279 9.1 190525.1 -1547.4 | 5369 9.9 192225.8 -1510.0 | 5459 8.3 193754.9 -1540.8 |
| 5190 8.8 185402.1 -1544.3 | 5280 9.5 190536.4 -1553.0 | 5370 9.5 192228.2 -1531.0 | 5460 9.5 193808.3 -1500.0 |
| 5191 9.6 185404.1 -1506.6 | 5281 9.3 190536.9 -1558.2 | 5371 9.5 192231.4 -1515.6 | 5461 9.3 193826.5 -1559.1 |
| 5192 9.0 185411.1 -1557.7 | 5282 9.0 190547.5 -1502.9 | 5372 9.7 192235.9 -1568.7 | 5462 9.0 193827.1 -1514.1 |
| 5193 9.8 185419.0 -1550.4 | 5283 9.6 190606.3 -1548.9 | 5373 9.5 192248.7 -1557.2 | 5463 9.0 193832.4 -1524.0 |
| 5194 9.8 185421.7 -1518.8 | 5284 9.1 190625.9 -1537.9 | 5374 9.5 192303.5 -1516.9 | 5464 9.5 193833.2 -1531.6 |
| 5195 9.5 185421.8 -1552.5 | 5285 9.5 190634.1 -1532.5 | 5375 9.8 192314.0 -1524.3 | 5465 8.8 193835.9 -1542.2 |
| 5196 9.5 185438.0 -1545.5 | 5286 9.4 190637.0 -1512.3 | 5376 9.5 192339.1 -1555.7 | 5466 8.6 193914.7 -1521.1 |
| 5197 9.1 185439.1 -1557.6 | 5287 9.5 190652.1 -1504.4 | 5377 9.7 192346.8 -1525.7 | 5467 9.0 193922.0 -1538.4 |
| 5198 8.9 185442.9 -1522.5 | 5288 9.5 190722.0 -1554.8 | 5378 9.5 192347.1 -1510.5 | 5468 9.2 193949.4 -1525.0 |
| 5199 8.3 185447.6 -1504.9 | 5289 9.3 190724.7 -1554.8 | 5379 9.1 192351.3 -1500.9 | 5469 9.2 193951.8 -1511.6 |
| 5200 9.1 185448.5 -1543.3 | 5290 7.7 190727.1 -1505.2 | 5380 9.3 192409.4 -1514.3 | 5470 9.6 193959.0 -1526.6 |
| 5201 9.1 185455.3 -1552.9 | 5291 9.5 190743.2 -1520.2 | 5381 9.4 192423.7 -1542.7 | 5471 9.8 194014.0 -1529.1 |
| 5202 9.3 185456.2 -1535.8 | 5292 9.5 190752.8 -1511.3 | 5382 9.0 192434.8 -1537.4 | 5472 8.6 194044.1 -1526.6 |
| 5203 9.8 185509.1 -1514.4 | 5293 9.0 190753.9 -1550.3 | 5383 9.5 192441.7 -1524.5 | 5473 9.4 194059.6 -1547.2 |
| 5204 8.5 185513.0 -1529.5 | 5294 9.5 190820.1 -1512.2 | 5384 9.5 192443.6 -1525.5 | 5474 9.5 194104.1 -1506.3 |
| 5205 9.5 185515.1 -1501.0 | 5295 9.5 190822.5 -1531.8 | 5385 9.1 192451.7 -1548.7 | 5475 9.3 194123.3 -1511.4 |
| 5206 9.7 185527.6 -1521.3 | 5296 9.5 190825.7 -1524.3 | 5386 7.8 192500.8 -1518.7 | 5476 9.4 194137.0 -1538.9 |
| 5207 10. 185533.0 -1510.1 | 5297 9.6 190836.0 -1528.8 | 5387 8.8 192510.3 -1503.7 | 5477 9.5 194148.0 -1524.3 |
| 5208 9.4 185533.9 -1539.0 | 5298 9.1 190848.6 -1501.8 | 5388 9.5 192516.2 -1556.4 | 5478 7.8 194210.2 -1517.5 |
| 5209 9.5 185534.7 -1514.7 | 5299 9.6 190856.6 -1511.0 | 5389 9.8 192518.7 -1538.0 | 5479 8.0 194213.5 -1547.1 |
| 5210 9.4 185546.0 -1549.1 | 5300 9.8 190917.2 -1552.5 | 5390 9.6 192533.7 -1524.3 | 5480 9.9 194236.9 -1559.4 |
| 5211 9.1 185549.2 -1533.3 | 5301 9.5 190919.6 -1511.5 | 5391 9.8 192544.8 -1524.1 | 5481 8.3 194301.0 -1531.4 |
| 5212 9.5 185603.5 -1553.5 | 5302 9.1 190923.1 -1513.3 | 5392 9.4 192546.7 -1521.7 | 5482 9.5 194311.5 -1548.3 |
| 5213 9.5 185620.1 -1509.3 | 5303 9.8 190928.9 -1565.2 | 5393 9.3 192547.8 -1531.3 | 5483 8.8 194314.8 -1558.2 |
| 5214 9.8 185623.3 -1548.5 | 5304 9.1 190948.6 -1500.2 | 5394 9.2 192555.4 -1532.4 | 5484 7.0 194330.4 -1508.3 |
| 5215 9.5 185630.3 -1552.8 | 5305 10. 191012.0 -1519.2 | 5395 9.4 192559.3 -1528.5 | 5485 9.5 194340.6 -1500.4 |
| 5216 10. 185640.0 -1510.7 | 5306 9.3 191013.2 -1542.3 | 5396 9.2 192601.6 -1508.3 | 5486 9.5 194347.6 -1558.2 |
| 5217 9.8 185650.1 -1508.1 | 5307 9.8 191016.0 -1521.6 | 5397 9.0 192604.3 -1523.2 | 5487 9.3 194359.9 -1510.5 |
| 5218 10. 185702.7 -1502.3 | 5308 8.8 191025.3 -1503.5 | 5398 9.5 192612.6 -1519.9 | 5488 9.1 194405.6 -1554.5 |
| 5219 10. 185706.8 -1526.1 | 5309 9.8 191043.6 -1500.0 | 5399 9.5 192619.4 -1510.5 | 5489 9.5 194409.5 -1548.0 |
| 5220 9.1 185708.8 -1543.2 | 5310 6.0 191044.4 -1546.9 | 5400 9.8 192627.1 -1503.1 | 5490 8.5 194414.7 -1549.9 |
| 5221 9.5 185708.9 -1537.6 | 5311 10. 191101.4 -1507.8 | 5401 9.9 192709.4 -1534.2 | 5491 9.3 194428.6 -1557.5 |
| 5222 9.1 185710.5 -1554.6 | 5312 9.1 191101.6 -1517.9 | 5402 10. 192712.5 -1543.2 | 5492 8.3 194429.8 -1547.2 |
| 5223 5.8 185721.6 -1552.6 | 5313 9.6 191106.0 -1543.1 | 5403 9.2 192721.3 -1528.5 | 5493 9.3 194446.9 -1515.0 |
| 5224 9.4 185729.5 -1549.7 | 5314 9.0 191127.0 -1554.5 | 5404 9.0 192733.2 -1552.5 | 5494 8.9 194451.4 -1526.6 |
| 5225 9.0 185744.6 -1552.1 | 5315 9.3 191135.3 -1521.6 | 5405 9.6 192733.6 -1506.1 | 5495 8.7 194453.8 -1524.5 |



-15 5496 19h44m

5496 9.8 194453.9 -1504.1  
5497 9.3 194454.5 -1535.2  
5498 9.3 194502.3 -1517.2  
5499 9.8 194518.9 -1508.0  
5500 9.8 194538.8 -1511.0  
5501 9.0 194604.1 -1540.6  
5502 9.3 194730.2 -1552.9  
5503 9.3 194732.9 -1516.5  
5504 8.0 194743.1 -1546.8  
5505 9.3 194752.8 -1520.8  
  
5506 9.4 194804.6 -1541.0  
5507 10. 194807.1 -1506.7  
5508 9.8 194809.8 -1549.2  
5509 9.7 194815.6 -1503.0  
5510 9.5 194834.5 -1531.6  
5511 9.5 194834.4 -1516.0  
5512 9.0 194904.2 -1539.3  
5513 7.8 194920.1 -1550.1  
5514 9.6 194921.5 -1502.8  
5515 10. 194923.0 -1548.7  
  
5516 5.3 194943.7 -1552.4  
5517 10. 194947.1 -1531.3  
5518 8.2 194956.9 -1521.7  
5519 9.5 195009.3 -1505.2  
5520 9.5 195028.4 -1517.9  
5521 9.5 195030.4 -1506.4  
5522 9.5 195054.7 -1559.6  
5523 9.0 195055.2 -1523.2  
5524 9.7 195122.6 -1531.6  
5525 9.7 195123.1 -1548.0  
  
5526 9.5 195135.9 -1548.8  
5527 9.4 195212.5 -1543.7  
5528 9.6 195212.5 -1551.0  
5529 9.8 195213.4 -1523.0  
5530 9.3 195254.4 -1516.2  
5531 8.8 195301.4 -1504.8  
5532 9.0 195304.2 -1537.2  
5533 9.4 195309.7 -1556.2  
5534 8.0 195309.9 -1508.4  
5535 9.1 195355.8 -1528.3  
  
5536 9.3 195408.5 -1528.3  
5537 9.3 195429.4 -1510.1  
5538 9.5 195433.1 -1559.4  
5539 8.5 195443.8 -1535.5  
5540 9.5 195508.5 -1508.6  
5541 7.2 195520.2 -1548.9  
5542 9.1 195542.5 -1535.0  
5543 8.8 195544.9 -1527.7  
5544 9.5 195546.0 -1546.9  
5545 9.4 195615.0 -1554.5  
  
5546 9.8 195625.9 -1514.5  
5547 8.7 195628.6 -1500.8  
5548 9.8 195628.6 -1531.0  
5549 9.3 195629.2 -1523.8  
5550 9.5 195643.8 -1548.0  
5551 10. 195711.0 -1517.5  
5552 8.8 195715.6 -1530.2  
5553 9.5 195728.7 -1535.0  
5554 8.5 195731.0 -1549.4  
5555 9.2 195739.2 -1531.7  
  
5556 9.2 195801.5 -1511.0  
5557 8.0 195813.9 -1519.0  
5558 9.1 195850.6 -1529.9  
5559 8.8 195914.3 -1540.7  
5560 9.4 195952.4 -1552.0  
5561 9.5 195957.1 -1508.6  
5562 9.1 200006.1 -1511.7  
5563 9.2 200014.6 -1509.4  
5564 6.6 200018.5 -1526.7  
5565 8.5 200038.4 -1550.1  
  
5566 9.5 200057.6 -1544.6  
5567 9.8 200137.6 -1507.6  
5568 9.4 200217.9 -1537.5  
5569 9.5 200218.3 -1542.0  
5570 9.5 200220.8 -1531.0  
5571 9.8 200221.6 -1547.0  
5572 9.5 200247.2 -1540.2  
5573 9.1 200254.1 -1508.7  
5574 9.8 200254.7 -1500.3  
5575 9.5 200301.6 -1523.0  
  
5576 8.5 200306.0 -1555.2  
5577 9.6 200356.8 -1527.1  
5578 9.3 200422.9 -1521.6  
5579 8.8 200429.8 -1537.2  
5580 8.8 200435.4 -1541.7  
5581 9.0 200435.5 -1553.7  
5582 9.7 200452.2 -1533.9  
5583 9.8 200512.8 -1511.3  
5584 8.5 200514.4 -1551.3  
5585 9.2 200518.0 -1528.1

5586 9.1 200521.0 -1528.9  
5587 9.3 200539.7 -1547.9  
5588 9.1 200552.9 -1541.5  
5589 9.5 200554.4 -1521.9  
5590 9.3 200610.2 -1515.8  
5591 9.7 200617.7 -1522.5  
5592 8.0 200622.4 -1546.0  
5593 9.0 200631.5 -1547.3  
5594 9.3 200641.7 -1512.7  
5595 9.5 200702.8 -1527.8  
  
5596 9.5 200714.1 -1552.6  
5597 8.3 200714.2 -1512.9  
5598 9.5 200715.5 -1515.4  
5599 9.0 200729.2 -1520.0  
5600 9.4 200733.4 -1537.8  
5601 9.5 200744.4 -1533.6  
5602 9.8 200753.8 -1509.7  
5603 9.3 200820.5 -1537.4  
5604 9.3 200827.7 -1522.4  
5605 9.4 200833.4 -1524.1  
  
5606 7.3 200835.0 -1537.3  
5607 8.8 200853.1 -1557.7  
5608 9.4 200856.3 -1510.4  
5609 9.1 200908.9 -1536.7  
5610 9.4 200913.1 -1540.7  
5611 9.5 200919.0 -1553.7  
5612 9.3 200944.8 -1516.5  
5613 8.1 201013.8 -1517.4  
5614 9.8 201023.7 -1518.1  
5615 9.0 201053.8 -1517.7  
  
5616 9.0 201111.1 -1531.5  
5617 8.8 201124.8 -1555.7  
5618 9.8 201124.9 -1512.2  
5619 8.0 201143.8 -1528.0  
5620 9.8 201155.5 -1547.5  
5621 8.7 201156.6 -1532.6  
5622 8.3 201204.9 -1511.5  
5623 9.5 201213.9 -1517.3  
5624 9.1 201223.3 -1505.0  
5625 9.3 201232.8 -1551.7  
  
5626 7.0 201237.9 -1514.0  
5627 8.8 201243.1 -1555.7  
5628 8.0 201249.1 -1552.6  
5629 3.0 201251.8 -1513.8  
5630 9.2 201255.0 -1542.0  
5631 8.8 201303.4 -1517.0  
5632 9.0 201315.4 -1528.3  
5633 9.2 201317.8 -1530.0  
5634 9.4 201322.2 -1525.2  
5635 9.8 201334.8 -1513.5  
  
5636 9.4 201335.5 -1549.8  
5637 10. 201405.9 -1511.4  
5638 9.9 201415.0 -1504.5  
5639 9.6 201421.4 -1504.9  
5640 8.9 201427.9 -1503.8  
5641 9.0 201459.6 -1542.7  
5642 9.5 201500.4 -1558.3  
5643 9.5 201507.5 -1537.9  
5644 9.2 201509.4 -1556.5  
5645 9.1 201518.4 -1514.4  
  
5646 9.3 201521.9 -1516.8  
5647 9.4 201550.0 -1507.3  
5648 9.5 201551.9 -1531.1  
5649 9.0 201555.3 -1526.8  
5650 9.1 201614.1 -1545.9  
5651 9.5 201622.0 -1547.6  
5652 9.5 201622.8 -1538.4  
5653 9.5 201624.7 -1532.0  
5654 9.5 201634.0 -1549.6  
5655 9.7 201652.6 -1559.9  
  
5656 8.3 201710.4 -1517.1  
5657 9.5 201720.0 -1506.4  
5658 9.3 201732.5 -1550.8  
5659 9.2 201742.0 -1505.9  
5660 9.0 201748.7 -1553.9  
5661 8.7 201753.0 -1510.8  
5662 9.3 201753.1 -1531.2  
5663 7.4 201755.2 -1527.0  
5664 9.5 201803.1 -1546.9  
5665 8.8 201808.4 -1537.5  
  
5666 9.8 201823.0 -1528.9  
5667 9.5 201827.8 -1548.5  
5668 9.5 201828.7 -1524.6  
5669 9.0 201830.6 -1547.7  
5670 8.0 201855.5 -1515.1  
5671 9.7 201859.5 -1524.5  
5672 8.8 201904.2 -1531.5  
5673 9.8 201913.9 -1553.9  
5674 9.3 201927.0 -1535.2  
5675 9.1 201944.8 -1535.7

5676 10. 202002.5 -1512.5  
5677 9.5 202008.4 -1506.3  
5678 9.2 202022.5 -1515.9  
5679 8.8 202023.3 -1510.7  
5680 9.5 202023.7 -1554.2  
5681 9.5 202039.0 -1531.5  
5682 9.4 202052.2 -1551.1  
5683 8.3 202054.2 -1532.0  
5684 9.8 202125.6 -1503.0  
5685 9.5 202130.6 -1524.7  
  
5686 9.5 202132.9 -1551.3  
5687 9.4 202145.7 -1510.2  
5688 9.8 202159.0 -1531.6  
5689 9.5 202203.2 -1534.8  
5690 9.8 202203.7 -1507.3  
5691 9.6 202205.0 -1504.0  
5692 9.5 202207.1 -1548.6  
5693 9.1 202208.3 -1535.4  
5694 9.5 202226.4 -1511.7  
5695 9.8 202227.5 -1526.7  
  
5696 6.3 202255.9 -1532.1  
5697 9.0 202311.6 -1516.9  
5698 8.8 202334.3 -1529.1  
5699 10. 202350.3 -1509.5  
5700 9.6 202356.5 -1532.0  
5701 9.0 202410.6 -1545.2  
5702 9.5 202418.2 -1549.2  
5703 9.5 202435.8 -1557.5  
5704 9.5 202439.4 -1547.6  
5705 9.9 202445.3 -1529.4  
  
5706 8.9 202452.9 -1544.2  
5707 9.8 202453.8 -1547.6  
5708 8.5 202513.5 -1542.3  
5709 9.8 202525.9 -1548.2  
5710 9.6 202526.0 -1545.4  
5711 9.1 202528.3 -1554.2  
5712 9.5 202555.2 -1503.3  
5713 9.6 202603.2 -1507.4  
5714 9.0 202612.2 -1504.4  
5715 9.0 202613.5 -1552.8  
  
5716 8.3 202615.3 -1559.0  
5717 8.0 202619.7 -1522.2  
5718 9.0 202653.2 -1514.0  
5719 9.4 202709.4 -1535.3  
5720 9.3 202712.7 -1515.3  
5721 9.8 202726.2 -1515.1  
5722 9.3 202737.3 -1537.8  
5723 9.4 202754.7 -1556.5  
5724 9.1 202801.3 -1510.4  
5725 8.3 202810.0 -1548.6  
  
5726 9.1 202810.3 -1555.7  
5727 9.4 202812.7 -1504.4  
5728 9.8 202819.2 -1530.6  
5729 9.4 202822.4 -1527.0  
5730 9.5 202849.8 -1542.2  
5731 9.0 202906.7 -1514.4  
5732 6.8 202913.2 -1538.5  
5733 9.1 202934.3 -1544.1  
5734 9.0 202945.9 -1559.3  
5735 9.5 203012.7 -1543.4  
  
5736 9.0 203039.8 -1503.6  
5737 9.4 203041.9 -1555.1  
5738 9.0 203046.7 -1547.5  
5739 8.8 203048.8 -1512.3  
5740 9.5 203051.1 -1508.6  
5741 9.7 203102.8 -1545.7  
5742 10. 203109.4 -1504.1  
5743 5.3 203109.6 -1527.0  
5744 9.3 203113.1 -1531.4  
5745 9.5 203125.3 -1552.6  
  
5746 8.5 203126.1 -1528.6  
5747 9.4 203145.3 -1516.3  
5748 9.5 203153.4 -1555.1  
5749 9.8 203205.3 -1553.2  
5750 8.3 203219.2 -1553.1  
5751 9.8 203229.4 -1503.0  
5752 9.0 203230.6 -1555.4  
5753 8.9 203233.3 -1555.0  
5754 9.0 203240.8 -1525.5  
5755 7.9 203255.4 -1501.2  
  
5756 8.8 203300.3 -1539.5  
5757 9.7 203312.4 -1516.5  
5758 9.5 203319.8 -1547.1  
5759 10. 203321.8 -1551.9  
5760 9.5 203332.1 -1554.2  
5761 9.6 203342.1 -1504.9  
5762 9.5 203342.7 -1525.8  
5763 9.5 203403.0 -1503.6  
5764 10. 203404.6 -1520.7  
5765 9.5 203517.7 -1525.4

-15 5855 20h52m

5766 9.4 203523.5 -1500.1  
5767 7.8 203527.3 -1542.3  
5768 9.8 203550.2 -1501.5  
5769 9.1 203550.8 -1530.2  
5770 9.5 203552.9 -1507.3  
5771 9.8 203556.2 -1528.9  
5772 8.6 203618.5 -1533.7  
5773 10. 203619.6 -1522.1  
5774 9.7 203628.8 -1537.7  
5775 8.8 203639.8 -1528.7  
  
5776 9.5 203641.7 -1532.3  
5777 9.6 203642.6 -1544.2  
5778 10. 203656.0 -1548.8  
5779 9.6 203704.5 -1505.2  
5780 7.5 203716.2 -1533.2  
5781 9.8 203730.4 -1502.5  
5782 9.8 203747.0 -1518.4  
5783 9.1 203757.2 -1515.3  
5784 9.2 203800.1 -1534.9  
5785 9.1 203806.5 -1515.1  
  
5786 9.5 203817.9 -1548.5  
5787 9.5 203825.1 -1538.3  
5788 9.8 203833.5 -1503.9  
5789 9.1 203848.2 -1529.7  
5790 8.8 203903.0 -1505.6  
5791 9.5 203921.1 -1551.5  
5792 9.5 203921.2 -1527.6  
5793 9.2 203934.0 -1512.4  
5794 9.5 203934.5 -1559.3  
5795 30.0 204003.7 -1518.8  
  
5796 8.5 204023.6 -1526.1  
5797 9.6 204037.5 -1520.3  
5798 9.4 204055.7 -1543.8  
5799 9.5 204059.3 -1549.2  
5800 9.0 204059.6 -1501.1  
5801 8.7 204104.4 -1525.8  
5802 9.1 204105.1 -1504.3  
5803 9.0 204114.6 -1546.5  
5804 10. 204120.3 -1511.8  
5805 10. 204206.0 -1525.1  
  
5806 9.4 204213.5 -1544.0  
5807 9.5 204217.0 -1550.1  
5808 9.5 204219.4 -1545.8  
5809 8.8 204233.8 -1520.3  
5810 9.5 204234.1 -1515.2  
5811 9.5 204238.3 -1529.7  
5812 9.0 204245.9 -1549.3  
5813 8.9 204255.8 -1536.7  
5814 9.0 204301.4 -1547.8  
5815 9.5 204303.5 -1554.1  
  
5816 9.3 204308.6 -1508.1  
5817 9.5 204325.9 -1546.9  
5818 10. 204329.4 -1543.0  
5819 9.5 204353.0 -1544.1  
5820 9.4 204359.1 -1507.0  
5821 9.9 204417.0 -1558.8  
5822 9.4 204438.1 -1532.3  
5823 9.2 204444.9 -1535.7  
5824 9.3 204446.2 -1502.1  
5825 9.3 204528.0 -1558.2  
  
5826 9.7 204545.8 -1508.2  
5827 9.2 204552.3 -1507.3  
5828 9.8 204610.2 -1501.4  
5829 9.8 204630.4 -1522.9  
5830 9.5 204635.7 -1509.8  
5831 10. 204639.5 -1509.4  
5832 9.8 204641.0 -1530.5  
5833 9.5 204650.9 -1550.0  
5834 9.4 204656.4 -1536.8  
5835 8.5 204726.2 -1509.4  
  
5836 9.5 204729.7 -1513.7  
5837 9.8 204755.3 -1500.5  
5838 8.3 204755.5 -1551.2  
5839 9.2 204756.9 -1513.5  
5840 9.5 204824.7 -1534.5  
5841 9.3 204841.2 -1524.7  
5842 9.0 204911.4 -1530.0  
5843 9.5 204928.2 -1513.9  
5844 10. 204939.8 -1542.2  
5845 9.5 204945.4 -1532.8  
  
5846 8.3 204959.0 -1542.7  
5847 9.5 205008.0 -1514.2  
5848 6.0 205039.8 -1502.3  
5849 9.5 205041.3 -1559.1  
5850 9.8 205046.9 -1503.6  
5851 9.5 205109.2 -1552.4  
5852 8.8 205126.3 -1521.6  
5853 9.4 205132.4 -1527.7  
5854 9.4 205200.0 -1501.1  
5855 9.4 205203.8 -1522.3



-15 5856 20h52m

5856 9.2 205204.2 -1526.8  
5857 9.7 205205.7 -1519.6  
5858 8.3 205210.0 -1540.5  
5859 8.8 205213.9 -1502.2  
5860 9.8 205226.3 -1501.9  
5861 9.3 205228.8 -1515.8  
5862 9.4 205305.7 -1553.6  
5863 9.1 205327.2 -1555.0  
5864 8.3 205334.3 -1516.4  
5865 9.2 205340.4 -1527.5

5866 10. 205401.4 -1554.3  
5867 9.0 205420.1 -1558.9  
5868 10. 205427.8 -1509.5  
5869 9.5 205437.6 -1509.7  
5870 9.7 205455.0 -1510.3  
5871 9.3 205459.1 -1545.0  
5872 8.5 205510.1 -1523.9  
5873 9.8 205518.9 -1521.7  
5874 8.6 205527.1 -1544.2  
5875 9.1 205536.6 -1549.6

5876 9.5 205601.3 -1524.1  
5877 10. 205605.3 -1524.6  
5878 9.2 205605.7 -1510.4  
5879 9.5 205645.6 -1550.0  
5880 9.8 205651.1 -1523.0  
5881 8.2 205655.9 -1506.9  
5882 9.4 205703.4 -1552.5  
5883 9.2 205730.4 -1517.7  
5884 7.4 205734.5 -1528.8  
5885 9.4 205752.7 -1533.6

5886 9.3 205809.5 -1521.8  
5887 9.1 205829.2 -1543.3  
5888 9.4 205835.7 -1558.1  
5889 9.2 205853.1 -1505.0  
5890 9.4 205920.1 -1551.0  
5891 9.4 205922.1 -1552.1  
5892 9.5 205926.5 -1559.3  
5893 9.2 205926.8 -1514.2  
5894 9.5 205943.5 -1550.0  
5895 10. 210002.7 -1526.9

5896 9.0 210017.2 -1555.2  
5897 8.2 210023.6 -1528.8  
5898 9.8 210051.3 -1503.2  
5899 9.8 210103.7 -1516.0  
5900 9.5 210144.6 -1526.1  
5901 9.7 210201.7 -1509.8  
5902 10. 210229.6 -1534.0  
5903 9.8 210241.6 -1520.1  
5904 9.8 210247.6 -1503.6  
5905 9.5 210247.7 -1538.9

5906 10. 210333.2 -1545.4  
5907 9.7 210336.7 -1509.4  
5908 6.3 210339.8 -1503.5  
5909 9.7 210343.5 -1540.4  
5910 8.2 210353.7 -1532.8  
5911 7.8 210406.1 -1508.7  
5912 10. 210415.9 -1507.4  
5913 7.5 210420.3 -1535.3  
5914 9.5 210422.8 -1516.5  
5915 10. 210428.4 -1559.6

5916 9.6 210442.7 -1547.0  
5917 9.8 210456.7 -1522.5  
5918 9.8 210522.8 -1539.5  
5919 9.5 210523.5 -1550.9  
5920 9.8 210526.2 -1541.5  
5921 9.5 210535.8 -1544.0  
5922 8.3 210543.3 -1514.2  
5923 8.5 210545.3 -1554.4  
5924 10. 210551.7 -1555.0  
5925 9.8 210555.8 -1544.1

5926 9.3 210641.3 -1523.6  
5927 9.7 210649.3 -1516.5  
5928 9.0 210650.2 -1523.4  
5929 7.5 210708.3 -1543.5  
5930 9.7 210721.7 -1523.0  
5931 9.0 210722.8 -1519.0  
5932 8.8 210725.3 -1551.6  
5933 9.4 210726.3 -1519.9  
5934 8.5 210729.4 -1500.3  
5935 5.0 210742.3 -1546.0

5936 9.8 210753.9 -1555.0  
5937 9.3 210824.4 -1554.4  
5938 8.0 210834.3 -1525.0  
5939 8.4 210846.8 -1541.7  
5940 9.1 210852.0 -1504.9  
5941 9.9 210902.3 -1521.1  
5942 9.5 210930.5 -1528.4  
5943 9.8 210958.4 -1513.1  
5944 9.4 211021.4 -1553.9  
5945 9.1 211051.5 -1542.7

5946 9.8 211107.3 -1553.8  
5947 9.8 211117.2 -1509.6  
5948 9.7 211130.6 -1543.7  
5949 9.0 211133.4 -1500.0  
5950 9.4 211139.5 -1516.7  
5951 9.8 211207.9 -1501.2  
5952 9.8 211242.1 -1514.6  
5953 9.8 211243.3 -1540.4  
5954 9.5 211254.4 -1558.2  
5955 9.5 211306.0 -1500.1

5956 9.8 211316.6 -1515.9  
5957 9.4 211323.0 -1510.9  
5958 8.0 211328.5 -1545.9  
5959 9.0 211355.6 -1542.4  
5960 30.0 211358.9 -1546.7  
5961 9.3 211404.9 -1532.0  
5962 9.8 211407.5 -1512.0  
5963 8.0 211416.7 -1531.7  
5964 10. 211430.4 -1546.7  
5965 9.3 211433.4 -1523.4

5966 9.5 211442.3 -1540.5  
5967 9.5 211454.5 -1555.5  
5968 9.5 211454.7 -1534.3  
5969 9.8 211455.6 -1514.7  
5970 9.5 211456.0 -1531.0  
5971 9.1 211457.4 -1500.7  
5972 8.8 211511.0 -1526.6  
5973 9.5 211524.8 -1527.3  
5974 8.9 211533.9 -1539.3  
5975 9.5 211536.3 -1528.4

5976 9.7 211603.8 -1533.4  
5977 9.1 211607.3 -1555.9  
5978 9.8 211631.0 -1557.0  
5979 9.6 211654.6 -1512.0  
5980 9.5 211806.9 -1547.6  
5981 9.8 211818.8 -1522.9  
5982 9.1 211824.2 -1507.5  
5983 7.8 211826.9 -1552.0  
5984 9.5 211834.0 -1549.4  
5985 9.5 211917.1 -1538.8

5986 9.1 211922.1 -1548.0  
5987 9.1 211921.0 -1530.2  
5988 10. 211948.0 -1541.1  
5989 9.8 211959.2 -1559.4  
5990 8.5 212005.3 -1527.9  
5991 9.6 212013.2 -1502.8  
5992 8.6 212051.7 -1527.5  
5993 9.5 212052.6 -1551.9  
5994 9.5 212059.9 -1558.3  
5995 8.1 212157.8 -1547.4

5996 9.2 212221.4 -1528.2  
5997 8.7 212233.3 -1504.0  
5998 9.4 212308.8 -1539.3  
5999 9.4 212313.5 -1559.2  
6000 9.6 212317.4 -1551.6  
6001 10. 212352.0 -1516.0  
6002 9.4 212354.9 -1551.1  
6003 9.6 212404.5 -1526.6  
6004 9.1 212425.8 -1550.9  
6005 8.8 212443.1 -1506.6

6006 9.0 212503.8 -1557.3  
6007 9.4 212522.5 -1530.9  
6008 9.2 212555.8 -1532.9  
6009 9.2 212557.3 -1554.1  
6010 9.8 212604.2 -1539.9  
6011 9.6 212604.9 -1559.7  
6012 8.5 212636.5 -1516.3  
6013 9.8 212716.4 -1529.4  
6014 9.2 212716.7 -1515.0  
6015 10. 212748.5 -1502.5

6016 9.8 212761.5 -1511.7  
6017 9.3 212758.0 -1514.1  
6018 10. 212758.6 -1518.1  
6019 10. 212837.1 -1505.2  
6020 10. 212844.8 -1527.5  
6021 9.6 212848.2 -1554.6  
6022 10. 212850.6 -1558.3  
6023 9.8 212858.5 -1511.7  
6024 10. 212945.3 -1520.4  
6025 9.3 213000.5 -1537.6

6026 10. 213013.1 -1505.1  
6027 7.2 213016.3 -1523.4  
6028 9.7 213124.7 -1557.9  
6029 9.6 213136.1 -1535.5  
6030 9.1 213209.2 -1538.4  
6031 9.6 213215.0 -1554.9  
6032 10. 213221.1 -1527.2  
6033 8.5 213240.1 -1502.4  
6034 9.1 213248.1 -1521.4  
6035 9.4 213317.6 -1538.9

6036 10. 213330.2 -1505.3  
6037 7.2 213331.7 -1529.8  
6038 9.1 213353.5 -1545.2  
6039 9.8 213402.9 -1557.7  
6040 9.0 213411.3 -1516.8  
6041 9.4 213420.2 -1517.6  
6042 9.0 213439.2 -1526.0  
6043 8.8 213446.9 -1559.4  
6044 9.8 213500.4 -1524.0  
6045 9.3 213507.8 -1531.6

6046 6.2 213509.8 -1503.6  
6047 9.4 213510.7 -1513.4  
6048 9.1 213528.8 -1548.0  
6049 10. 213531.9 -1536.3  
6050 9.8 213543.3 -1507.0  
6051 9.8 213558.6 -1536.5  
6052 6.5 213605.1 -1524.5  
6053 9.4 213608.8 -1546.7  
6054 10. 213703.7 -1544.3  
6055 9.5 213720.3 -1538.5

6056 9.5 213725.2 -1552.8  
6057 9.5 213725.2 -1547.6  
6058 8.5 213752.4 -1547.6  
6059 9.1 213754.8 -1517.5  
6060 9.0 213813.4 -1554.2  
6061 8.8 213813.9 -1506.7  
6062 9.8 213909.9 -1537.4  
6063 9.5 213913.4 -1501.1  
6064 8.5 213914.9 -1521.4  
6065 7.7 213915.9 -1511.0

6066 9.2 213929.5 -1553.3  
6067 9.8 213942.8 -1512.5  
6068 9.4 213942.9 -1533.7  
6069 9.9 213953.9 -1543.9  
6070 10. 213954.2 -1546.1  
6071 9.8 214020.4 -1501.3  
6072 8.3 214039.1 -1556.1  
6073 9.5 214056.5 -1542.8  
6074 9.4 214116.9 -1538.0  
6075 7.5 214117.7 -1547.4

6076 9.3 214210.0 -1523.7  
6077 9.4 214259.6 -1547.5  
6078 8.8 214314.0 -1528.8  
6079 9.4 214336.7 -1525.3  
6080 9.2 214338.4 -1512.1  
6081 9.7 214353.1 -1506.2  
6082 9.8 214408.3 -1557.0  
6083 9.5 214425.8 -1529.9  
6084 9.8 214428.2 -1525.4  
6085 9.4 214458.8 -1521.6

6086 9.8 214521.6 -1555.3  
6087 8.2 214548.1 -1546.0  
6088 9.1 214554.6 -1518.9  
6089 9.8 214614.7 -1507.3  
6090 8.8 214649.1 -1516.3  
6091 10. 214655.5 -1503.9  
6092 7.0 214705.3 -1556.3  
6093 9.8 214706.9 -1519.0  
6094 9.8 214814.1 -1546.2  
6095 9.5 214831.3 -1549.9

6096 9.5 214838.0 -1543.9  
6097 10. 214839.8 -1504.7  
6098 9.8 214848.8 -1558.8  
6099 9.8 214849.4 -1516.3  
6100 9.1 214904.4 -1505.7  
6101 9.6 214905.7 -1548.3  
6102 9.4 214940.2 -1515.7  
6103 6.3 214953.9 -1548.8  
6104 8.6 215018.3 -1546.8  
6105 9.1 215021.0 -1559.0

6106 9.3 215029.8 -1516.0  
6107 8.8 215035.3 -1548.8  
6108 9.8 215108.8 -1510.4  
6109 8.9 215114.9 -1549.7  
6110 8.2 215117.7 -1512.2  
6111 8.2 215125.1 -1546.2  
6112 9.3 215125.2 -1529.1  
6113 9.8 215137.1 -1535.2  
6114 9.5 215144.2 -1556.8  
6115 9.5 215212.6 -1548.6

6116 9.6 215225.5 -1529.6  
6117 9.6 215228.4 -1520.9  
6118 9.7 215302.6 -1546.2  
6119 7.9 215335.2 -1501.4  
6120 9.6 215357.7 -1500.8  
6121 8.9 215417.2 -1540.0  
6122 10. 215422.1 -1552.1  
6123 10. 215423.2 -1508.2  
6124 9.8 215425.2 -1542.1  
6125 8.5 215426.4 -1502.4

6126 9.4 215444.4 -1533.3  
6127 9.6 215454.1 -1532.0  
6128 9.4 215530.9 -1523.7  
6129 8.1 215531.0 -1538.9  
6130 9.5 215543.2 -1539.5  
6131 10. 215547.4 -1553.9  
6132 10. 215636.7 -1554.1  
6133 7.5 215636.8 -1508.7  
6134 10. 215716.3 -1522.5  
6135 9.5 215730.7 -1556.2

6136 9.7 215731.4 -1504.8  
6137 9.1 215752.3 -1534.8  
6138 9.4 215807.5 -1520.9  
6139 6.8 215819.8 -1535.6  
6140 9.4 215839.5 -1507.7  
6141 9.1 215850.1 -1526.3  
6142 9.7 215943.1 -1529.2  
6143 7.0 215944.9 -1511.7  
6144 9.8 220022.2 -1510.4  
6145 9.4 220028.1 -1559.2

6146 9.8 220030.1 -1505.1  
6147 9.6 220031.1 -1557.7  
6148 9.8 220037.4 -1514.4  
6149 9.6 220038.5 -1519.1  
6150 8.7 220050.0 -1521.2  
6151 8.7 220151.9 -1516.6  
6152 8.7 220157.0 -1549.8  
6153 10. 220206.7 -1548.9  
6154 9.4 220207.2 -1539.3  
6155 9.3 220218.0 -1540.7

6156 9.0 220222.0 -1542.3  
6157 9.9 220312.9 -1533.5  
6158 9.1 220323.7 -1532.6  
6159 9.8 220339.3 -1508.3  
6160 9.8 220357.4 -1515.4  
6161 7.7 220429.6 -1541.2  
6162 9.1 220435.0 -1525.4  
6163 9.6 220459.1 -1541.7  
6164 9.1 220507.6 -1523.2  
6165 9.5 220534.3 -1556.6

6166 9.5 220537.8 -1543.5  
6167 9.2 220601.6 -1535.1  
6168 9.0 220601.7 -1539.2  
6169 7.3 220647.3 -1548.7  
6170 9.4 220701.7 -1536.8  
6171 9.3 220704.8 -1526.0  
6172 9.8 220720.3 -1542.2  
6173 9.6 220745.8 -1543.5  
6174 8.0 220812.4 -1509.1  
6175 9.1 220819.1 -1503.5

6176 9.5 220835.2 -1516.7  
6177 9.8 220830.2 -1527.8  
6178 8.3 220855.8 -1541.0  
6179 8.8 220906.3 -1553.7  
6180 7.2 220907.1 -1522.6  
6181 9.9 220932.7 -1511.6  
6182 10. 220933.0 -1521.6  
6183 9.4 220947.4 -1543.2  
6184 9.5 221001.6 -1529.7  
6185 8.5 221017.8 -1513.5

6186 9.8 221076.2 -1556.4  
6187 9.6 221035.0 -1548.7  
6188 8.5 221040.1 -1544.1  
6189 9.0 221046.3 -1521.5  
6190 9.4 221109.7 -1508.0  
6191 9.8 221113.2 -1526.6  
6192 9.0 221150.4 -1502.2  
6193 9.5 221206.2 -1507.7  
6194 9.8 221206.5 -1544.8  
6195 8.6 221220.3 -1529.8

6196 8.5 221242.0 -1516.9  
6197 8.0 221311.9 -1538.8  
6198 8.7 221328.5 -1542.1  
6199 10. 221344.8 -1525.0  
6200 8.0 221344.9 -1511.1  
6201 9.5 221349.4 -1537.2  
6202 9.0 221420.4 -1535.8  
6203 9.4 221428.7 -1519.8  
6204 9.5 221445.1 -1513.5  
6205 9.6 221500.1 -1546.9

6206 9.5 221502.4 -1512.2  
6207 9.3 221505.0 -1548.0  
6208 7.0 221533.3 -1540.2  
6209 9.0 221556.4 -1502.5  
6210 9.5 221609.9 -1512.8  
6211 9.0 221616.2 -1551.5  
6212 9.3 221619.1 -1538.4  
6213 9.4 221636.8 -1543.2  
6214 9.2 221636.9 -1559.7  
6215 9.4 221704.5 -1519.4



6216 9.5 221711.5 -1530.0  
 6217 9.5 221718.0 -1531.1  
 6218 9.8 221731.9 -1511.0  
 6219 9.7 221743.5 -1554.0  
 6220 9.7 221745.0 -1524.5  
 6221 8.0 221812.2 -1540.9  
 6222 9.4 221829.8 -1559.0  
 6223 9.5 221903.2 -1539.9  
 6224 9.5 221909.3 -1521.3  
 6225 9.4 221909.4 -1530.7

6226 9.6 221912.2 -1543.1  
 6227 9.8 222014.1 -1533.3  
 6228 9.0 222037.3 -1535.5  
 6229 9.5 222140.8 -1557.9  
 6230 8.8 222201.4 -1533.5  
 6231 6.8 222231.2 -1518.9  
 6232 9.0 222236.0 -1531.2  
 6233 9.0 222252.3 -1553.3  
 6234 8.0 222311.2 -1518.2  
 6235 9.1 222314.4 -1552.3

6236 9.8 222321.9 -1549.7  
 6237 9.8 222322.2 -1558.2  
 6238 9.8 222407.6 -1500.1  
 6239 9.8 222409.0 -1534.8  
 6240 8.8 222446.9 -1539.4  
 6241 9.2 222452.4 -1546.2  
 6242 9.3 222458.3 -1518.6  
 6243 8.5 222461.5 -1551.8  
 6244 9.4 222465.1 -1525.9  
 6245 9.1 222469.3 -1553.0

6246 9.4 222702.3 -1510.2  
 6247 9.4 222833.3 -1526.3  
 6248 8.9 222913.6 -1505.5  
 6249 9.0 222916.1 -1522.7  
 6250 9.1 222930.7 -1543.6  
 6251 9.3 223012.4 -1513.8  
 6252 9.1 223023.3 -1558.7  
 6253 9.8 223047.9 -1530.0  
 6254 9.3 223100.1 -1534.4  
 6255 9.3 223128.8 -1547.4

6256 9.5 223133.7 -1522.0  
 6257 7.8 223211.2 -1517.3  
 6258 8.3 223236.9 -1521.7  
 6259 9.4 223254.3 -1539.1  
 6260 10. 223342.4 -1540.7  
 6261 9.4 223522.1 -1502.7  
 6262 9.4 223526.0 -1543.5  
 6263 9.1 223526.3 -1503.5  
 6264 7.5 223634.2 -1522.0  
 6265 7.0 223637.7 -1525.9

6266 9.3 223641.7 -1528.1  
 6267 10. 223702.4 -1536.1  
 6268 10. 223711.3 -1539.8  
 6269 9.1 223714.3 -1534.1  
 6270 9.5 223723.2 -1516.0  
 6271 9.8 223804.3 -1515.2  
 6272 8.9 223821.5 -1517.9  
 6273 9.5 223919.1 -1548.3  
 6274 8.3 223949.2 -1553.5  
 6275 9.4 224011.6 -1540.6

6276 9.7 224023.6 -1515.8  
 6277 9.5 224057.5 -1550.6  
 6278 9.4 224110.4 -1511.6  
 6279 10. 224136.3 -1554.9  
 6280 9.4 224156.2 -1548.0  
 6281 9.2 224231.0 -1513.5  
 6282 8.6 224251.6 -1530.1  
 6283 9.3 224320.3 -1531.3  
 6284 9.8 224346.4 -1505.7  
 6285 8.8 224401.4 -1558.6

6286 9.0 224423.6 -1512.1  
 6287 9.8 224432.6 -1529.0  
 6288 9.4 224459.0 -1511.6  
 6289 9.4 224512.3 -1542.2  
 6290 9.5 224527.5 -1500.7  
 6291 9.9 224551.9 -1554.0  
 6292 9.2 224616.8 -1537.3  
 6293 9. 224622.4 -1547.4  
 6294 8.2 224643.4 -1547.1  
 6295 8.5 224649.0 -1535.5

6296 10. 224715.9 -1530.7  
 6297 9.4 224726.1 -1511.3  
 6298 9.0 224728.1 -1545.7  
 6299 9.5 224729.0 -1548.4  
 6300 9.7 224731.8 -1542.3  
 6301 9.4 224732.1 -1548.6  
 6302 9.4 224745.1 -1508.0  
 6303 9.4 224820.3 -1526.1  
 6304 9.4 224840.7 -1510.4  
 6305 8.0 224849.1 -1545.2

6306 9.0 224934.6 -1535.8  
 6307 9.3 224948.6 -1526.6  
 6308 8.7 225003.3 -1513.4  
 6309 9.1 225012.3 -1525.8  
 6310 8.5 225014.7 -1504.1  
 6311 10. 225030.9 -1546.8  
 6312 9.9 225118.8 -1511.5  
 6313 9.3 225133.9 -1516.2  
 6314 8.3 225153.2 -1500.5  
 6315 8.8 225207.3 -1502.1

6316 9.5 225230.2 -1538.4  
 6317 9.9 225239.3 -1501.0  
 6318 9.3 225247.8 -1534.3  
 6319 10. 225252.9 -1502.2  
 6320 9.0 225258.5 -1513.1  
 6321 8.2 225306.8 -1501.9  
 6322 9.8 225322.4 -1559.9  
 6323 9.8 225337.3 -1545.9  
 6324 10. 225344.4 -1510.6  
 6325 7.5 225345.8 -1503.0

6326 9.0 225347.4 -1559.1  
 6327 9.3 225403.2 -1539.2  
 6328 9.2 225416.6 -1524.4  
 6329 9.4 225423.8 -1547.6  
 6330 8.0 225429.8 -1544.9  
 6331 9.1 225451.6 -1538.4  
 6332 8.2 225504.9 -1502.3  
 6333 9.8 225513.8 -1531.2  
 6334 9.4 225515.0 -1506.9  
 6335 8.5 225522.4 -1553.5

6336 9.8 225533.5 -1526.3  
 6337 9.5 225644.0 -1526.4  
 6338 9.7 225647.7 -1536.9  
 6339 8.7 225707.2 -1522.4  
 6340 9.8 225753.7 -1546.9  
 6341 8.5 225754.1 -1550.0  
 6342 8.5 225756.6 -1510.7  
 6343 8.0 225818.2 -1513.4  
 6344 9.3 225821.0 -1542.2  
 6345 9.3 225821.6 -1547.1

6346 8.9 225858.9 -1539.0  
 6347 9.0 225900.0 -1523.5  
 6348 9.0 225905.5 -1544.8  
 6349 9.9 225917.5 -1504.5  
 6350 9.4 225952.9 -1524.9  
 6351 9.5 230006.9 -1532.8  
 6352 9.4 230008.7 -1528.1  
 6353 10. 230024.1 -1510.0  
 6354 10. 230055.7 -1534.4  
 6355 8.3 230059.7 -1549.4

6356 10. 230109.5 -1541.2  
 6357 9.5 230127.6 -1507.3  
 6358 9.2 230130.2 -1508.6  
 6359 9.1 230156.2 -1546.4  
 6360 6.5 230210.8 -1517.7  
 6361 8.9 230214.7 -1549.6  
 6362 9.2 230234.8 -1535.8  
 6363 9.4 230256.4 -1519.9  
 6364 9.9 230326.5 -1529.2  
 6365 8.4 230337.3 -1558.0

6366 9.3 230343.2 -1510.0  
 6367 9.3 230417.2 -1502.7  
 6368 10. 230435.4 -1501.8  
 6369 9.0 230511.3 -1547.6  
 6370 9.6 230525.4 -1524.1  
 6371 9.6 230558.8 -1543.7  
 6372 9.4 230612.9 -1510.8  
 6373 9.7 230628.4 -1510.3  
 6374 8.3 230705.6 -1514.2  
 6375 9.9 230720.7 -1548.0

6376 8.8 230722.6 -1556.0  
 6377 9.6 230722.8 -1549.5  
 6378 10. 230741.4 -1554.5  
 6379 9.5 230747.0 -1515.0  
 6380 8.5 230753.1 -1520.0  
 6381 9.9 230830.9 -1553.4  
 6382 9.8 230838.4 -1555.6  
 6383 8.9 230855.5 -1517.1  
 6384 9.7 230904.0 -1530.1  
 6385 9.4 230906.2 -1531.8

6386 9.6 230925.9 -1537.2  
 6387 9.8 231012.1 -1533.7  
 6388 9.8 231018.5 -1528.3  
 6389 9.7 231020.0 -1504.4  
 6390 9.1 231030.5 -1553.6  
 6391 8.6 231042.0 -1551.6  
 6392 9.7 231049.7 -1516.2  
 6393 9.5 231130.6 -1536.2  
 6394 8.5 231133.5 -1502.3  
 6395 9.0 231153.5 -1534.8

6396 10. 231204.9 -1558.7  
 6397 9.4 231205.6 -1558.6  
 6398 10. 231216.0 -1533.8  
 6399 9.7 231233.7 -1539.1  
 6400 8.0 231244.2 -1511.3  
 6401 9.8 231253.1 -1506.6  
 6402 9.8 231258.6 -1528.2  
 6403 10. 231325.0 -1543.2  
 6404 9.2 231417.0 -1530.1  
 6405 10. 231457.7 -1558.9

6406 5.3 231502.7 -1549.7  
 6407 9.5 231514.6 -1547.2  
 6408 9.0 231521.8 -1558.4  
 6409 9.4 231529.2 -1547.2  
 6410 10. 231534.6 -1529.4  
 6411 9.1 231602.9 -1516.2  
 6412 8.5 231605.3 -1517.1  
 6413 9.0 231628.7 -1544.5  
 6414 9.5 231706.7 -1502.4  
 6415 9.8 231744.7 -1540.9

6416 9.4 231819.3 -1509.6  
 6417 9.3 231820.5 -1500.4  
 6418 9.5 231841.9 -1558.2  
 6419 8.8 231843.5 -1530.6  
 6420 9.4 231857.4 -1534.5  
 6421 9.3 231859.5 -1518.6  
 6422 10. 231906.8 -1548.1  
 6423 8.9 231923.7 -1525.3  
 6424 9.5 231923.9 -1547.0  
 6425 9.0 231939.7 -1537.5

6426 9.5 231943.4 -1558.9  
 6427 9.1 231957.6 -1518.3  
 6428 9.5 232003.3 -1508.7  
 6429 9.2 232030.5 -1511.8  
 6430 9.7 232041.5 -1522.3  
 6431 9.9 232042.1 -1534.7  
 6432 9.1 232117.0 -1555.7  
 6433 8.6 232123.1 -1506.5  
 6434 9.0 232124.4 -1520.6  
 6435 9.5 232126.9 -1510.7

6436 9.6 232130.8 -1533.5  
 6437 9.7 232151.3 -1535.0  
 6438 9.8 232153.5 -1506.9  
 6439 9.7 232202.5 -1527.4  
 6440 9.3 232203.0 -1553.6  
 6441 9.8 232206.4 -1545.6  
 6442 9.4 232321.5 -1542.0  
 6443 8.3 232354.2 -1529.9  
 6444 7.9 232412.0 -1536.4  
 6445 9.7 232421.7 -1533.0

6446 7.8 232422.0 -1544.2  
 6447 9.3 232434.7 -1519.5  
 6448 9.4 232441.5 -1534.8  
 6449 9.4 232500.1 -1553.8  
 6450 9.3 232515.7 -1556.2  
 6451 8.9 232537.6 -1546.8  
 6452 9.1 232602.0 -1500.4  
 6453 9.5 232612.7 -1557.4  
 6454 9.0 232629.6 -1550.4  
 6455 8.0 232634.5 -1501.3

6456 9.8 232638.1 -1556.5  
 6457 9.2 232739.7 -1506.2  
 6458 9.4 232744.8 -1535.9  
 6459 9.1 232905.4 -1530.5  
 6460 9.6 232920.7 -1546.8  
 6461 9.8 232945.8 -1556.4  
 6462 8.5 232953.4 -1501.3  
 6463 9.6 233011.8 -1531.9  
 6464 6.5 233030.3 -1553.3  
 6465 8.5 233050.5 -1524.9

6466 9.9 233107.2 -1537.2  
 6467 9.3 233146.2 -1526.9  
 6468 9.7 233159.1 -1506.7  
 6469 9.7 233200.6 -1558.7  
 6470 9.7 233200.9 -1556.9  
 6471 5.3 233214.7 -1501.3  
 6472 9.3 233319.5 -1557.0  
 6473 10. 233322.3 -1537.2  
 6474 9.5 233338.1 -1521.9  
 6475 9.0 233423.9 -1548.0

6476 4.8 233512.5 -1520.6  
 6477 8.7 233525.2 -1523.0  
 6478 9.7 233539.4 -1528.3  
 6479 9.3 233544.3 -1552.9  
 6480 9.0 233546.9 -1523.6  
 6481 9.4 233600.1 -1517.7  
 6482 10. 233612.4 -1529.9  
 6483 10. 233649.6 -1513.8  
 6484 9.5 233650.1 -1520.4  
 6485 9.0 233653.5 -1546.7

6486 9.1 233657.3 -1527.5  
 6487 8.1 233659.1 -1513.6  
 6488 9.6 233719.4 -1530.4  
 6489 9.7 233720.5 -1539.3  
 6490 10. 233738.3 -1531.0  
 6491 7.8 233822.4 -1533.6  
 6492 9.4 233823.7 -1510.0  
 6493 9.8 233825.9 -1526.0  
 6494 8.3 233832.7 -1556.2  
 6495 9.0 233841.2 -1517.8

6496 9.5 233900.7 -1557.1  
 6497 9.1 233955.3 -1521.7  
 6498 9.5 234038.3 -1523.6  
 6499 10. 234100.8 -1557.8  
 6500 8.6 234106.3 -1539.6  
 6501 8.8 234111.9 -1543.5  
 6502 9.0 234111.9 -1535.1  
 6503 8.4 234228.3 -1508.7  
 6504 9.5 234239.8 -1506.0  
 6505 7.3 234258.4 -1523.1

6506 7.5 234259.0 -1547.1  
 6507 6.0 234304.8 -1512.3  
 6508 9.1 234307.4 -1516.8  
 6509 9.5 234338.4 -1549.6  
 6510 9.5 234408.3 -1515.4  
 6511 9.1 234412.2 -1538.2  
 6512 10. 234446.0 -1511.1  
 6513 10. 234447.9 -1554.2  
 6514 9.6 234450.8 -1505.1  
 6515 6.2 234503.5 -1503.4

6516 9.8 234514.7 -1532.1  
 6517 9.5 234520.3 -1525.8  
 6518 9.2 234541.0 -1525.2  
 6519 9.5 234626.8 -1503.6  
 6520 9.5 234759.6 -1523.3  
 6521 8.5 234802.4 -1539.2  
 6522 9.3 234804.3 -1524.7  
 6523 9.1 234905.7 -1533.8  
 6524 8.8 235031.0 -1529.3  
 6525 10. 235122.2 -1558.0

6526 9.5 235216.1 -1508.2  
 6527 9.0 235235.0 -1537.3  
 6528 8.5 235256.8 -1517.8  
 6529 9.1 235430.7 -1547.1  
 6530 9.5 235437.9 -1559.9  
 6531 8.4 235441.7 -1529.5  
 6532 8.3 235522.3 -1550.8  
 6533 9.6 235611.2 -1540.6  
 6534 9.0 235639.9 -1554.8  
 6535 9.5 235641.5 -1559.0

6536 9.1 235648.8 -1543.6  
 6537 9.0 235755.4 -1552.0  
 6538 9.5 235800.5 -1524.6  
 6539 7.3 235801.4 -1513.7  
 6540 9.4 235803.6 -1526.9  
 6541 8.8 235818.9 -1544.9  
 6542 9.0 235829.9 -1514.3  
 6543 9.5 235836.2 -1557.4  
 6544 9.3 235845.7 -1502.5  
 6545 9.5 235946.4 -1542.1

1 10. 00016.4 -1602.0  
 2 9.0 00026.2 -1608.2  
 3 10. 00032.6 -1601.6  
 4 9.6 00034.2 -1608.0  
 5 9.5 00042.7 -1649.7  
 6 8.9 00046.3 -1630.0  
 7 9.5 00053.9 -1646.5  
 8 9.5 00124.2 -1615.5  
 9 10. 00136.2 -1614.1  
 10 10. 00200.3 -1621.2

11 9.0 00209.9 -1631.3  
 12 9.0 00212.7 -1606.7  
 13 9.6 00225.4 -1637.8  
 14 10. 00249.5 -1648.7  
 15 9.0 00331.1 -1600.8  
 16 10. 00334.7 -1609.5  
 17 5.2 00352.5 -1615.7  
 18 9.5 00417.0 -1644.2  
 19 9.8 00438.6 -1648.4  
 20 8.6 00443.1 -1638.8

21 9.2 00446.8 -1600.1  
 22 10. 00459.3 -1602.1  
 23 9.0 00505.9 -1622.9  
 24 9.3 00522.3 -1601.8  
 25 9.0 00527.4 -1619.7  
 26 10. 00547.5 -1620.4  
 27 9.8 00558.6 -1648.4  
 28 8.9 00559.4 -1617.7  
 29 9.1 00612.0 -1630.8  
 30 9.4 00619.2 -1648.0



31 9.5 00630.9 -1641.1  
32 9.3 00637.5 -1652.7  
33 9.5 00702.6 -1622.8  
34 9.0 00722.6 -1641.8  
35 9.4 00723.4 -1602.2  
36 9.6 00735.1 -1656.3  
37 8.3 00737.7 -1651.8  
38 9.1 00804.6 -1625.5  
39 10. 00842.1 -1621.9  
40 8.9 00930.8 -1616.6

41 9.1 00946.2 -1628.1  
42 10. 00950.9 -1634.3  
43 9.5 01057.8 -1610.8  
44 10. 01126.8 -1651.1  
45 8.8 01136.9 -1647.8  
46 9.8 01157.3 -1657.7  
47 9.2 01221.2 -1602.4  
48 9.0 01231.4 -1629.6  
49 8.3 01257.3 -1622.1  
50 10. 01323.0 -1648.0

51 8.4 01323.8 -1627.8  
52 8.7 01339.5 -1655.4  
53 10. 01403.9 -1625.0  
54 10. 01413.5 -1638.5  
55 9.8 01415.9 -1629.5  
56 9.4 01432.7 -1602.8  
57 8.8 01537.5 -1640.6  
58 6.7 01542.6 -1644.6  
59 9.5 01545.9 -1628.3  
60 9.5 01622.9 -1633.8

61 8.5 01717.4 -1632.9  
62 9.8 01730.4 -1605.9  
63 8.2 01733.6 -1650.1  
64 9.0 01744.1 -1615.0  
65 8.7 01810.3 -1655.9  
66 9.8 01813.7 -1618.5  
67 9.0 01817.5 -1635.8  
68 9.0 01846.0 -1630.0  
69 9.7 01914.9 -1612.5  
70 9.2 01923.0 -1623.9

71 9.3 01934.5 -1604.7  
72 9.8 01935.8 -1639.3  
73 9.4 01958.6 -1635.3  
74 9.4 02006.1 -1620.4  
75 8.5 02015.4 -1615.3  
76 10. 02114.8 -1648.2  
77 9.5 02206.1 -1628.0  
78 9.5 02231.6 -1616.2  
79 10. 02248.2 -1630.4  
80 9.8 02302.2 -1635.6

81 8.0 02306.3 -1643.0  
82 9.0 02325.2 -1632.5  
83 9.3 02359.2 -1616.7  
84 9.9 02406.2 -1624.6  
85 9.1 02423.0 -1635.5  
86 10. 02455.7 -1606.4  
87 10. 02519.8 -1633.1  
88 10. 02538.3 -1629.5  
89 9.2 02556.0 -1646.3  
90 9.8 02620.2 -1617.5

91 10. 02621.3 -1612.6  
92 9.3 02625.0 -1620.7  
93 9.5 02626.6 -1636.2  
94 9.8 02639.0 -1652.5  
95 9.3 02650.0 -1639.8  
96 9.5 02702.9 -1646.4  
97 10. 02805.2 -1636.5  
98 8.9 02806.6 -1653.2  
99 9.8 02808.4 -1627.5  
100 9.9 02824.4 -1628.0

101 9.0 02835.3 -1646.3  
102 8.8 02839.1 -1616.1  
103 9.5 02919.6 -1653.7  
104 9.8 02924.7 -1659.3  
105 8.7 03016.1 -1637.3  
106 9.1 03021.5 -1619.2  
107 10. 03112.4 -1626.7  
108 10. 03125.0 -1654.8  
109 8.5 03126.0 -1627.8  
110 10. 03235.6 -1624.1

111 9.4 03249.8 -1655.7  
112 9.2 03257.1 -1632.7  
113 9.5 03300.5 -1609.5  
114 9.1 03307.6 -1603.5  
115 8.9 03323.9 -1607.4  
116 9.5 03407.3 -1650.8  
117 9.0 03451.9 -1609.4  
118 9.6 03509.5 -1622.3  
119 8.7 03531.6 -1655.6  
120 9.1 03541.7 -1650.8

121 9.5 03546.2 -1635.2  
122 9.2 03558.0 -1651.2  
123 9.4 03607.3 -1631.3  
124 9.6 03647.5 -1620.9  
125 9.5 03702.8 -1632.8  
126 8.8 03726.4 -1611.0  
127 10. 03803.3 -1632.7  
128 9.2 03837.6 -1626.6  
129 9.4 03846.7 -1607.6  
130 8.8 03935.5 -1646.7

131 9.2 03936.2 -1634.3  
132 9.0 03949.2 -1610.2  
133 10. 04002.4 -1628.9  
134 9.6 04002.9 -1604.4  
135 10. 04007.6 -1610.6  
136 10. 04102.1 -1659.7  
137 8.5 04224.0 -1611.0  
138 10. 04232.0 -1620.5  
139 8.7 04243.8 -1657.6  
140 9.3 04255.7 -1640.8

141 9.7 04257.8 -1614.1  
142 8.0 04302.9 -1640.3  
143 10. 04320.7 -1658.5  
144 9.0 04348.7 -1655.7  
145 9.9 04428.5 -1603.7  
146 9.1 04448.5 -1619.2  
147 9.8 04449.6 -1656.4  
148 8.3 04456.0 -1607.2  
149 10. 04536.1 -1626.7  
150 10. 04604.0 -1614.7

151 9.0 04627.2 -1626.3  
152 8.0 04653.2 -1657.6  
153 8.9 04722.7 -1614.4  
154 9.5 04859.0 -1629.1  
155 9.4 04902.6 -1609.1  
156 10. 04919.7 -1612.7  
157 9.8 04923.0 -1651.1  
158 9.2 04930.4 -1634.1  
159 8.3 05004.6 -1647.7  
160 9.2 05023.1 -1655.4

161 7.8 05030.4 -1634.0  
162 7.3 05057.3 -1627.8  
163 9.2 05101.7 -1615.0  
164 9.8 05213.9 -1617.3  
165 10. 05307.3 -1601.4  
166 9.7 05433.8 -1605.0  
167 9.7 05436.9 -1635.7  
168 10. 05449.3 -1602.1  
169 9.7 05515.4 -1605.7  
170 8.5 05517.8 -1655.3

171 8.5 05610.7 -1613.4  
172 9.9 05617.0 -1638.2  
173 9.2 05643.3 -1610.4  
174 9.3 05709.6 -1649.2  
175 10. 05804.0 -1632.8  
176 10. 05804.8 -1605.8  
177 7.0 05933.8 -1616.8  
178 10. 05936.4 -1632.0  
179 9.5 05951.3 -1648.7  
180 9.8 05956.3 -1657.8

181 9.4 10011.7 -1658.5  
182 9.3 10024.0 -1658.3  
183 8.6 10032.8 -1643.3  
184 9.8 10040.8 -1630.5  
185 9.1 10054.5 -1650.7  
186 10. 10104.1 -1625.3  
187 9.2 10145.0 -1624.6  
188 9.4 10217.9 -1649.2  
189 9.2 10248.3 -1613.9  
190 9.2 10325.9 -1640.4

191 8.3 10351.7 -1628.5  
192 9.5 10412.7 -1609.4  
193 9.4 10429.8 -1604.2  
194 9.8 10436.1 -1620.4  
195 8.8 10444.0 -1650.0  
196 8.6 10453.9 -1627.9  
197 9.3 10456.5 -1649.3  
198 9.5 10539.0 -1640.5  
199 9.1 10635.3 -1624.1  
200 8.0 10638.8 -1606.2

201 9.0 10704.2 -1644.5  
202 10. 10721.2 -1616.7  
203 9.7 10727.1 -1651.5  
204 9.8 10730.7 -1603.1  
205 9.9 10742.8 -1621.6  
206 7.0 10744.4 -1634.8  
207 10. 10838.7 -1648.8  
208 9.3 10849.0 -1620.6  
209 9.3 10857.6 -1641.4  
210 9.8 10911.8 -1610.0

211 10. 10952.2 -1612.5  
212 10. 10943.7 -1652.3  
213 8.6 11009.9 -1623.5  
214 9.0 11023.6 -1615.2  
215 9.2 11030.7 -1634.3  
216 9.6 11104.3 -1644.3  
217 9.8 11140.4 -1654.4  
218 9.2 11204.5 -1615.3  
219 10. 11219.6 -1609.1  
220 9.8 11221.0 -1621.3

221 9.5 11224.6 -1628.5  
222 9.1 11242.7 -1612.6  
223 6.3 11250.2 -1634.3  
224 9.0 11330.2 -1657.0  
225 9.2 11400.5 -1622.5  
226 8.6 11410.1 -1606.7  
227 10. 11451.7 -1635.7  
228 10. 11453.3 -1645.2  
229 9.6 11500.2 -1616.3  
230 9.4 11618.5 -1601.1

231 9.1 11620.1 -1627.0  
232 8.1 11627.0 -1659.3  
233 9.5 11636.5 -1629.6  
234 10. 11653.8 -1659.0  
235 9.5 11717.6 -1647.1  
236 10. 11719.5 -1644.0  
237 6.0 11733.2 -1624.8  
238 10. 11734.7 -1600.9  
239 10. 11746.0 -1619.7  
240 9.8 11810.5 -1600.0

241 9.5 11906.5 -1638.7  
242 9.5 11932.6 -1651.9  
243 10. 11947.8 -1626.1  
244 10. 12054.5 -1641.1  
245 9.0 12059.2 -1657.1  
246 9.5 12113.4 -1611.8  
247 8.3 12119.1 -1639.0  
248 8.8 12153.6 -1637.7  
249 10. 12208.4 -1646.0  
250 8.0 12225.3 -1652.7

251 10. 12226.7 -1645.8  
252 9.5 12244.0 -1605.7  
253 7.5 12253.0 -1628.6  
254 9.5 12324.5 -1612.7  
255 9.8 12340.3 -1606.5  
256 9.5 12401.9 -1653.5  
257 9.3 12455.4 -1649.0  
258 10. 12507.8 -1646.3  
259 8.2 12526.4 -1611.7  
260 7.8 12533.7 -1653.5

261 9.9 12625.0 -167.8  
262 9.1 12708.1 -1655.5  
263 9.3 12717.5 -1601.2  
264 9.5 12732.3 -1636.8  
265 5.8 12732.6 -1625.0  
266 9.2 12804.8 -1654.8  
267 9.6 12820.2 -1607.5  
268 9.3 12825.2 -1645.5  
269 9.3 12843.8 -1631.4  
270 5.8 12853.9 -1608.3

271 9.4 12900.9 -1609.7  
272 9.2 12903.7 -1625.3  
273 8.2 12917.0 -1645.5  
274 9.7 12959.1 -1650.8  
275 8.7 13001.1 -1615.7  
276 9.8 13004.0 -1643.7  
277 8.9 13004.8 -1619.7  
278 8.0 13024.5 -1644.1  
279 7.3 13121.9 -1636.8  
280 8.0 13122.8 -1611.9

281 9.5 13138.7 -1607.0  
282 10. 13204.6 -1630.1  
283 8.5 13214.5 -1643.6  
284 10. 13232.3 -1612.0  
285 9.7 13248.7 -1643.8  
286 9.2 13327.2 -1651.0  
287 9.7 13413.3 -1658.8  
288 9.7 13423.3 -1620.4  
289 9.5 13427.5 -1637.0  
290 9.5 13512.7 -1643.1

291 9.5 13538.6 -1629.2  
292 9.1 13603.1 -1627.6  
293 9.5 13646.5 -1609.4  
294 9.9 13652.8 -1628.1  
295 3.0 13716.2 -1641.8  
296 10. 13731.2 -1601.5  
297 9.5 13737.9 -1647.5  
298 9.5 13740.7 -1626.4  
299 9.5 13750.6 -1625.0  
300 9.5 13753.6 -1624.2

301 8.2 13812.8 -1637.0  
302 9.7 13830.0 -1648.2  
303 9.1 13917.4 -1603.0  
304 10. 13925.7 -1626.2  
305 9.8 14041.4 -1634.0  
306 9.4 14057.7 -1603.3  
307 9.4 14127.1 -1616.0  
308 8.9 14143.7 -1612.2  
309 8.8 14155.2 -1609.0  
310 8.5 14203.7 -1617.9

311 9.4 14214.0 -1618.2  
312 9.0 14223.3 -1622.6  
313 9.4 14225.7 -1655.7  
314 8.5 14300.4 -1629.7  
315 10. 14309.1 -1626.1  
316 9.1 14325.3 -1650.3  
317 8.7 14327.2 -1654.9  
318 9.5 14422.7 -1617.0  
319 8.8 14423.9 -1638.5  
320 9.0 14427.3 -1610.6

321 9.8 14444.9 -1630.4  
322 6.9 14445.6 -1621.9  
323 9.8 14526.8 -1640.9  
324 9.9 14531.6 -1641.0  
325 9.6 14621.5 -1649.0  
326 10. 14630.7 -1637.5  
327 8.7 14701.6 -1642.2  
328 9.0 14719.4 -1626.1  
329 9.3 14722.2 -1626.1  
330 9.3 14747.4 -1613.1

331 8.3 14809.6 -1602.6  
332 8.8 14814.4 -1614.9  
333 9.9 14823.2 -1640.9  
334 9.5 14830.1 -1637.4  
335 9.8 14837.3 -1618.7  
336 9.6 14838.7 -1604.0  
337 9.0 14910.0 -1628.8  
338 9.3 14952.9 -1605.2  
339 9.1 15014.8 -1638.0  
340 7.8 15047.4 -1650.2

341 8.6 15129.3 -1607.5  
342 9.1 15242.3 -1602.3  
343 9.5 15248.5 -1618.7  
344 9.3 15255.1 -1615.2  
345 9.8 15350.0 -1650.5  
346 9.6 15358.6 -1621.6  
347 9.9 15402.1 -1622.7  
348 10. 15423.6 -1651.5  
349 9.9 15425.3 -1602.7  
350 9.5 15434.7 -1655.0

351 9.5 15439.5 -1652.3  
352 9.2 15440.6 -1655.7  
353 9.7 15452.7 -1617.0  
354 9.6 15518.4 -1641.1  
355 8.5 15533.9 -1618.8  
356 6.2 15559.6 -1601.2  
357 9.7 15631.7 -1651.3  
358 8.7 15636.0 -1610.8  
359 9.1 15639.0 -1641.0  
360 9.4 15729.5 -1638.0

361 9.8 15733.8 -1639.1  
362 7.5 15734.0 -1654.7  
363 9.4 15738.7 -1625.6  
364 8.5 15743.7 -1659.3  
365 7.8 15801.8 -1622.2  
366 9.4 15836.2 -1618.3  
367 9.4 15844.1 -1628.0  
368 9.6 15858.6 -1641.0  
369 9.4 15920.3 -1658.2  
370 7.0 15922.1 -1608.3

371 9.1 15924.3 -1656.1  
372 9.4 15934.7 -1653.7  
373 8.9 15946.5 -1601.5  
374 7.8 15959.5 -1624.0  
375 9.6 20011.1 -1615.7  
376 8.5 20048.9 -1602.2  
377 9.8 20103.2 -1619.6  
378 9.2 20103.5 -1600.4  
379 8.0 20159.2 -1642.2  
380 9.8 20232.1 -1659.1

381 9.9 20233.4 -1636.4  
382 7.5 20240.6 -1648.7  
383 9.5 20302.7 -1647.1  
384 9.2 20303.2 -1632.4  
385 9.6 20310.6 -1646.3  
386 9.3 20336.6 -1648.4  
387 10. 20337.3 -1648.0  
388 9.2 20357.2 -1602.8  
389 8.2 20359.9 -1600.0  
390 10. 20407.9 -1635.2



391 9.9 20410.0 -1639.0  
 392 10. 20426.7 -1652.9  
 393 10. 20442.2 -1647.4  
 394 9.4 20503.8 -1658.0  
 395 9.5 20526.1 -1611.5  
 396 9.6 20628.8 -1621.4  
 397 9.3 20702.4 -1619.8  
 398 8.5 20703.1 -1639.9  
 399 9.4 20721.9 -1625.7  
 400 9.8 20727.7 -1640.1

401 10. 20727.9 -1649.0  
 402 9.8 20812.6 -1639.8  
 403 9.5 20813.3 -1635.9  
 404 9.3 20819.7 -1654.0  
 405 9.8 20826.9 -1626.7  
 406 8.9 20827.2 -1644.5  
 407 8.0 20833.1 -1628.7  
 408 9.1 20848.2 -1640.7  
 409 8.5 20855.0 -1633.5  
 410 9.3 20856.5 -1600.8

411 9.8 20913.9 -1625.6  
 412 9.4 20936.7 -1614.6  
 413 9.8 20938.5 -1645.1  
 414 8.3 20948.0 -1657.1  
 415 8.8 21002.4 -1659.8  
 416 8.6 21002.9 -1636.7  
 417 9.0 21007.3 -1609.2  
 418 9.9 21009.8 -1615.2  
 419 9.8 21020.4 -1618.1  
 420 9.8 21031.9 -1635.5

421 8.5 21105.6 -1634.7  
 422 9.1 21110.4 -1611.8  
 423 9.5 21152.7 -1617.2  
 424 10. 21204.2 -1630.0  
 425 9.6 21223.8 -1616.1  
 426 9.5 21242.3 -1638.0  
 427 9.9 21250.0 -1620.0  
 428 10. 21340.0 -1617.1  
 429 9.6 21344.6 -1654.3  
 430 9.6 21404.5 -1649.1

431 9.9 21408.4 -1645.5  
 432 8.0 21444.3 -1626.0  
 433 9.5 21549.1 -1653.8  
 434 9.5 21550.4 -1644.6  
 435 9.0 21604.6 -1612.1  
 436 9.5 21642.2 -1624.2  
 437 9.1 21703.4 -1631.8  
 438 6.4 21717.1 -1654.9  
 439 10. 21723.8 -1655.0  
 440 9.6 21823.9 -1622.2

441 9.6 21825.2 -1647.3  
 442 9.5 21922.8 -1651.3  
 443 9.5 21945.4 -1622.0  
 444 9.4 22010.3 -1606.7  
 445 9.8 22055.1 -1641.2  
 446 9.8 22123.3 -1650.6  
 447 9.8 22127.4 -1620.9  
 448 9.0 22203.8 -1633.1  
 449 10. 22220.2 -1602.6  
 450 8.6 22240.7 -1642.7

451 9.5 22309.1 -1614.4  
 452 8.6 22328.4 -1653.1  
 453 9.4 22348.0 -1622.6  
 454 9.0 22355.9 -1648.5  
 455 9.0 22442.8 -1621.7  
 456 9.5 22446.0 -1602.5  
 457 9.0 22529.5 -1610.7  
 458 9.1 22535.7 -1633.0  
 459 9.4 22550.5 -1655.6  
 460 8.3 22612.8 -1641.1

461 8.0 22711.4 -1646.2  
 462 9.1 22729.2 -1645.5  
 463 10. 22745.5 -1646.7  
 464 9.6 22746.7 -1625.6  
 465 8.5 22812.7 -1613.5  
 466 9.0 22828.8 -1633.0  
 467 9.0 22902.0 -1646.4  
 468 9.3 22916.2 -1622.4  
 469 10. 22921.9 -1642.7  
 470 8.7 23042.6 -1649.7

471 9.4 23050.1 -1618.5  
 472 9.8 23114.6 -1607.5  
 473 9.5 23140.4 -1655.2  
 474 9.8 23142.2 -1633.8  
 475 9.2 23153.9 -1655.0  
 476 9.4 23217.5 -1622.0  
 477 9.8 23227.1 -1617.3  
 478 9.4 23230.4 -1617.3  
 479 9.2 23238.8 -1625.7  
 480 9.0 23243.6 -1649.1

481 9.2 23246.0 -1620.4  
 482 9.6 23300.2 -1653.7  
 483 8.0 23310.5 -1643.4  
 484 6.9 23311.2 -1656.2  
 485 9.4 23318.6 -1607.0  
 486 9.8 23333.1 -1631.6  
 487 9.1 23347.6 -1656.1  
 488 9.4 23354.8 -1645.0  
 489 9.0 23433.8 -1607.3  
 490 9.0 23444.0 -1640.9

491 9.1 23503.7 -1647.4  
 492 7.5 23528.5 -1628.2  
 493 9.4 23553.5 -1632.7  
 494 9.8 23706.9 -1658.9  
 495 8.3 23708.9 -1624.3  
 496 9.4 23727.3 -1606.5  
 497 9.0 23745.9 -1658.3  
 498 7.3 23821.8 -1601.7  
 499 9.7 23834.9 -1612.6  
 500 9.8 23900.2 -1656.3

501 9.5 23922.8 -1646.7  
 502 8.3 24027.1 -1635.0  
 503 9.5 24032.8 -1612.0  
 504 9.8 24105.5 -1639.8  
 505 9.5 24205.5 -1656.9  
 506 10. 24210.4 -1642.2  
 507 9.8 24228.7 -1649.9  
 508 9.4 24231.9 -1609.0  
 509 9.0 24231.9 -1644.6  
 510 8.5 24353.3 -1642.9

511 10. 24401.2 -1629.3  
 512 10. 24402.4 -1648.1  
 513 8.8 24410.7 -1605.9  
 514 9.6 24415.9 -1646.0  
 515 9.8 24423.0 -1604.7  
 516 9.5 24426.8 -1659.6  
 517 9.4 24440.9 -1602.1  
 518 9.4 24446.7 -1632.4  
 519 10. 24448.0 -1618.1  
 520 9.4 24507.6 -1625.0

521 10. 24549.1 -1617.4  
 522 10. 24600.2 -1630.6  
 523 9.2 24638.8 -1630.4  
 524 9.0 24648.0 -1605.4  
 525 8.9 24655.6 -1638.7  
 526 10. 24656.6 -1630.0  
 527 9.2 24659.6 -1639.2  
 528 10. 24733.9 -1638.6  
 529 9.5 24748.2 -1658.0  
 530 9.0 24811.3 -1629.9

531 9.5 24820.5 -1638.1  
 532 9.2 24907.9 -1639.0  
 533 10. 24956.7 -1655.3  
 534 9.4 25012.3 -1618.5  
 535 9.5 25032.0 -1600.5  
 536 9.8 25046.3 -1612.8  
 537 9.4 25052.1 -1602.4  
 538 7.6 25113.8 -1625.6  
 539 9.0 25140.3 -1622.6  
 540 9.5 25216.9 -1611.7

541 9.5 25226.2 -1607.0  
 542 9.5 25317.1 -1650.5  
 543 8.0 25318.0 -1638.9  
 544 9.8 25400.3 -1619.3  
 545 9.8 25435.8 -1633.0  
 546 9.5 25441.1 -1634.1  
 547 10. 25547.0 -1618.2  
 548 9.4 25547.3 -1655.1  
 549 9.1 25607.9 -1628.5  
 550 9.3 25626.9 -1620.5

551 9.8 25644.4 -1650.9  
 552 10. 25701.3 -1649.1  
 553 9.3 25712.2 -1613.4  
 554 9.7 25731.4 -1619.7  
 555 9.5 25748.7 -1623.7  
 556 9.2 25755.2 -1601.4  
 557 10. 25825.5 -1643.1  
 558 9.7 25831.4 -1618.0  
 559 10. 25929.8 -1630.9  
 560 9.5 25930.7 -1635.6

561 7.8 25941.4 -1644.2  
 562 9.1 25959.9 -1652.9  
 563 9.2 30000.8 -1638.6  
 564 9.2 30005.4 -1610.8  
 565 9.5 30008.7 -1600.9  
 566 8.8 30020.0 -1653.7  
 567 9.4 30023.0 -1618.0  
 568 9.5 30024.1 -1622.4  
 569 9.9 30040.9 -1647.2  
 570 9.8 30128.8 -1618.7

571 10. 30139.4 -1630.9  
 572 9.0 30211.2 -1635.1  
 573 9.2 30235.5 -1614.3  
 574 8.5 30233.8 -1654.3  
 575 9.3 30254.4 -1604.4  
 576 9.4 30255.2 -1605.2  
 577 9.8 30317.3 -1601.9  
 578 9.1 30320.5 -1614.3  
 579 9.8 30321.2 -1626.5  
 580 8.8 30337.1 -1651.4

581 8.9 30340.3 -1614.2  
 582 9.4 30347.3 -1631.8  
 583 9.4 30348.0 -1652.5  
 584 9.5 30350.8 -1633.4  
 585 9.5 30409.2 -1623.7  
 586 8.3 30430.4 -1617.6  
 587 6.3 30432.3 -1634.1  
 588 9.5 30448.1 -1611.6  
 589 10. 30528.9 -1607.8  
 590 7.8 30530.8 -1636.4

591 9.5 30545.0 -1608.2  
 592 9.8 30552.4 -1650.3  
 593 8.4 30553.1 -1631.7  
 594 10. 30558.0 -1653.6  
 595 10. 30629.6 -1644.4  
 596 9.4 30712.9 -1605.2  
 597 9.8 30717.3 -1653.2  
 598 9.1 30723.5 -1623.7  
 599 10. 30732.7 -1621.1  
 600 9.0 30810.8 -1610.8

601 10. 30823.1 -1606.2  
 602 10. 30920.0 -1632.7  
 603 9.1 30933.1 -1640.0  
 604 9.3 31007.6 -1618.1  
 605 8.8 31030.2 -1651.3  
 606 8.3 31031.5 -1636.3  
 607 9.8 31048.5 -1616.9  
 608 9.8 31049.5 -1634.5  
 609 9.5 31056.6 -1607.5  
 610 8.8 31111.6 -1602.5

611 9.2 31116.6 -1656.1  
 612 9.8 31126.1 -1643.6  
 613 9.7 31200.4 -1658.5  
 614 7.0 31204.7 -1604.9  
 615 9.0 31221.4 -1656.4  
 616 9.5 31356.1 -1655.4  
 617 8.5 31359.5 -1646.7  
 618 9.5 31420.9 -1655.2  
 619 9.7 31428.8 -1646.3  
 620 8.3 31443.4 -1619.1

621 8.8 31511.4 -1654.8  
 622 9.5 31527.0 -1625.0  
 623 9.5 31531.0 -1626.7  
 624 9.1 31534.3 -1615.8  
 625 9.0 31549.0 -1630.6  
 626 9.9 31612.9 -1600.6  
 627 10. 31637.8 -1611.0  
 628 8.3 31647.4 -1647.3  
 629 9.2 31722.3 -1620.8  
 630 6.7 31739.3 -1610.1

631 9.1 31756.4 -1644.0  
 632 9.5 31757.7 -1650.3  
 633 9.2 31928.4 -1609.7  
 634 9.6 31941.9 -1606.9  
 635 9.0 31951.2 -1617.1  
 636 8.9 31951.9 -1632.0  
 637 10. 31952.0 -1652.6  
 638 9.0 31953.4 -1644.0  
 639 10. 32051.2 -1632.9  
 640 9.8 32115.3 -1608.2

641 9.3 32158.2 -1634.4  
 642 8.9 32158.3 -1641.8  
 643 10. 32200.0 -1615.6  
 644 9.5 32210.2 -1643.1  
 645 9.3 32315.9 -1607.1  
 646 9.8 32323.7 -1620.7  
 647 9.5 32336.3 -1601.8  
 648 8.7 32349.5 -1621.3  
 649 9.3 32356.9 -1621.6  
 650 8.3 32410.4 -1603.3

651 9.1 32423.3 -1657.7  
 652 8.8 32511.2 -1610.4  
 653 9.5 32535.0 -1633.8  
 654 9.8 32610.5 -1631.7  
 655 9.8 32611.0 -1646.8  
 656 8.5 32630.6 -1602.3  
 657 9.0 32723.3 -1618.9  
 658 9.2 32741.4 -1605.7  
 659 9.8 32742.8 -1626.5  
 660 9.1 32756.4 -1642.7

661 10. 32801.2 -1634.6  
 662 8.4 32802.0 -1643.4  
 663 8.5 32815.7 -1633.4  
 664 9.5 32820.2 -1627.9  
 665 9.5 32834.2 -1630.7  
 666 9.7 32843.3 -1630.1  
 667 9.3 32909.3 -1620.3  
 668 9.3 32916.2 -1620.5  
 669 9.5 32929.1 -1645.8  
 670 9.2 33044.1 -1619.8

671 9.5 33052.1 -1649.4  
 672 9.8 33112.9 -1623.9  
 673 9.5 33114.0 -1637.4  
 674 8.7 33137.4 -1616.4  
 675 9.1 33203.2 -1646.8  
 676 10. 33203.3 -1635.7  
 677 9.1 33226.6 -1645.9  
 678 8.9 33229.4 -1624.3  
 679 7.9 33245.5 -1613.6  
 680 8.3 33314.2 -1649.7

681 8.8 33321.9 -1646.6  
 682 9.5 33322.4 -1623.0  
 683 9.0 33354.3 -1629.7  
 684 9.8 33356.8 -1615.8  
 685 9.4 33404.2 -1622.1  
 686 9.0 33421.8 -1646.3  
 687 8.5 33447.3 -1646.7  
 688 7.3 33533.9 -1625.8  
 689 8.5 33513.7 -1632.6  
 690 9.3 33517.1 -1659.2

691 9.5 33649.9 -1652.5  
 692 8.8 33714.0 -1654.3  
 693 9.8 33729.6 -1632.4  
 694 9.0 33746.2 -1630.9  
 695 10. 33820.4 -1609.6  
 696 8.5 33833.9 -1652.7  
 697 9.0 33839.2 -1656.9  
 698 9.5 33849.6 -1624.8  
 699 9.1 33941.9 -1649.5  
 700 9.6 33949.8 -1658.1

701 9.5 34010.1 -1629.8  
 702 9.6 34010.8 -1627.2  
 703 9.8 34028.5 -1615.1  
 704 9.3 34043.3 -1617.6  
 705 8.9 34138.0 -1623.1  
 706 9.3 34139.6 -1647.9  
 707 9.5 34312.3 -1600.4  
 708 9.1 34314.4 -1608.1  
 709 9.5 34318.1 -1618.3  
 710 8.0 34404.9 -1603.4

711 9.1 34415.8 -1637.5  
 712 9.3 34433.8 -1657.4  
 713 9.4 34443.1 -1610.9  
 714 9.5 34452.3 -1637.1  
 715 9.7 34510.7 -1626.4  
 716 9.8 34544.2 -1626.2  
 717 7.2 34555.8 -1610.8  
 718 9.6 34620.9 -1639.5  
 719 9.6 34627.9 -1641.8  
 720 9.6 34638.9 -1639.7

721 9.9 34651.4 -1639.7  
 722 9.9 34655.7 -1622.4  
 723 9.7 34702.7 -1613.9  
 724 9.6 34717.3 -1658.7  
 725 9.2 34748.9 -1614.3  
 726 9.8 34801.7 -1626.5  
 727 8.5 34804.0 -1651.9  
 728 8.5 34808.4 -1637.8  
 729 9.0 34839.1 -1650.9  
 730 9.8 34840.6 -1602.7

731 9.7 34840.6 -1614.7  
 732 8.5 34842.8 -1634.8  
 733 8.8 34859.6 -1655.4  
 734 9.5 34906.9 -1637.9  
 735 10. 34938.8 -1631.8  
 736 9.8 34955.2 -1621.0  
 737 9.2 34958.3 -1625.4  
 738 9.2 35002.8 -1629.5  
 739 10. 35013.5 -1645.4  
 740 10. 35024.2 -1655.0

741 8.5 35031.8 -1631.3  
 742 9.7 35054.9 -1626.0  
 743 9.9 35055.8 -1627.9  
 744 9.1 35124.0 -1618.8  
 745 8.5 35129.9 -1639.3  
 746 9.2 35142.5 -1642.0  
 747 9.1 35147.2 -1615.6  
 748 9.4 35225.1 -1651.2  
 749 10. 35239.8 -1623.8  
 750 9.2 35304.0 -1636.9



-16 751 3h53m

751 10. 35328.3 -1659.4  
752 9.0 35337.2 -1601.2  
753 10. 35353.9 -1624.6  
754 9.9 35413.7 -1652.9  
755 8.3 35434.8 -1616.5  
756 9.6 35440.2 -1623.8  
757 9.0 35451.4 -1614.1  
758 9.1 35456.7 -1600.5  
759 10. 35512.2 -1615.0  
760 9.3 35516.9 -1628.1

761 9.8 35527.5 -1640.0  
762 9.5 35529.7 -1603.0  
763 9.5 35547.7 -1614.5  
764 10. 35548.6 -1630.1  
765 8.7 35606.5 -1635.5  
766 9.8 35626.2 -1632.8  
767 8.4 35703.9 -1609.0  
768 9.7 35711.6 -1639.4  
769 9.5 35718.9 -1658.9  
770 6.2 35732.5 -1659.4

771 8.5 35739.8 -1607.6  
772 9.3 35802.8 -1612.9  
773 9.8 35809.3 -1648.7  
774 9.2 35835.3 -1605.7  
775 8.7 35846.8 -1606.3  
776 10. 35916.2 -1612.7  
777 9.4 35924.4 -1610.7  
778 10. 35945.3 -1652.3  
779 9.1 35958.8 -1613.2  
780 9.5 40008.9 -1609.2

781 9.2 40014.5 -1630.6  
782 7.8 40021.9 -1622.6  
783 9.4 40023.5 -1614.6  
784 9.3 40027.8 -1656.5  
785 9.8 40109.2 -1654.4  
786 10. 40115.6 -1600.4  
787 10. 40115.7 -1611.0  
788 10. 40130.2 -1620.1  
789 10. 40133.7 -1622.6  
790 9.3 40208.4 -1640.0

791 7.7 40226.6 -1616.6  
792 9.7 40229.1 -1615.3  
793 8.7 40232.4 -1647.4  
794 10. 40234.3 -1600.1  
795 9.4 40235.9 -1601.9  
796 5.5 40242.3 -1646.4  
797 9.0 40316.2 -1654.9  
798 9.6 40338.6 -1614.6  
799 8.7 40340.3 -1616.5  
800 10. 40348.8 -1649.0

801 9.9 40351.7 -1657.6  
802 10. 40358.2 -1657.1  
803 9.5 40411.1 -1628.4  
804 9.3 40411.8 -1618.3  
805 9.8 40419.4 -1637.9  
806 8.8 40424.2 -1634.2  
807 7.2 40450.2 -1620.8  
808 9.5 40630.1 -1627.8  
809 9.5 40631.7 -1606.5  
810 10. 40652.1 -1652.6

811 10. 40652.7 -1646.8  
812 9.8 40703.7 -1617.3  
813 9.5 40719.0 -1604.9  
814 7.2 40727.6 -1621.6  
815 8.7 40736.7 -1655.4  
816 9.5 40754.9 -1642.7  
817 7.0 40825.3 -1633.0  
818 9.5 40837.6 -1622.2  
819 8.7 40837.8 -1633.6  
820 7.0 40852.7 -1648.6

821 9.4 40906.1 -1641.1  
822 9.7 40914.3 -1610.9  
823 9.9 40940.4 -1636.0  
824 9.5 41001.7 -1614.5  
825 9.1 41006.4 -1639.5  
826 9.0 41017.2 -1627.6  
827 8.8 41018.5 -1659.4  
828 10. 41100.9 -1615.7  
829 8.9 41104.9 -1607.9  
830 8.5 41135.0 -1644.7

831 10. 41143.7 -1620.7  
832 8.5 41240.0 -1642.6  
833 9.4 41302.5 -1614.7  
834 9.7 41308.9 -1633.4  
835 10. 41309.4 -1636.5  
836 9.5 41310.3 -1623.5  
837 9.5 41327.0 -1638.4  
838 6.8 41335.1 -1647.2  
839 8.5 41344.8 -1628.5  
840 9.0 41407.0 -1642.7

841 9.5 41411.2 -1657.3  
842 9.9 41421.2 -1600.5  
843 10. 41423.8 -1627.0  
844 9.9 41549.1 -1609.9  
845 8.7 41619.5 -1612.7  
846 10. 41619.8 -1655.4  
847 9.6 41638.9 -1659.2  
848 9.1 41648.3 -1627.2  
849 8.2 41735.4 -1622.7  
850 9.3 41740.3 -1624.0

851 9.4 41803.2 -1651.7  
852 9.0 41839.2 -1611.4  
853 7.7 41901.1 -1645.3  
854 9.3 41908.0 -1638.1  
855 9.3 41913.2 -1612.0  
856 9.4 41925.6 -1645.3  
857 9.1 41945.6 -1617.4  
858 10. 41948.3 -1630.5  
859 9.6 41955.9 -1610.1  
860 10. 42019.8 -1654.4

861 10. 42037.3 -1619.0  
862 9.7 42038.1 -1621.9  
863 9.3 42039.2 -1610.4  
864 9.6 42040.3 -1655.7  
865 10. 42124.4 -1620.5  
866 9.9 42133.3 -1602.0  
867 9.4 42212.6 -1638.0  
868 9.5 42230.7 -1638.1  
869 10. 42250.8 -1642.2  
870 9.0 42300.8 -1615.6

871 10. 42306.9 -1657.9  
872 9.6 42308.8 -1603.1  
873 9.8 42321.9 -1619.3  
874 9.4 42336.0 -1626.4  
875 9.7 42345.0 -1621.4  
876 8.9 42402.7 -1612.8  
877 9.0 42405.6 -1635.6  
878 8.7 42409.3 -1646.4  
879 9.2 42410.8 -1647.1  
880 9.2 42420.0 -1615.1

881 10. 42428.3 -1651.7  
882 9.9 42446.9 -1653.6  
883 9.6 42452.0 -1619.8  
884 9.5 42457.9 -1604.2  
885 9.6 42518.2 -1635.8  
886 8.8 42527.0 -1616.4  
887 9.5 42614.0 -1654.3  
888 10. 42618.8 -1646.6  
889 9.2 42620.4 -1605.9  
890 8.5 42623.8 -1604.8

891 9.5 42625.9 -1651.3  
892 9.2 42716.7 -1639.1  
893 9.5 42723.8 -1628.8  
894 9.1 42732.8 -1615.5  
895 9.4 42741.1 -1616.0  
896 9.5 42802.9 -1643.2  
897 10. 42814.1 -1627.0  
898 9.8 42834.9 -1651.2  
899 10. 42838.3 -1636.9  
900 9.8 42907.9 -1603.1

901 9.2 42914.5 -1617.3  
902 9.4 42931.2 -1632.2  
903 9.5 42934.9 -1648.7  
904 10. 43052.4 -1645.0  
905 8.3 43053.8 -1639.1  
906 9.8 43109.4 -1644.8  
907 9.1 43132.5 -1613.5  
908 9.3 43147.8 -1625.7  
909 9.0 43156.9 -1648.3  
910 9.8 43222.4 -1617.9

911 9.7 43230.9 -1646.6  
912 9.0 43237.1 -1621.5  
913 8.5 43249.9 -1616.2  
914 9.3 43250.9 -1649.5  
915 9.7 43256.0 -1645.2  
916 8.7 43307.5 -1651.2  
917 10. 43308.7 -1628.0  
918 9.8 43209.4 -1626.6  
919 9.1 43332.1 -1652.1  
920 9.4 43345.6 -1651.9

921 9.2 43402.2 -1621.0  
922 9.2 43500.1 -1653.2  
923 10. 43504.6 -1632.3  
924 9.0 43506.1 -1658.4  
925 9.5 43515.0 -1608.5  
926 8.5 43612.1 -1611.3  
927 10. 43622.0 -1624.8  
928 9.9 43630.5 -1605.0  
929 9.4 43642.9 -1613.3  
930 9.5 43648.5 -1611.8

931 9.3 43702.8 -1604.9  
932 9.3 43724.3 -1639.7  
933 9.0 43733.5 -1620.3  
934 10. 43745.5 -1634.4  
935 9.2 43753.0 -1608.4  
936 9.8 43758.0 -1615.5  
937 7.2 43801.0 -1620.4  
938 9.1 43801.8 -1649.5  
939 9.3 43820.8 -1650.9  
940 9.5 43901.9 -1629.6

941 9.6 43920.8 -1647.5  
942 10. 43923.4 -1611.7  
943 9.8 43928.4 -1652.2  
944 8.7 43932.3 -1647.2  
945 8.7 44007.3 -1650.5  
946 9.8 44008.7 -1619.9  
947 8.5 44029.4 -1625.4  
948 10. 44031.3 -1624.6  
949 10. 44045.9 -1654.5  
950 9.4 44046.4 -1628.4

951 9.0 44109.3 -1612.9  
952 9.0 44118.3 -1614.3  
953 9.7 44122.2 -1659.2  
954 9.3 44144.8 -1600.3  
955 9.7 44153.0 -1615.1  
956 6.5 44200.6 -1635.3  
957 9.7 44206.5 -1629.7  
958 8.0 44207.1 -1625.0  
959 9.1 44232.3 -1646.2  
960 8.5 44305.0 -1603.7

961 9.1 44328.2 -1620.7  
962 9.8 44333.8 -1641.9  
963 7.5 44334.2 -1603.0  
964 5.4 44338.9 -1628.3  
965 9.8 44341.1 -1616.7  
966 10. 44357.2 -1654.3  
967 10. 44357.3 -1645.6  
968 10. 44405.9 -1651.6  
969 9.0 44406.0 -1633.7  
970 9.5 44422.7 -1654.0

971 9.4 44500.7 -1614.4  
972 9.0 44503.9 -1601.5  
973 9.1 44512.6 -1634.5  
974 9.3 44514.2 -1628.3  
975 8.9 44515.1 -1639.0  
976 9.3 44518.5 -1639.5  
977 10. 44524.3 -1644.8  
978 9.7 44537.1 -1616.1  
979 9.6 44540.3 -1643.7  
980 9.4 44540.4 -1646.8

981 9.3 44556.9 -1648.8  
982 9.5 44615.0 -1604.1  
983 9.4 44624.3 -1621.3  
984 9.5 44647.5 -1622.7  
985 10. 44658.0 -1653.2  
986 9.3 44740.1 -1615.5  
987 9.6 44748.1 -1655.2  
988 9.0 44754.8 -1618.3  
989 9.5 44809.7 -1647.9  
990 9.9 44809.7 -1635.0

991 6.2 44836.8 -1658.5  
992 6.0 44848.3 -1639.3  
993 8.7 44855.6 -1607.0  
994 9.7 44919.2 -1634.1  
995 10. 44924.9 -1630.3  
996 8.8 44933.6 -1608.2  
997 9.4 44949.6 -1633.3  
998 9.5 45013.9 -1648.2  
999 7.7 45015.9 -1621.8  
1000 9.1 45052.2 -1605.3

1001 8.9 45053.5 -1625.8  
1002 9.3 45100.0 -1622.0  
1003 9.2 45103.2 -1613.6  
1004 9.4 45105.4 -1619.7  
1005 9.7 45128.2 -1624.1  
1006 8.3 45132.5 -1624.7  
1007 9.0 45151.8 -1655.5  
1008 9.5 45154.5 -1624.6  
1009 8.8 45157.1 -1626.0  
1010 9.5 45204.6 -1603.5

1011 9.7 45222.2 -1620.0  
1012 9.9 45230.0 -1624.5  
1013 6.2 45231.6 -1636.0  
1014 9.8 45246.7 -1653.7  
1015 9.8 45259.1 -1640.9  
1016 10. 45303.5 -1620.9  
1017 9.4 45328.3 -1636.2  
1018 8.3 45328.5 -1601.0  
1019 9.2 45337.6 -1656.8  
1020 9.4 45337.7 -1632.2

1021 10. 45340.8 -1623.1  
1022 8.3 45341.0 -1607.5  
1023 9.8 45342.4 -1653.2  
1024 8.4 45352.0 -1618.8  
1025 9.4 45353.5 -1625.1  
1026 8.0 45551.0 -1622.5  
1027 8.7 45623.3 -1605.0  
1028 9.2 45653.0 -1643.2  
1029 9.8 45725.6 -1656.8  
1030 9.2 45728.5 -1642.9

1031 9.4 45748.5 -1619.5  
1032 9.8 45802.8 -1655.9  
1033 9.8 45804.8 -1645.8  
1034 8.7 45825.7 -1612.4  
1035 9.5 45950.7 -1609.2  
1036 9.4 45956.1 -1646.9  
1037 9.0 45957.4 -1640.0  
1038 9.0 45957.7 -1605.4  
1039 9.3 45926.7 -1617.7  
1040 9.8 45935.9 -1613.9

1041 9.2 45953.3 -1651.1  
1042 9.0 45954.1 -1601.4  
1043 9.1 45926.0 -1615.3  
1044 9.2 50036.3 -1631.6  
1045 9.5 50049.3 -1608.9  
1046 9.5 50058.1 -1606.3  
1047 10. 50116.7 -1603.5  
1048 8.9 50133.7 -1659.0  
1049 9.1 50146.5 -1639.9  
1050 9.7 50159.1 -1658.3

1051 9.2 50223.0 -1615.0  
1052 9.8 50224.2 -1601.5  
1053 8.9 50229.4 -1612.4  
1054 10. 50252.7 -1650.9  
1055 9.8 50310.6 -1641.7  
1056 8.8 50328.4 -1617.2  
1057 8.7 50329.5 -1609.7  
1058 9.8 50332.2 -1626.7  
1059 9.8 50346.9 -1654.0  
1060 8.6 50401.9 -1610.0

1061 9.0 50411.1 -1639.9  
1062 9.0 50411.7 -1608.4  
1063 9.5 50436.1 -1621.1  
1064 9.5 50508.8 -1653.4  
1065 10. 50518.7 -1625.5  
1066 9.0 50523.8 -1623.9  
1067 9.1 50535.4 -1654.7  
1068 9.8 50609.0 -1633.4  
1069 9.8 50609.7 -1613.3  
1070 9.1 50615.5 -1618.7

1071 9.5 50620.9 -1633.1  
1072 3.0 50625.7 -1622.9  
1073 8.2 50630.8 -1602.5  
1074 9.6 50639.9 -1651.6  
1075 10. 50705.0 -1639.8  
1076 9.3 50713.0 -1652.4  
1077 9.3 50730.1 -1619.9  
1078 9.0 50733.8 -1649.5  
1079 9.0 50735.5 -1617.3  
1080 8.0 50736.1 -1650.1

1081 10. 50806.2 -1634.0  
1082 9.2 50840.2 -1601.6  
1083 9.0 50842.8 -1603.3  
1084 9.4 50853.2 -1642.6  
1085 9.8 50900.9 -1656.9  
1086 9.5 50904.7 -1609.4  
1087 9.4 50913.7 -1644.7  
1088 9.5 50926.9 -1609.1  
1089 8.3 50929.9 -1631.0  
1090 9.7 50930.7 -1632.2

1091 9.3 50947.5 -1618.5  
1092 9.9 51005.1 -1618.6  
1093 9.3 51129.3 -1625.1  
1094 9.8 51135.6 -1602.8  
1095 9.0 51135.9 -1621.7  
1096 7.7 51139.7 -1620.9  
1097 9.2 51146.6 -1640.0  
1098 9.8 51159.5 -1636.0  
1099 9.4 51202.8 -1652.1  
1100 9.5 51210.5 -1656.3

1101 9.7 51211.6 -1611.2  
1102 9.3 51232.8 -1609.5  
1103 9.4 51236.2 -1603.6  
1104 9.3 51236.4 -1648.2  
1105 9.5 51241.4 -1608.1  
1106 9.5 51242.9 -1624.5  
1107 8.8 51253.0 -1613.8  
1108 10. 51402.0 -1650.0  
1109 9.5 51420.9 -1655.9  
1110 9.9 51422.8 -1600.2

-16 1110 5h14m



-16 1111 5h14m

1111 9.4 51430.5 -1606.6  
1112 10. 51458.1 -1637.9  
1113 9.9 51459.2 -1652.9  
1114 9.7 51509.6 -1618.3  
1115 9.3 51521.5 -1655.3  
1116 9.5 51542.1 -1624.5  
1117 8.5 51544.1 -1609.5  
1118 9.3 51607.9 -1604.0  
1119 10. 51619.3 -1644.2  
1120 9.5 51622.3 -1622.1

1121 9.4 51632.3 -1621.7  
1122 9.4 51633.0 -1623.6  
1123 9.8 51705.5 -1616.0  
1124 9.3 51706.5 -1655.1  
1125 9.0 51709.0 -1632.1  
1126 9.0 51722.3 -1624.9  
1127 9.3 51735.7 -1611.7  
1128 9.0 51742.6 -1635.3  
1129 8.3 51743.4 -1610.4  
1130 9.4 51754.4 -1601.2

1131 9.8 51806.9 -1652.8  
1132 9.4 51808.5 -1659.8  
1133 9.3 51820.0 -1650.9  
1134 9.8 51829.8 -1648.1  
1135 9.5 51835.7 -1642.5  
1136 10. 51848.2 -1622.5  
1137 8.7 51900.8 -1644.5  
1138 9.4 51902.6 -1600.1  
1139 8.5 51910.0 -1605.5  
1140 9.5 51927.8 -1602.3

1141 8.5 51935.8 -1645.6  
1142 9.8 51936.1 -1634.6  
1143 9.9 51946.3 -1643.1  
1144 9.7 52020.4 -1656.3  
1145 8.5 52023.6 -1636.8  
1146 8.0 52028.9 -1627.2  
1147 7.5 52040.7 -1638.4  
1148 8.3 52158.3 -1658.3  
1149 9.8 52233.2 -1639.9  
1150 9.2 52253.3 -1618.3

1151 9.3 52300.6 -1615.8  
1152 8.5 52312.4 -1602.0  
1153 9.8 52312.8 -1640.7  
1154 8.9 52323.9 -1647.3  
1155 9.3 52324.0 -1657.9  
1156 9.0 52354.5 -1604.3  
1157 9.0 52405.1 -1612.3  
1158 9.4 52408.4 -1621.8  
1159 10. 52428.4 -1647.6  
1160 9.2 52436.7 -1638.0

1161 9.9 52441.4 -1624.6  
1162 9.3 52505.6 -1655.0  
1163 9.0 52519.2 -1614.4  
1164 9.3 52524.7 -1657.7  
1165 7.0 52528.3 -1646.6  
1166 9.8 52538.9 -1602.1  
1167 9.8 52601.3 -1643.4  
1168 7.2 52612.4 -1625.1  
1169 9.4 52622.9 -1644.7  
1170 9.4 52659.8 -1621.5

1171 9.4 52715.6 -1609.1  
1172 9.5 52723.6 -1635.9  
1173 9.6 52733.0 -1656.3  
1174 9.4 52754.0 -1606.5  
1175 10. 52812.3 -1618.0  
1176 9.9 52827.2 -1610.2  
1177 9.7 52905.1 -1610.0  
1178 9.7 52908.5 -1610.5  
1179 8.5 52915.9 -1641.0  
1180 8.4 52938.4 -1657.5

1181 9.2 52950.0 -1649.7  
1182 8.5 52957.9 -1646.8  
1183 9.8 53008.3 -1638.5  
1184 10. 53032.6 -1632.9  
1185 8.5 53052.0 -1647.2  
1186 9.3 53056.6 -1630.9  
1187 10. 53121.7 -1636.0  
1188 10. 53121.8 -1659.4  
1189 9.8 53139.3 -1607.5  
1190 9.8 53145.3 -1605.8

1191 9.8 53201.0 -1645.0  
1192 9.4 53222.5 -1646.5  
1193 10. 53226.9 -1656.8  
1194 8.3 53241.4 -1610.2  
1195 9.7 53242.0 -1621.9  
1196 10. 53256.2 -1646.0  
1197 10. 53310.3 -1635.9  
1198 9.8 53337.1 -1611.4  
1199 8.5 53346.2 -1631.0  
1200 9.2 53350.7 -1611.1

1201 9.4 53403.0 -1610.2  
1202 8.7 53413.1 -1613.0  
1203 8.8 53444.8 -1657.4  
1204 9.6 53502.1 -1645.1  
1205 8.8 53506.1 -1629.6  
1206 9.0 53507.2 -1623.5  
1207 10. 53511.8 -1607.3  
1208 6.5 53512.7 -1647.5  
1209 9.3 53514.1 -1612.3  
1210 9.3 53516.6 -1600.0

1211 10. 53535.4 -1619.3  
1212 9.5 53540.0 -1643.9  
1213 9.4 53545.8 -1614.4  
1214 9.0 53550.6 -1648.6  
1215 9.0 53553.9 -1644.3  
1216 10. 53606.7 -1614.0  
1217 9.5 53628.6 -1650.6  
1218 9.8 53650.7 -1652.3  
1219 10. 53711.1 -1650.1  
1220 9.8 53716.6 -1642.0

1221 8.5 53719.5 -1623.9  
1222 9.5 53736.8 -1603.5  
1223 9.1 53750.8 -1614.5  
1224 8.0 53809.0 -1646.3  
1225 8.8 53814.7 -1653.5  
1226 10. 53835.2 -1653.2  
1227 8.5 53835.3 -1602.9  
1228 9.8 53855.8 -1638.9  
1229 9.0 53858.2 -1600.0  
1230 9.8 53859.7 -1600.4

1231 9.6 53913.1 -1604.4  
1232 8.7 53916.7 -1600.4  
1233 9.4 53937.0 -1625.2  
1234 9.4 53937.6 -1616.7  
1235 9.0 53944.7 -1600.8  
1236 9.0 54001.1 -1649.4  
1237 9.5 54002.9 -1654.8  
1238 9.8 54003.3 -1602.0  
1239 9.5 54012.2 -1640.4  
1240 9.2 54015.5 -1646.6

1241 9.5 54018.0 -1626.3  
1242 7.7 54030.9 -1641.9  
1243 10. 54035.0 -1643.3  
1244 6.4 54039.0 -1617.4  
1245 9.0 54040.6 -1627.9  
1246 9.4 54043.5 -1618.0  
1247 9.9 54046.8 -1600.4  
1248 9.0 54049.3 -1609.7  
1249 9.5 54114.0 -1607.6  
1250 9.8 54124.4 -1643.2

1251 9.8 54131.5 -1613.8  
1252 9.4 54139.1 -1650.9  
1253 9.8 54149.7 -1631.5  
1254 10. 54205.9 -1613.9  
1255 9.8 54206.5 -1608.1  
1256 9.7 54211.2 -1653.9  
1257 10. 54211.6 -1617.3  
1258 10. 54224.9 -1637.8  
1259 8.7 54225.5 -1638.8  
1260 9.4 54233.4 -1658.2

1261 9.4 54245.9 -1604.4  
1262 9.5 54247.3 -1601.8  
1263 8.8 54308.3 -1632.6  
1264 9.3 54311.4 -1606.2  
1265 9.4 54325.9 -1627.6  
1266 9.7 54331.7 -1613.1  
1267 10. 54341.3 -1634.9  
1268 9.2 54354.7 -1654.3  
1269 9.0 54357.8 -1614.6  
1270 9.5 54405.4 -1641.6

1271 9.1 54410.3 -1602.5  
1272 10. 54424.7 -1640.0  
1273 9.8 54425.2 -1631.3  
1274 9.0 54436.5 -1601.1  
1275 9.1 54442.0 -1601.6  
1276 10. 54446.0 -1625.8  
1277 9.7 54449.9 -1602.2  
1278 9.9 54450.1 -1626.7  
1279 10. 54454.4 -1628.6  
1280 9.4 54455.7 -1654.3

1281 9.8 54506.4 -1642.9  
1282 10. 54512.5 -1613.4  
1283 10. 54518.0 -1607.7  
1284 9.1 54546.2 -1600.2  
1285 10. 54559.3 -1608.5  
1286 9.9 54601.2 -1613.0  
1287 9.5 54604.4 -1620.0  
1288 9.0 54619.4 -1641.5  
1289 9.0 54635.0 -1645.1  
1290 9.2 54653.4 -1601.9

1291 8.9 54655.5 -1619.6  
1292 7.9 54702.5 -1617.6  
1293 9.8 54704.9 -1613.1  
1294 8.6 54705.7 -1602.2  
1295 9.8 54707.1 -1639.9  
1296 9.5 54729.6 -1648.2  
1297 9.8 54754.8 -1634.8  
1298 9.9 54808.7 -1632.0  
1299 9.7 54835.3 -1620.4  
1300 9.5 54856.6 -1628.7

1301 9.0 54919.5 -1650.4  
1302 8.5 54944.1 -1644.7  
1303 9.5 54958.3 -1617.9  
1304 9.5 55001.2 -1632.5  
1305 9.7 55010.9 -1614.2  
1306 9.4 55031.1 -1656.8  
1307 10. 55052.0 -1644.1  
1308 10. 55055.1 -1646.3  
1309 9.3 5509.5 -1607.7  
1310 9.8 5512.8 -1604.7

1311 9.4 55115.3 -1606.9  
1312 9.5 55143.0 -1642.1  
1313 9.5 55227.6 -1645.5  
1314 9.8 55236.1 -1658.9  
1315 9.5 55236.6 -1617.8  
1316 9.8 55237.1 -1657.3  
1317 9.8 55239.7 -1629.7  
1318 9.5 55305.1 -1610.2  
1319 9.2 55305.9 -1647.8  
1320 8.0 55309.6 -1647.8

1321 9.2 55311.8 -1612.7  
1322 9.7 5532.5 -1616.5  
1323 9.4 55331.7 -1632.0  
1324 10. 55331.4 -1639.5  
1325 9.8 55332.3 -1637.6  
1326 9.2 55336.8 -1653.3  
1327 10. 55350.7 -1612.2  
1328 9.5 55411.2 -1614.7  
1329 9.2 55418.3 -1620.1  
1330 10. 55441.7 -1609.0

1331 9.5 55455.8 -1658.5  
1332 9.8 55502.5 -1646.6  
1333 7.2 55505.7 -1623.8  
1334 10. 55507.1 -1644.8  
1335 9.8 55522.0 -1644.2  
1336 9.7 55525.5 -1604.7  
1337 8.8 55532.7 -1646.9  
1338 9.6 55544.4 -1605.2  
1339 9.8 55608.6 -1657.4  
1340 9.4 55630.8 -1655.6

1341 9.1 55644.1 -1626.7  
1342 9.1 55646.7 -1601.2  
1343 8.0 55648.9 -1602.2  
1344 8.8 55743.2 -1608.5  
1345 9.0 55746.3 -1652.7  
1346 9.4 55752.1 -1646.0  
1347 9.0 55807.4 -1636.8  
1348 10. 55822.5 -1608.5  
1349 5.3 55830.6 -1628.1  
1350 9.5 55835.5 -1620.7

1351 9.0 55859.1 -1608.7  
1352 9.0 55916.3 -1631.2  
1353 8.2 55920.8 -1613.7  
1354 7.8 55920.8 -1656.7  
1355 10. 55944.1 -1606.0  
1356 8.2 60004.8 -1652.7  
1357 7.0 60010.6 -1630.4  
1358 9.0 60011.8 -1626.1  
1359 8.4 60013.2 -1614.9  
1360 10. 60015.8 -1603.4

1361 10. 60020.2 -1641.2  
1362 10. 60037.3 -1644.3  
1363 9.8 60038.2 -1609.9  
1364 9.4 60040.5 -1642.5  
1365 9.7 60050.7 -1604.7  
1366 9.8 60102.9 -1630.8  
1367 9.8 60107.2 -1616.8  
1368 9.0 60113.5 -1641.5  
1369 9.6 60141.7 -1656.2  
1370 9.5 60154.9 -1606.5

1371 9.2 60159.0 -1652.4  
1372 9.8 60217.6 -1635.6  
1373 9.5 60225.9 -1606.8  
1374 9.0 60251.6 -1659.4  
1375 9.0 60255.2 -1613.2  
1376 9.5 60316.3 -1603.8  
1377 9.5 60321.1 -1634.2  
1378 10. 60328.9 -1628.7  
1379 10. 60331.4 -1630.6  
1380 9.5 60338.1 -1634.2

-16 1470 6h18m

1381 9.3 60350.7 -1613.5  
1382 9.2 60352.6 -1653.4  
1383 10. 60435.3 -1626.8  
1384 9.4 60435.4 -1625.4  
1385 9.3 60450.9 -1604.5  
1386 8.2 60452.8 -1633.7  
1387 8.5 60457.1 -1648.2  
1388 9.5 60457.3 -1650.0  
1389 9.4 60505.1 -1617.1  
1390 9.5 60531.3 -1614.4

1391 9.5 60532.0 -1629.4  
1392 9.8 60534.7 -1611.8  
1393 9.5 60549.5 -1607.2  
1394 9.4 60554.8 -1617.0  
1395 8.7 60605.9 -1601.6  
1396 9.1 60610.8 -1646.6  
1397 10. 60614.4 -1633.7  
1398 9.5 60623.2 -1639.9  
1399 9.0 60634.8 -1651.3  
1400 9.2 60650.5 -1606.3

1401 9.2 60652.9 -1605.0  
1402 9.8 60700.7 -1641.0  
1403 10. 60700.0 -1616.8  
1404 9.3 60712.8 -1626.5  
1405 10. 60739.0 -1643.4  
1406 9.9 60739.7 -1619.5  
1407 9.0 60756.1 -1634.9  
1408 8.5 60817.5 -1609.5  
1409 8.4 60820.7 -1622.8  
1410 9.8 60843.4 -1628.9

1411 9.7 60857.3 -1644.3  
1412 9.8 60902.4 -1647.2  
1413 7.8 60929.1 -1659.1  
1414 8.7 60939.4 -1613.5  
1415 6.8 60940.1 -1634.2  
1416 9.8 61009.5 -1653.7  
1417 9.1 61013.9 -1605.4  
1418 9.4 61029.9 -1603.6  
1419 9.4 61031.5 -1629.1  
1420 9.9 61031.7 -1611.0

1421 9.8 61050.6 -1635.3  
1422 9.5 61052.7 -1620.1  
1423 9.4 61057.1 -1631.7  
1424 8.5 61059.3 -1657.0  
1425 9.0 61111.5 -1612.3  
1426 6.0 61114.3 -1645.8  
1427 8.8 61121.5 -1641.2  
1428 9.5 61132.8 -1618.1  
1429 9.2 61146.1 -1646.6  
1430 9.8 61151.2 -1659.4

1431 10. 61211.6 -1630.4  
1432 8.7 61217.4 -1623.0  
1433 10. 61217.7 -1603.5  
1434 9.6 61222.5 -1603.3  
1435 10. 61230.8 -1618.4  
1436 9.9 61239.7 -1655.4  
1437 9.0 61246.1 -1617.1  
1438 9.6 61315.4 -1657.5  
1439 9.6 61351.3 -1639.8  
1440 9.2 61359.0 -1603.9

1441 9.2 61405.3 -1604.6  
1442 9.3 61426.3 -1657.1  
1443 8.0 61427.6 -1654.9  
1444 9.5 61433.5 -1623.0  
1445 9.8 61435.1 -1619.9  
1446 8.3 61441.3 -1636.7  
1447 8.7 61451.7 -1608.5  
1448 8.0 61451.9 -1644.4  
1449 9.5 61459.4 -1622.3  
1450 9.6 61509.5 -1624.5

1451 9.6 61519.2 -1651.3  
1452 9.6 61526.1 -1607.5  
1453 10. 61539.7 -1651.5  
1454 8.6 61539.9 -1632.1  
1455 9.8 61549.4 -1612.6  
1456 8.6 61555.8 -1639.5  
1457 10. 61620.9 -1643.2  
1458 10. 61700.3 -1655.5  
1459 10. 61703.6 -1624.5  
1460 9.9 61710.1 -1658.8

1461 7.2 61714.0 -1623.5  
1462 9.1 61722.7 -1651.9  
1463 9.2 61722.9 -1633.1  
1464 9.4 61742.8 -1612.0  
1465 9.2 61744.7 -1613.0  
1466 9.7 61748.8 -1658.8  
1467 7.4 61751.9 -1609.2  
1468 9.0 61753.4 -1609.0  
1469 8.9 61757.6 -1642.8  
1470 10. 61802.2 -1617.0



-16 1471 6h18m

1471 9.3 61815.1 -1605.7  
1472 10. 61823.0 -1638.0  
1473 9.8 61839.5 -1603.2  
1474 9.1 61852.5 -1659.5  
1475 8.8 61857.6 -1619.1  
1476 9.9 61903.1 -1604.5  
1477 9.5 61921.2 -1652.0  
1478 8.8 61928.6 -1649.6  
1479 8.8 61928.8 -1639.1  
1480 9.4 61929.9 -1614.1  
  
1481 9.0 61934.7 -1607.3  
1482 9.1 61959.3 -1639.4  
1483 7.8 62003.1 -1631.0  
1484 9.0 62018.3 -1639.2  
1485 10. 62025.0 -1600.9  
1486 8.6 62033.1 -1655.0  
1487 9.3 62033.0 -1601.5  
1488 9.4 62048.9 -1616.2  
1489 10. 62112.1 -1653.7  
1490 9.9 62116.3 -1635.7  
  
1491 9.0 62133.8 -1603.0  
1492 10. 62144.7 -1635.2  
1493 9.5 62152.3 -1640.1  
1494 9.5 62153.1 -1651.5  
1495 10. 62208.6 -1626.9  
1496 9.8 62209.1 -1618.3  
1497 9.4 62229.6 -1619.6  
1498 9.1 62231.8 -1603.9  
1499 9.8 62249.1 -1658.0  
1500 7.3 62211.1 -1655.1  
  
1501 9.3 62312.6 -1617.4  
1502 9.3 62344.0 -1613.2  
1503 10. 62351.7 -1632.7  
1504 8.2 62357.1 -1650.6  
1505 9.4 62405.8 -1628.6  
1506 8.5 62425.5 -1611.5  
1507 9.4 62428.3 -1637.1  
1508 9.0 62441.9 -1622.5  
1509 9.0 62442.0 -1636.2  
1510 9.2 62443.7 -1632.0  
  
1511 9.1 62446.0 -1646.5  
1512 9.8 62448.4 -1646.3  
1513 8.7 62501.1 -1617.9  
1514 9.0 62502.7 -1609.8  
1515 9.2 62511.4 -1622.4  
1516 9.3 62526.0 -1625.1  
1517 9.8 62542.6 -1628.7  
1518 9.3 62543.0 -1601.2  
1519 10. 62547.1 -1601.7  
1520 9.5 62553.8 -1649.0  
  
1521 9.8 62641.5 -1631.1  
1522 10. 62644.1 -1603.0  
1523 9.8 62718.2 -1607.0  
1524 9.3 62726.0 -1630.6  
1525 10. 62740.9 -1641.5  
1526 9.0 62746.1 -1611.2  
1527 9.4 62751.3 -1620.9  
1528 9.2 62803.8 -1603.5  
1529 9.5 62807.0 -1630.4  
1530 9.5 62815.3 -1620.7  
  
1531 8.8 62818.2 -1603.8  
1532 9.5 62822.6 -1651.1  
1533 9.1 62826.1 -1633.7  
1534 10. 62834.7 -1655.5  
1535 10. 62844.0 -1630.8  
1536 8.8 62850.7 -1654.7  
1537 8.8 62930.3 -1641.4  
1538 9.5 62940.5 -1653.0  
1539 9.8 63002.2 -1627.0  
1540 10. 63002.7 -1627.9  
  
1541 9.1 63017.3 -1615.0  
1542 7.9 63031.7 -1614.1  
1543 10. 63031.8 -1631.9  
1544 9.5 63037.5 -1610.1  
1545 9.4 63059.6 -1653.2  
1546 8.2 63116.6 -1653.0  
1547 9.4 63135.2 -1635.3  
1548 9.8 63138.7 -1636.4  
1549 9.1 63140.1 -1620.4  
1550 9.9 63154.0 -1629.1  
  
1551 9.4 63200.7 -1637.6  
1552 9.4 63205.3 -1620.8  
1553 9.3 63206.4 -1623.7  
1554 6.3 63207.9 -1645.0  
1555 9.5 63214.1 -1615.2  
1556 7.3 63215.2 -1608.1  
1557 9.5 63230.0 -1650.4  
1558 8.7 63231.0 -1641.2  
1559 8.7 63232.3 -1619.3  
1560 8.2 63250.0 -1631.8

1561 9.5 63308.6 -1631.8  
1562 9.4 63316.9 -1645.6  
1563 8.7 63348.3 -1621.0  
1564 9.1 63356.4 -1646.0  
1565 9.8 63407.2 -1617.1  
1566 10. 63414.3 -1645.7  
1567 10. 63415.8 -1632.8  
1568 9.7 63429.9 -1615.0  
1569 9.5 63430.7 -1607.0  
1570 9.3 63446.2 -1636.0  
  
1571 9.5 63506.1 -1631.9  
1572 9.0 63513.0 -1604.1  
1573 9.0 63522.6 -1608.2  
1574 9.6 63546.4 -1645.5  
1575 9.5 63548.6 -1632.6  
1576 9.0 63603.6 -1605.8  
1577 9.5 63606.9 -1648.9  
1578 9.5 63628.9 -1645.7  
1579 9.8 63632.1 -1606.4  
1580 8.9 63637.0 -1601.2  
  
1581 9.3 63649.0 -1652.6  
1582 9.3 63704.8 -1613.9  
1583 9.0 63717.5 -1653.9  
1584 9.3 63737.1 -1624.4  
1585 9.8 63739.0 -1653.2  
1586 8.5 63810.2 -1645.7  
1587 9.3 63814.3 -1638.2  
1588 9.8 63814.5 -1657.3  
1589 8.5 63830.6 -1638.8  
1590 8.7 63833.2 -1653.1  
  
1591 1.0 63844.6 -1631.6  
1592 9.2 63854.0 -1608.8  
1593 9.0 63906.9 -1644.7  
1594 8.8 63909.5 -1646.8  
1595 8.2 63938.2 -1619.9  
1596 8.8 63949.0 -1646.9  
1597 8.8 63951.9 -1643.1  
1598 8.5 64001.6 -1653.0  
1599 9.1 64016.1 -1612.5  
1600 9.0 64030.9 -1602.2  
  
1601 9.5 64049.0 -1653.1  
1602 9.8 64107.9 -1607.2  
1603 9.8 64108.3 -1603.9  
1604 9.5 64123.5 -1608.7  
1605 9.5 64124.6 -1633.3  
1606 9.7 64126.4 -1622.7  
1607 9.5 64142.8 -1641.0  
1608 9.3 64201.8 -1658.3  
1609 7.8 64217.2 -1603.0  
1610 9.7 64224.5 -1617.2  
  
1611 9.4 64226.6 -1633.4  
1612 9.8 64231.9 -1618.5  
1613 9.8 64249.0 -1647.5  
1614 9.5 64250.3 -1619.3  
1615 10. 64303.5 -1640.5  
1616 9.4 64306.5 -1637.6  
1617 9.6 64314.7 -1643.6  
1618 8.1 64315.2 -1608.8  
1619 9.3 64322.7 -1642.1  
1620 9.4 64333.8 -1641.8  
  
1621 10. 64336.1 -1612.5  
1622 9.8 64337.1 -1657.5  
1623 8.7 64353.3 -1646.4  
1624 6.0 64354.0 -1654.8  
1625 9.5 64406.7 -1601.3  
1626 10. 64410.6 -1617.7  
1627 9.4 64423.0 -1606.5  
1628 10. 64429.0 -1609.2  
1629 9.0 64432.6 -1632.5  
1630 9.6 64439.7 -1654.1  
  
1631 9.7 64449.9 -1645.8  
1632 9.3 64510.9 -1625.3  
1633 9.6 64521.3 -1621.5  
1634 9.7 64536.9 -1627.0  
1635 9.7 64544.9 -1618.1  
1636 8.8 64551.4 -1613.0  
1637 9.3 64604.9 -1626.3  
1638 7.3 64615.7 -1602.2  
1639 9.4 64630.5 -1608.1  
1640 9.7 64645.0 -1610.6  
  
1641 9.5 64653.6 -1608.8  
1642 9.7 64658.1 -1614.9  
1643 9.7 64705.4 -1602.1  
1644 8.5 64706.0 -1641.0  
1645 9.5 64732.1 -1616.5  
1646 9.7 64747.0 -1639.9  
1647 9.7 64747.8 -1657.1  
1648 9.6 64758.3 -1619.5  
1649 8.3 64805.1 -1634.8  
1650 9.8 64808.3 -1622.3

1651 9.7 64820.1 -1608.2  
1652 9.0 64822.7 -1621.5  
1653 9.0 64834.2 -1618.0  
1654 9.5 64847.2 -1619.3  
1655 8.5 64854.4 -1628.2  
1656 9.2 64855.5 -1607.4  
1657 9.8 64904.6 -1653.7  
1658 8.8 64914.8 -1621.2  
1659 9.2 64921.6 -1633.4  
1660 9.7 64938.0 -1611.4  
  
1661 6.0 64940.5 -1651.9  
1662 9.8 64940.5 -1615.0  
1663 9.4 64950.8 -1609.8  
1664 9.6 64952.1 -1642.7  
1665 9.8 65000.9 -1602.8  
1666 8.5 65004.5 -1618.8  
1667 9.2 65015.7 -1617.3  
1668 9.7 65024.5 -1652.5  
1669 8.9 65026.6 -1653.3  
1670 9.1 65031.5 -1631.2  
  
1671 7.5 65034.9 -1654.6  
1672 9.0 65036.5 -1617.5  
1673 8.2 65052.5 -1611.9  
1674 8.8 65057.1 -1654.7  
1675 9.1 65059.5 -1650.0  
1676 9.0 65103.7 -1619.9  
1677 8.2 65104.5 -1642.0  
1678 8.5 65106.0 -1617.8  
1679 10. 65112.4 -1630.8  
1680 9.4 65113.5 -1609.5  
  
1681 10. 65125.1 -1634.0  
1682 9.5 65145.0 -1632.4  
1683 9.4 65146.4 -1628.9  
1684 9.8 65151.0 -1652.5  
1685 8.5 65204.5 -1607.4  
1686 8.6 65205.5 -1657.1  
1687 9.1 65206.3 -1609.1  
1688 9.1 65206.7 -1620.4  
1689 10. 65221.4 -1646.3  
1690 9.9 65229.4 -1651.7  
  
1691 9.6 65229.4 -1601.4  
1692 9.0 65257.9 -1652.9  
1693 9.4 65309.8 -1608.4  
1694 8.9 65316.1 -1600.2  
1695 9.9 65319.8 -1627.0  
1696 10. 65320.4 -1617.2  
1697 9.3 65325.5 -1627.7  
1698 9.1 65330.2 -1629.4  
1699 9.3 65332.3 -1621.1  
1700 9.5 65336.9 -1613.6  
  
1701 8.2 65338.7 -1607.4  
1702 9.3 65353.0 -1650.2  
1703 9.8 65400.4 -1646.0  
1704 9.5 65401.3 -1658.1  
1705 8.8 65428.4 -1614.8  
1706 9.8 65431.0 -1604.7  
1707 9.8 65435.0 -1622.5  
1708 10. 65435.8 -1643.5  
1709 9.7 65442.1 -1655.4  
1710 10. 65447.9 -1610.9  
  
1711 9.5 65503.2 -1635.4  
1712 9.4 65511.3 -1603.5  
1713 9.8 65517.4 -1625.4  
1714 9.0 65518.0 -1652.4  
1715 9.4 65528.9 -1627.1  
1716 8.3 65535.6 -1635.1  
1717 9.7 65543.0 -1617.9  
1718 9.5 65557.3 -1622.2  
1719 9.8 65607.0 -1644.7  
1720 8.8 65610.2 -1646.5  
  
1721 9.3 65612.7 -1618.8  
1722 9.5 65612.9 -1607.3  
1723 7.2 65619.5 -1629.5  
1724 9.4 65620.9 -1626.6  
1725 9.9 65635.1 -1632.3  
1726 9.2 65637.4 -1633.0  
1727 9.5 65642.3 -1623.1  
1728 9.8 65646.6 -1628.0  
1729 9.1 65646.8 -1630.8  
1730 9.6 65648.3 -1633.8  
  
1731 9.8 65651.7 -1615.5  
1732 9.2 65702.1 -1633.4  
1733 9.8 65708.1 -1638.0  
1734 9.1 65715.6 -1600.6  
1735 9.5 65720.6 -1621.5  
1736 9.0 65730.4 -1641.3  
1737 9.8 65744.1 -1633.2  
1738 9.5 65752.3 -1654.5  
1739 9.8 65758.8 -1645.4  
1740 9.3 65808.0 -1651.4

1741 9.2 65812.2 -1642.3  
1742 9.7 65812.5 -1608.5  
1743 8.0 65818.4 -1604.3  
1744 9.0 65824.5 -1649.8  
1745 9.1 65830.2 -1620.8  
1746 9.2 65834.8 -1618.2  
1747 9.8 65843.1 -1645.3  
1748 9.4 65844.1 -1626.4  
1749 8.8 65846.1 -1618.2  
1750 9.0 65848.3 -1625.2  
  
1751 9.1 65854.9 -1607.8  
1752 9.6 65900.9 -1606.5  
1753 8.5 65905.4 -1628.6  
1754 9.1 65908.0 -1652.4  
1755 8.8 65915.2 -1622.9  
1756 9.1 65923.3 -1609.7  
1757 9.8 65923.8 -1629.8  
1758 9.8 65924.5 -1650.5  
1759 9.7 65927.7 -1630.8  
1760 10. 65928.9 -1651.1  
  
1761 9.0 65929.4 -1617.1  
1762 9.0 65942.3 -1600.1  
1763 9.1 65945.8 -1659.7  
1764 9.5 65948.3 -1613.1  
1765 9.5 65951.4 -1609.3  
1766 9.6 65951.7 -1606.1  
1767 9.3 65959.5 -1619.8  
1768 9.4 70014.7 -1641.3  
1769 9.0 70024.5 -1631.4  
1770 9.1 70026.8 -1635.3  
  
1771 10. 70027.1 -1634.2  
1772 9.6 70027.4 -1657.8  
1773 9.8 70029.6 -1652.3  
1774 8.9 70031.5 -1637.9  
1775 9.8 70038.3 -1611.6  
1776 9.3 70041.3 -1622.3  
1777 9.1 70044.6 -1636.7  
1778 10. 70048.0 -1627.4  
1779 9.3 70053.1 -1614.2  
1780 10. 70054.1 -1600.4  
  
1781 9.1 70104.9 -1654.9  
1782 9.0 70110.1 -1629.0  
1783 10. 70119.5 -1609.6  
1784 9.2 70129.3 -1621.1  
1785 9.7 70129.8 -1644.9  
1786 9.7 70130.1 -1643.0  
1787 9.2 70135.2 -1611.2  
1788 9.0 70146.9 -1618.2  
1789 9.5 70148.8 -1614.6  
1790 9.4 70155.1 -1606.4  
  
1791 10. 70157.5 -1652.4  
1792 9.6 70219.3 -1608.1  
1793 8.9 70224.5 -1617.3  
1794 9.8 70228.5 -1659.0  
1795 9.7 70232.0 -1602.8  
1796 9.7 70236.1 -1643.9  
1797 9.6 70236.3 -1602.3  
1798 9.3 70241.5 -1640.4  
1799 9.6 70246.4 -1614.6  
1800 9.7 70248.0 -1658.0  
  
1801 9.0 70300.1 -1642.1  
1802 6.0 70300.7 -1600.2  
1803 9.7 70306.2 -1630.5  
1804 10. 70312.3 -1607.1  
1805 9.5 70312.8 -1646.4  
1806 9.8 70314.5 -1657.8  
1807 9.7 70332.0 -1621.3  
1808 9.3 70335.0 -1600.6  
1809 10. 70339.9 -1645.0  
1810 9.6 70358.2 -1649.3  
  
1811 9.8 70401.6 -1636.9  
1812 10. 70413.7 -1645.0  
1813 9.8 70423.9 -1623.4  
1814 9.7 70437.4 -1628.8  
1815 10. 70437.5 -1656.6  
1816 9.8 70444.0 -1629.9  
1817 9.4 70444.3 -1653.4  
1818 9.7 70445.2 -1608.7  
1819 9.8 70447.8 -1623.7  
1820 9.8 70506.9 -1620.1  
  
1821 9.8 70511.8 -1644.7  
1822 9.6 70526.4 -1641.1  
1823 9.4 70527.1 -1642.7  
1824 9.8 70533.9 -1655.4  
1825 9.3 70540.8 -1627.5  
1826 9.7 70605.7 -1625.4  
1827 9.5 70606.0 -1621.4  
1828 9.1 70608.4 -1628.8  
1829 9.5 70608.4 -1616.2  
1830 9.2 70622.2 -1608.8

-16 1830 7h06m



-16 1831 7h06m

1831 9.5 70627.0 -1659.3  
1832 8.5 70635.0 -1624.4  
1833 9.4 70635.6 -1615.6  
1834 10. 70639.2 -1649.0  
1835 9.3 70641.3 -1638.7  
1836 9.2 70645.6 -1601.1  
1837 8.2 70712.8 -1605.4  
1838 9.8 70734.9 -1614.3  
1839 9.0 70740.5 -1626.5  
1840 9.7 70741.3 -1621.2

1841 9.5 70743.3 -1626.3  
1842 9.8 70753.1 -1634.3  
1843 10. 70808.1 -1628.8  
1844 10. 70809.4 -1610.2  
1845 9.0 70824.2 -1651.9  
1846 9.3 70825.3 -1630.7  
1847 9.3 70827.2 -1620.9  
1848 9.7 70827.4 -1635.2  
1849 9.8 70841.2 -1603.4  
1850 9.1 70848.1 -1619.5

1851 9.8 70853.5 -1631.6  
1852 9.5 70900.9 -1620.4  
1853 9.8 70903.1 -1617.7  
1854 9.9 70911.3 -1654.1  
1855 9.5 70914.9 -1622.3  
1856 9.0 70916.5 -1633.6  
1857 8.8 70926.7 -1629.5  
1858 9.1 70937.1 -1603.2  
1859 9.2 70945.1 -1656.4  
1860 8.0 70948.4 -1627.6

1861 9.7 71007.4 -1645.2  
1862 9.8 71009.9 -1656.2  
1863 9.1 71010.1 -1631.7  
1864 9.8 71011.2 -1641.3  
1865 9.8 71015.2 -1643.2  
1866 10. 71022.7 -1641.0  
1867 9.8 71025.4 -1654.3  
1868 9.5 71030.6 -1654.4  
1869 9.4 71032.4 -1620.9  
1870 8.9 71032.8 -1612.8

1871 9.6 71040.8 -1656.4  
1872 9.7 71044.2 -1623.0  
1873 9.0 71044.6 -1638.2  
1874 9.7 71045.1 -1658.3  
1875 9.6 71055.1 -1651.3  
1876 9.2 71058.8 -1654.5  
1877 9.6 71102.7 -1627.5  
1878 9.7 71105.1 -1646.4  
1879 9.2 71126.7 -1653.5  
1880 9.4 71140.0 -1653.1

1881 9.1 71146.2 -1634.0  
1882 9.4 71147.7 -1627.1  
1883 9.4 71153.8 -1647.6  
1884 9.2 71158.2 -1634.1  
1885 9.0 71158.5 -1656.0  
1886 8.0 71206.4 -1623.0  
1887 8.6 71211.8 -1601.2  
1888 9.7 71221.7 -1651.3  
1889 9.8 71222.2 -1637.6  
1890 9.8 71225.6 -1637.2

1891 9.4 71225.9 -1644.7  
1892 7.1 71234.3 -1656.8  
1893 9.3 71238.4 -1625.2  
1894 10. 71243.3 -1601.0  
1895 8.8 71247.6 -1632.0  
1896 9.8 71247.8 -1645.8  
1897 9.6 71253.7 -1643.0  
1898 5.9 71254.5 -1607.9  
1899 9.5 71302.8 -1650.6  
1900 10. 71308.9 -1622.3

1901 9.8 71325.6 -1638.8  
1902 9.4 71332.7 -1644.0  
1903 9.8 71341.4 -1641.9  
1904 8.7 71341.4 -1634.5  
1905 9.1 71344.3 -1646.2  
1906 9.8 71352.0 -1632.2  
1907 9.3 71403.4 -1627.3  
1908 9.5 71404.8 -1654.8  
1909 10. 71415.9 -1621.9  
1910 9.5 71424.7 -1641.8

1911 8.5 71432.5 -1632.0  
1912 9.5 71434.2 -1634.3  
1913 9.5 71441.2 -1657.9  
1914 8.7 71441.6 -1604.3  
1915 9.5 71448.6 -1643.9  
1916 9.7 71449.3 -1623.0  
1917 9.6 71455.2 -1637.9  
1918 9.3 71501.3 -1624.5  
1919 9.4 71503.7 -1600.9  
1920 9.4 71517.1 -1646.0

1921 9.1 71517.5 -1603.3  
1922 9.4 71520.8 -1615.5  
1923 7.2 71547.1 -1602.2  
1924 10. 71606.2 -1623.9  
1925 9.5 71611.3 -1622.8  
1926 9.3 71615.4 -1628.8  
1927 9.3 71615.4 -1606.0  
1928 7.8 71617.8 -1626.9  
1929 9.5 71624.7 -1646.0  
1930 9.6 71626.2 -1648.4

1931 9.2 71637.5 -1654.4  
1932 10. 71645.1 -1653.4  
1933 8.7 71651.3 -1617.5  
1934 9.7 71655.8 -1614.9  
1935 9.8 71705.5 -1619.9  
1936 9.4 71705.7 -1628.2  
1937 9.7 71706.2 -1602.8  
1938 9.5 71713.2 -1619.5  
1939 10. 71717.3 -1604.0  
1940 10. 71718.2 -1619.3

1941 9.8 71732.2 -1637.2  
1942 9.8 71753.9 -1605.8  
1943 9.8 71801.4 -1607.2  
1944 10. 71815.5 -1625.6  
1945 9.5 71827.1 -1619.0  
1946 9.5 71829.9 -1656.1  
1947 9.6 71832.9 -1618.2  
1948 9.8 71841.3 -1639.1  
1949 9.0 71846.5 -1610.6  
1950 9.4 71847.0 -1657.0

1951 9.5 71848.6 -1640.3  
1952 9.7 71901.0 -1644.4  
1953 10. 71902.4 -1633.5  
1954 9.1 71913.1 -1632.1  
1955 8.7 71921.3 -1655.2  
1956 9.8 71923.3 -1621.2  
1957 9.5 71930.9 -1629.9  
1958 8.9 71958.8 -1611.5  
1959 9.6 72000.8 -1642.3  
1960 9.6 72005.8 -1626.8

1961 10. 72020.0 -1633.7  
1962 10. 72040.8 -1613.0  
1963 8.9 72123.5 -1605.6  
1964 9.4 72126.5 -1632.8  
1965 9.7 72131.1 -1654.8  
1966 10. 72135.1 -1602.7  
1967 9.1 72148.9 -1624.4  
1968 10. 72202.1 -1604.5  
1969 8.7 72205.8 -1615.7  
1970 10. 72224.0 -1639.4

1971 10. 72231.9 -1607.5  
1972 10. 72233.1 -1610.5  
1973 8.7 72250.7 -1641.0  
1974 9.9 72252.6 -1615.6  
1975 9.5 72316.7 -1631.4  
1976 9.6 72324.3 -1607.9  
1977 9.8 72336.2 -1625.8  
1978 7.8 72341.0 -1646.0  
1979 9.9 72342.4 -1606.2  
1980 9.5 72347.8 -1603.2

1981 9.2 72355.5 -1629.1  
1982 9.8 72400.6 -1614.3  
1983 9.5 72407.4 -1613.6  
1984 9.5 72407.4 -1649.8  
1985 9.7 72409.0 -1621.9  
1986 8.8 72410.8 -1647.8  
1987 9.7 72423.9 -1609.8  
1988 9.5 72427.4 -1636.5  
1989 9.7 72439.7 -1617.0  
1990 10. 72452.7 -1632.1

1991 8.5 72456.0 -1600.2  
1992 9.3 72458.3 -1656.8  
1993 9.8 72458.5 -1636.4  
1994 9.0 72505.7 -1652.9  
1995 7.9 72506.9 -1653.5  
1996 9.4 72510.4 -1646.3  
1997 9.0 72510.9 -1654.0  
1998 9.5 72511.6 -1644.7  
1999 9.2 72515.5 -1641.4  
2000 9.6 72523.1 -1616.2

2001 8.2 72541.8 -1639.4  
2002 9.7 72542.7 -1613.5  
2003 9.9 72553.4 -1635.7  
2004 9.7 72559.7 -1621.8  
2005 9.9 72604.0 -1616.7  
2006 8.9 72604.8 -1631.2  
2007 9.8 72609.1 -1654.5  
2008 8.3 72611.0 -1616.7  
2009 9.8 72619.4 -1637.9  
2010 8.7 72619.7 -1601.1

2011 9.4 72623.1 -1604.2  
2012 8.8 72624.9 -1654.9  
2013 9.6 72656.0 -1633.2  
2014 9.5 72659.2 -1628.0  
2015 9.2 72701.6 -1658.1  
2016 9.8 72704.0 -1652.8  
2017 9.7 72708.3 -1653.5  
2018 9.9 72711.2 -1605.7  
2019 10. 72723.1 -1644.5  
2020 9.3 72736.9 -1631.7

2021 9.6 72748.2 -1642.2  
2022 9.7 72806.1 -1636.0  
2023 10. 72809.6 -1655.0  
2024 9.8 72811.4 -1639.8  
2025 9.4 72814.1 -1659.4  
2026 9.7 72816.6 -1647.3  
2027 8.6 72823.8 -1648.0  
2028 10. 72830.4 -1611.4  
2029 9.7 72836.7 -1619.2  
2030 9.8 72843.5 -1642.9

2031 8.6 72846.3 -1605.3  
2032 9.7 72848.1 -1613.1  
2033 9.8 72850.3 -1614.9  
2034 9.4 72853.7 -1639.5  
2035 9.4 72858.1 -1622.0  
2036 9.1 72861.1 -1650.5  
2037 7.9 72865.6 -1634.5  
2038 10. 72869.4 -1620.9  
2039 9.7 72940.5 -1659.3  
2040 9.7 72940.8 -1635.2

2041 8.5 72945.5 -1652.1  
2042 9.5 73002.8 -1639.9  
2043 9.5 73003.0 -1631.8  
2044 10. 73014.7 -1639.7  
2045 9.5 73018.5 -1644.2  
2046 10. 73022.1 -1649.6  
2047 9.6 73032.9 -1613.3  
2048 9.8 73038.6 -1658.8  
2049 9.5 73049.6 -1637.8  
2050 9.2 73055.2 -1609.4

2051 9.8 73101.5 -1613.5  
2052 8.3 73105.7 -1605.5  
2053 9.7 73109.5 -1628.8  
2054 9.7 73111.3 -1658.4  
2055 9.6 73112.1 -1625.3  
2056 9.7 73130.2 -1608.9  
2057 9.2 73141.4 -1653.8  
2058 9.5 73202.8 -1638.5  
2059 9.7 73205.5 -1614.7  
2060 9.2 73205.9 -1623.2

2061 9.3 73211.8 -1603.1  
2062 8.9 73213.7 -1603.2  
2063 8.6 73221.8 -1606.2  
2064 9.5 73225.2 -1627.8  
2065 9.5 73247.1 -1610.5  
2066 9.8 73248.1 -1655.9  
2067 9.8 73248.6 -1607.2  
2068 8.8 73248.7 -1620.8  
2069 6.3 73251.8 -1630.8  
2070 9.7 73302.1 -1603.0

2071 9.6 73321.7 -1618.0  
2072 9.8 73321.8 -1602.1  
2073 9.7 73324.2 -1611.2  
2074 8.5 73333.4 -1613.5  
2075 9.5 73336.3 -1606.9  
2076 8.7 73336.8 -1650.7  
2077 9.5 73404.9 -1645.4  
2078 9.8 73421.0 -1607.2  
2079 9.0 73425.0 -1610.7  
2080 8.9 73428.4 -1609.6

2081 8.0 73437.6 -1648.7  
2082 10. 73502.1 -1613.6  
2083 9.8 73502.9 -1618.7  
2084 10. 73518.4 -1630.2  
2085 9.5 73518.6 -1610.5  
2086 10. 73522.0 -1607.9  
2087 9.2 73536.8 -1658.9  
2088 10. 73537.2 -1638.0  
2089 8.7 73541.4 -1646.8  
2090 9.4 73553.7 -1635.7

2091 10. 73601.2 -1655.7  
2092 9.0 73607.4 -1618.2  
2093 6.8 73626.8 -1643.0  
2094 10. 73636.9 -1607.2  
2095 9.8 73638.0 -1622.2  
2096 9.3 73643.7 -1654.2  
2097 9.1 73645.7 -1655.9  
2098 9.5 73653.2 -1621.8  
2099 9.3 73657.3 -1658.8  
2100 9.6 73658.7 -1601.1

-16 2190 7h48m

2101 8.2 73734.1 -1635.2  
2102 9.8 73739.2 -1644.4  
2103 10. 73741.6 -1617.4  
2104 9.4 73743.9 -1620.0  
2105 8.1 73804.7 -1656.5  
2106 9.4 73807.7 -1659.9  
2107 9.0 73824.1 -1633.1  
2108 9.8 73827.8 -1658.3  
2109 9.2 73846.2 -1630.2  
2110 9.3 73847.9 -1633.2

2111 8.7 73848.3 -1614.3  
2112 9.3 73859.0 -1614.8  
2113 9.2 73907.1 -1637.5  
2114 9.8 73908.8 -1612.8  
2115 9.7 73912.8 -1653.2  
2116 9.0 73913.3 -1659.0  
2117 9.3 73924.1 -1640.2  
2118 9.3 73926.9 -1615.6  
2119 9.1 73934.3 -1613.4  
2120 9.3 73945.3 -1600.2

2121 9.3 73957.6 -1617.4  
2122 9.0 74004.8 -1647.9  
2123 9.9 74007.0 -1612.3  
2124 9.0 74016.9 -1625.0  
2125 9.8 74031.8 -1604.9  
2126 9.5 74034.9 -1613.3  
2127 9.3 74048.4 -1606.7  
2128 9.5 74054.2 -1640.2  
2129 9.5 74056.0 -1642.6  
2130 9.3 74131.3 -1659.7

2131 9.8 74132.8 -1655.8  
2132 9.8 74133.7 -1609.7  
2133 9.8 74153.0 -1634.4  
2134 9.7 74201.8 -1658.6  
2135 10. 74202.0 -1619.8  
2136 8.7 74202.5 -1611.4  
2137 9.7 74218.9 -1627.0  
2138 9.3 74236.3 -1657.5  
2139 9.6 74239.7 -1604.6  
2140 9.8 74240.0 -1638.9

2141 9.8 74240.7 -1657.1  
2142 9.5 74244.6 -1644.7  
2143 9.4 74252.1 -1658.3  
2144 9.3 74252.5 -1614.8  
2145 8.5 74300.9 -1629.4  
2146 5.0 74308.8 -1651.3  
2147 9.8 74311.2 -1610.7  
2148 9.0 74318.4 -1648.7  
2149 9.5 74320.9 -1621.1  
2150 9.5 74329.7 -1659.7

2151 9.8 74338.2 -1600.7  
2152 9.5 74349.9 -1622.1  
2153 9.7 74352.2 -1659.1  
2154 9.1 74358.6 -1642.1  
2155 9.7 74407.9 -1614.7  
2156 9.7 74408.7 -1606.6  
2157 9.0 74410.5 -1630.1  
2158 9.4 74416.4 -1613.0  
2159 9.8 74424.1 -1659.4  
2160 9.0 74427.7 -1644.5

2161 10. 74442.7 -1651.2  
2162 8.2 74452.7 -1614.2  
2163 8.5 74456.1 -1639.6  
2164 9.4 74501.8 -1627.5  
2165 9.5 74515.9 -1623.8  
2166 9.1 74519.8 -1625.8  
2167 9.4 74524.4 -1622.9  
2168 8.7 74551.1 -1648.8  
2169 9.0 74605.1 -1643.6  
2170 9.8 74607.4 -1603.6

2171 9.3 74615.0 -1641.4  
2172 9.2 74625.7 -1648.3  
2173 9.1 74639.0 -1648.0  
2174 9.6 74642.3 -1625.2  
2175 8.7 74647.3 -1627.0  
2176 10. 74653.2 -1659.9  
2177 10. 74655.9 -1612.6  
2178 8.9 74659.1 -1651.4  
2179 9.7 74704.5 -1606.0  
2180 8.2 74707.0 -1628.7

2181 9.8 74715.4 -1621.1  
2182 9.4 74723.9 -1638.4  
2183 9.3 74732.5 -1605.8  
2184 9.6 74735.6 -1629.7  
2185 9.5 74742.8 -1608.5  
2186 9.7 74743.1 -1649.0  
2187 9.7 74744.5 -1657.8  
2188 9.4 74748.8 -1616.5  
2189 9.3 74749.0 -1626.8  
2190 9.1 74757.5 -1608.0



-16 2191 7h48m

2191 9.8 74838.2 -1650.4  
2192 9.0 74839.9 -1641.6  
2193 9.1 74841.4 -1619.8  
2194 9.5 74857.2 -1634.8  
2195 9.6 74903.1 -1633.7  
2196 10. 74908.5 -1613.7  
2197 10. 74910.1 -1610.6  
2198 9.4 74913.2 -1636.5  
2199 9.0 74927.5 -1610.0  
2200 8.9 74932.0 -1611.3  
  
2201 9.2 74940.1 -1636.8  
2202 9.7 74944.8 -1602.3  
2203 9.9 74946.5 -1604.5  
2204 9.3 75003.3 -1623.4  
2205 7.8 75003.5 -1614.8  
2206 7.0 75004.7 -1608.7  
2207 9.0 75048.2 -1629.1  
2208 9.3 75049.6 -1637.2  
2209 9.1 75052.4 -1625.0  
2210 9.5 75056.2 -1641.9  
  
2211 9.4 75057.1 -1643.7  
2212 10. 75104.9 -1618.0  
2213 9.8 75112.0 -1656.4  
2214 10. 75115.2 -1638.3  
2215 9.3 75117.6 -1616.9  
2216 9.8 75118.1 -1600.8  
2217 9.8 75119.1 -1610.4  
2218 10. 75141.8 -1612.3  
2219 10. 75150.8 -1601.8  
2220 9.9 75151.7 -1626.1  
  
2221 9.3 75202.7 -1643.3  
2222 9.3 75205.4 -1655.7  
2223 9.4 75211.3 -1618.8  
2224 7.3 75220.6 -1639.7  
2225 8.7 75222.5 -1632.4  
2226 8.1 75241.9 -1627.0  
2227 8.0 75242.6 -1617.5  
2228 9.8 75244.4 -1629.0  
2229 9.0 75247.8 -1647.3  
2230 9.5 75250.3 -1606.6  
  
2231 9.5 75310.1 -1604.6  
2232 9.5 75313.8 -1659.9  
2233 9.0 75317.9 -1651.0  
2234 9.3 75322.9 -1616.7  
2235 9.7 75327.9 -1655.7  
2236 9.3 75330.8 -1651.7  
2237 7.0 75336.3 -1633.5  
2238 9.5 75336.4 -1603.6  
2239 9.6 75349.3 -1636.7  
2240 7.5 75354.7 -1638.3  
  
2241 10. 75403.2 -1649.9  
2242 8.8 75404.1 -1610.5  
2243 9.4 75412.7 -1600.0  
2244 9.8 75415.5 -1632.6  
2245 9.4 75420.0 -1647.6  
2246 10. 75433.9 -1604.2  
2247 9.0 75436.0 -1645.6  
2248 9.8 75444.4 -1659.9  
2249 9.3 75449.3 -1620.9  
2250 9.1 75452.0 -1657.9  
  
2251 9.4 75501.3 -1621.2  
2252 9.8 75523.3 -1610.0  
2253 9.5 75543.1 -1615.5  
2254 10. 75548.9 -1624.1  
2255 8.9 75556.4 -1629.5  
2256 9.4 75611.5 -1632.7  
2257 8.3 75612.5 -1618.2  
2258 9.4 75624.8 -1626.2  
2259 9.3 75629.0 -1604.2  
2260 9.7 75638.3 -1611.9  
  
2261 9.8 75640.3 -1625.7  
2262 9.9 75641.5 -1621.4  
2263 8.2 75644.0 -1616.5  
2264 9.3 75649.9 -1643.4  
2265 9.8 75652.4 -1633.1  
2266 9.0 75707.6 -1606.9  
2267 9.2 75709.0 -1637.5  
2268 9.8 75712.0 -1619.9  
2269 9.4 75727.8 -1625.7  
2270 9.8 75729.3 -1639.9  
  
2271 9.0 75732.4 -1605.7  
2272 8.7 75740.0 -1651.5  
2273 9.8 75744.6 -1601.9  
2274 9.0 75800.8 -1625.8  
2275 9.8 75816.1 -1607.3  
2276 10. 75817.7 -1635.5  
2277 7.8 75832.0 -1636.7  
2278 9.2 75834.7 -1648.3  
2279 8.6 75836.7 -1615.1  
2280 9.1 75838.0 -1612.9

2281 9.6 75848.5 -1641.7  
2282 10. 75859.0 -1617.3  
2283 9.8 75859.0 -1622.8  
2284 9.4 75904.2 -1621.2  
2285 9.3 75921.7 -1621.1  
2286 9.1 75924.3 -1624.0  
2287 9.0 75937.3 -1623.8  
2288 9.5 75938.5 -1639.8  
2289 9.0 75948.4 -1656.1  
2290 9.4 75949.6 -1602.5  
  
2291 8.5 75953.1 -1646.8  
2292 9.3 75953.4 -1653.8  
2293 9.5 75955.6 -1620.5  
2294 9.8 80002.1 -1616.3  
2295 8.0 80004.7 -1652.8  
2296 9.1 80010.5 -1636.0  
2297 9.0 80011.3 -1632.0  
2298 10. 80017.6 -1648.5  
2299 9.4 80025.9 -1600.5  
2300 9.3 80027.5 -1610.8  
  
2301 9.8 80031.3 -1634.5  
2302 9.5 80031.7 -1616.1  
2303 9.6 80041.4 -1608.3  
2304 6.8 80041.9 -1657.3  
2305 9.8 80043.0 -1640.5  
2306 9.2 80058.5 -1655.9  
2307 9.8 80106.5 -1627.3  
2308 9.2 80113.5 -1655.9  
2309 9.5 80124.4 -1635.0  
2310 9.0 80125.9 -1635.7  
  
2311 9.8 80127.8 -1612.7  
2312 9.5 80147.2 -1602.4  
2313 9.5 80151.1 -1645.6  
2314 10. 80152.2 -1655.7  
2315 9.8 80200.9 -1659.9  
2316 9.1 80211.2 -1653.6  
2317 9.2 80219.3 -1632.4  
2318 9.4 80220.8 -1649.4  
2319 8.6 80239.8 -1656.1  
2320 9.8 80257.1 -1646.7  
  
2321 10. 80300.5 -1628.5  
2322 9.1 80305.0 -1645.0  
2323 9.0 80313.3 -1632.3  
2324 9.3 80315.2 -1631.0  
2325 10. 80318.6 -1600.5  
2326 9.5 80339.7 -1653.3  
2327 9.5 80350.5 -1646.6  
2328 9.2 80351.4 -1618.2  
2329 9.0 80352.3 -1656.5  
2330 9.8 80407.8 -1658.2  
  
2331 9.0 80410.5 -1609.0  
2332 9.1 80412.8 -1657.7  
2333 9.8 80426.1 -1615.3  
2334 8.6 80430.2 -1604.9  
2335 9.8 80431.1 -1618.4  
2336 9.8 80445.0 -1615.7  
2337 9.0 80445.9 -1636.5  
2338 9.8 80451.6 -1651.7  
2339 9.2 80503.8 -1637.9  
2340 9.3 80504.9 -1604.6  
  
2341 8.6 80510.2 -1618.5  
2342 9.8 80513.2 -1632.3  
2343 9.4 80513.2 -1654.0  
2344 9.1 80528.7 -1627.7  
2345 8.8 80535.8 -1600.0  
2346 9.4 80543.8 -1618.5  
2347 9.6 80557.4 -1641.2  
2348 9.8 80632.0 -1648.3  
2349 10. 80633.3 -1638.2  
2350 8.7 80638.2 -1611.1  
  
2351 9.3 80654.9 -1602.6  
2352 8.5 80700.8 -1641.6  
2353 9.0 80715.0 -1643.4  
2354 9.5 80715.5 -1617.2  
2355 10. 80719.0 -1652.1  
2356 10. 80731.1 -1624.9  
2357 9.8 80741.2 -1629.0  
2358 9.4 80750.5 -1649.6  
2359 9.4 80759.6 -1621.5  
2360 9.8 80801.8 -1636.9  
  
2361 9.5 80802.9 -1613.2  
2362 9.6 80819.9 -1614.9  
2363 6.8 80820.3 -1649.8  
2364 9.9 80821.4 -1609.9  
2365 9.1 80824.5 -1646.8  
2366 9.5 80824.9 -1614.4  
2367 9.1 80830.0 -1600.2  
2368 8.7 80846.2 -1612.1  
2369 9.8 80846.9 -1645.9  
2370 9.5 80849.6 -1658.5

2371 9.5 80853.0 -1617.5  
2372 10. 80902.3 -1603.7  
2373 9.0 80926.0 -1655.6  
2374 9.3 80934.7 -1600.0  
2375 9.4 80948.4 -1655.4  
2376 8.2 81000.8 -1611.9  
2377 9.5 81011.9 -1645.8  
2378 10. 81017.0 -1613.2  
2379 9.1 81018.1 -1628.3  
2380 10. 81025.3 -1602.6  
  
2381 9.0 81039.0 -1656.5  
2382 8.8 81042.7 -1600.0  
2383 10. 81048.4 -1645.0  
2384 9.8 81104.3 -1635.7  
2385 9.8 81107.3 -1616.3  
2386 9.5 81107.5 -1649.1  
2387 8.0 81122.6 -1624.8  
2388 9.8 81123.4 -1617.8  
2389 8.5 81136.5 -1620.9  
2390 9.5 81150.8 -1643.0  
  
2391 9.4 81156.7 -1627.0  
2392 9.6 81201.2 -1605.3  
2393 9.7 81223.7 -1604.9  
2394 9.6 81236.4 -1610.3  
2395 8.3 81239.0 -1624.5  
2396 10. 81243.2 -1633.4  
2397 9.4 81246.4 -1644.8  
2398 9.6 81249.8 -1614.4  
2399 9.8 81252.5 -1601.0  
2400 9.8 81314.9 -1644.9  
  
2401 10. 81333.2 -1634.3  
2402 9.5 81334.1 -1611.2  
2403 8.8 81352.3 -1644.5  
2404 8.0 81417.4 -1654.1  
2405 8.3 81436.6 -1632.9  
2406 9.7 81442.0 -1610.8  
2407 9.3 81444.0 -1627.3  
2408 9.5 81451.3 -1609.9  
2409 10. 81453.8 -1623.0  
2410 8.6 81500.6 -1617.9  
  
2411 9.5 81509.5 -1655.0  
2412 10. 81536.4 -1614.5  
2413 9.6 81542.3 -1615.5  
2414 9.2 81545.5 -1654.0  
2415 9.1 81534.1 -1631.7  
2416 9.0 81539.4 -1606.0  
2417 8.7 81608.8 -1617.4  
2418 9.5 81617.4 -1643.6  
2419 10. 81650.7 -1634.9  
2420 9.5 81632.3 -1652.6  
  
2421 8.8 81635.6 -1648.1  
2422 9.5 81648.2 -1637.1  
2423 9.2 81649.7 -1650.5  
2424 8.6 81650.1 -1611.5  
2425 9.2 81705.8 -1642.6  
2426 9.8 81709.7 -1609.9  
2427 8.7 81716.1 -1637.7  
2428 9.8 81726.4 -1609.4  
2429 9.0 81728.6 -1625.1  
2430 9.5 81739.2 -1655.4  
  
2431 9.7 81741.7 -1618.8  
2432 9.6 81751.3 -1647.0  
2433 9.4 81759.6 -1605.0  
2434 9.2 81800.3 -1615.2  
2435 9.4 81809.8 -1642.4  
2436 9.3 81810.1 -1637.7  
2437 9.5 81812.9 -1600.0  
2438 9.0 81824.1 -1619.1  
2439 9.8 81829.4 -1617.9  
2440 8.2 81848.6 -1630.8  
  
2441 9.6 81901.0 -1654.5  
2442 6.7 81902.4 -1657.9  
2443 9.3 81902.4 -1650.9  
2444 9.7 81908.7 -1619.2  
2445 9.6 81909.1 -1603.9  
2446 9.4 81924.6 -1622.5  
2447 9.5 81925.0 -1619.1  
2448 9.1 81935.8 -1644.2  
2449 9.8 81945.0 -1612.2  
2450 9.4 81957.3 -1645.8  
  
2451 9.7 82029.2 -1637.1  
2452 10. 82031.3 -1619.4  
2453 9.0 82037.1 -1603.8  
2454 10. 82056.2 -1641.0  
2455 9.3 82105.2 -1638.8  
2456 9.5 82106.1 -1634.6  
2457 8.0 82114.9 -1623.8  
2458 9.4 82115.6 -1607.9  
2459 9.1 82119.1 -1637.2  
2460 9.4 82119.9 -1605.2

2461 8.8 82140.3 -1614.7  
2462 9.7 82141.9 -1604.1  
2463 9.0 82142.5 -1656.3  
2464 8.6 82151.1 -1654.8  
2465 9.1 82152.2 -1644.7  
2466 9.8 82157.4 -1632.5  
2467 10. 82214.7 -1625.3  
2468 9.4 82221.3 -1625.3  
2469 9.7 82221.6 -1617.0  
2470 10. 82225.0 -1640.0  
  
2471 9.5 82234.8 -1600.9  
2472 9.3 82234.8 -1638.8  
2473 9.8 82238.0 -1635.4  
2474 8.3 82253.0 -1619.4  
2475 10. 82259.5 -1641.0  
2476 9.4 82302.7 -1610.0  
2477 9.0 82309.6 -1639.0  
2478 8.2 82319.6 -1613.7  
2479 9.1 82331.1 -1654.9  
2480 8.0 82332.3 -1620.6  
  
2481 9.4 82335.8 -1658.8  
2482 9.4 82341.2 -1603.1  
2483 9.6 82409.3 -1656.8  
2484 8.5 82412.3 -1658.8  
2485 9.0 82422.0 -1631.3  
2486 9.5 82422.9 -1647.8  
2487 9.9 82427.4 -1616.6  
2488 8.5 82439.9 -1631.4  
2489 9.8 82455.9 -1658.3  
2490 9.4 82501.2 -1648.2  
  
2491 9.3 82503.2 -1611.3  
2492 9.8 82517.6 -1640.2  
2493 8.9 82519.3 -1623.9  
2494 9.2 82519.5 -1602.1  
2495 10. 82539.8 -1621.2  
2496 8.7 82549.9 -1618.3  
2497 9.4 82557.0 -1652.2  
2498 9.6 82617.1 -1616.2  
2499 9.2 82630.5 -1627.5  
2500 10. 82634.4 -1648.9  
  
2501 10. 82639.7 -1619.8  
2502 10. 82641.3 -1612.8  
2503 9.0 82641.4 -1659.2  
2504 8.8 82641.6 -1630.8  
2505 9.2 82707.6 -1647.8  
2506 9.4 82709.2 -1632.8  
2507 9.0 82719.3 -1628.4  
2508 9.8 82722.9 -1605.4  
2509 8.8 82745.7 -1609.2  
2510 9.0 82803.9 -1619.0  
  
2511 10. 82831.3 -1629.2  
2512 9.8 82848.8 -1627.2  
2513 9.1 82849.2 -1651.7  
2514 9.5 82901.6 -1644.3  
2515 9.8 82905.1 -1649.2  
2516 9.1 82923.4 -1610.3  
2517 9.3 82934.0 -1607.5  
2518 9.8 82943.6 -1652.9  
2519 8.5 82949.7 -1654.1  
2520 9.3 83016.8 -1615.6  
  
2521 9.8 83021.2 -1657.3  
2522 9.8 83025.6 -1651.7  
2523 9.3 83034.0 -1607.6  
2524 9.5 83034.3 -1654.5  
2525 8.3 83037.4 -1659.7  
2526 9.1 83039.7 -1626.2  
2527 8.8 83047.8 -1643.2  
2528 9.3 83102.0 -1609.5  
2529 9.4 83103.9 -1612.0  
2530 9.8 83104.2 -1608.1  
  
2531 9.2 83127.3 -1634.0  
2532 8.5 83133.5 -1646.5  
2533 9.8 83144.0 -1648.7  
2534 8.1 83145.4 -1629.7  
2535 9.8 83157.6 -1650.3  
2536 9.4 83220.2 -1630.6  
2537 9.0 83222.0 -1647.4  
2538 9.0 83243.6 -1654.7  
2539 9.5 83245.5 -1620.5  
2540 10. 83303.8 -1656.8  
  
2541 6.5 83314.0 -1647.4  
2542 9.0 83320.9 -1644.8  
2543 9.5 83323.3 -1635.2  
2544 9.8 83334.3 -1634.7  
2545 9.5 83339.9 -1659.4  
2546 9.3 83339.9 -1607.3  
2547 9.2 83345.3 -1656.9  
2548 9.5 83348.6 -1602.8  
2549 9.4 83358.1 -1626.8  
2550 8.0 83414.8 -1649.6

-16 2550 8h34m



-16 2551 8h34m

2551 9.2 83417.8 -1601.6  
2552 9.8 83432.5 -1650.0  
2553 9.4 83440.0 -1648.0  
2554 9.5 83441.3 -1640.0  
2555 9.0 83454.5 -1607.9  
2556 9.1 83503.6 -1644.6  
2557 9.8 83512.5 -1650.8  
2558 9.7 83517.0 -1657.9  
2559 7.6 83526.5 -1655.0  
2560 9.1 83558.6 -1653.5

2561 9.8 83601.7 -1613.5  
2562 8.5 83621.8 -1640.8  
2563 9.4 83638.0 -1623.4  
2564 9.0 83650.4 -1642.6  
2565 9.0 83658.3 -1603.0  
2566 8.0 83708.1 -1629.4  
2567 9.5 83723.2 -1606.4  
2568 9.0 83725.5 -1651.0  
2569 9.0 83727.4 -1625.4  
2570 10. 83729.7 -1613.4

2571 9.8 83736.5 -1653.3  
2572 9.5 83801.7 -1606.3  
2573 10. 83817.2 -1605.4  
2574 10. 83826.6 -1618.1  
2575 10. 83836.7 -1619.6  
2576 9.5 83853.4 -1621.8  
2577 9.8 83854.5 -1637.7  
2578 9.1 83856.9 -1623.8  
2579 8.5 83923.8 -1646.0  
2580 9.5 83925.9 -1650.7

2581 9.5 83946.1 -1610.0  
2582 9.8 83950.9 -1650.5  
2583 9.7 84001.5 -1659.1  
2584 9.5 84005.2 -1640.5  
2585 9.3 84011.1 -1632.6  
2586 9.0 84018.7 -1634.0  
2587 9.3 84025.0 -1621.8  
2588 9.7 84034.5 -1659.4  
2589 6.8 84039.5 -1631.1  
2590 8.6 84059.5 -1630.9

2591 9.7 84110.2 -1655.6  
2592 9.1 84113.4 -1657.4  
2593 9.0 84138.6 -1608.4  
2594 9.4 84219.7 -1603.0  
2595 9.1 84229.2 -1650.4  
2596 9.2 84229.3 -1632.6  
2597 9.5 84240.9 -1639.4  
2598 9.8 84258.8 -1633.2  
2599 10. 84300.8 -1617.6  
2600 8.7 84318.4 -1642.3

2601 9.0 84324.8 -1656.1  
2602 9.5 84326.4 -1634.0  
2603 9.4 84337.5 -1608.8  
2604 9.7 84339.7 -1609.4  
2605 9.5 84355.5 -1614.5  
2606 9.5 84413.9 -1640.2  
2607 9.4 84421.0 -1638.3  
2608 10. 84449.8 -1626.1  
2609 9.0 84503.9 -1625.9  
2610 9.5 84505.5 -1643.1

2611 8.3 84518.5 -1621.6  
2612 9.3 84535.7 -1624.6  
2613 9.5 84538.9 -1629.5  
2614 9.5 84539.7 -1637.1  
2615 9.5 84559.8 -1626.9  
2616 9.4 84606.8 -1616.5  
2617 9.4 84608.3 -1623.9  
2618 6.5 84622.3 -1624.4  
2619 9.2 84627.6 -1615.6  
2620 9.1 84628.8 -1656.3

2621 9.4 84629.4 -1612.4  
2622 9.2 84635.5 -1657.3  
2623 9.5 84637.6 -1627.0  
2624 8.9 84649.9 -1640.7  
2625 7.5 84654.4 -1648.3  
2626 8.2 84701.8 -1640.2  
2627 9.4 84704.5 -1649.8  
2628 9.1 84721.4 -1642.0  
2629 9.8 84756.0 -1611.7  
2630 10. 84801.1 -1605.2

2631 8.6 84848.3 -1639.7  
2632 9.6 84849.7 -1621.3  
2633 9.8 84915.3 -1617.0  
2634 8.7 84919.3 -1613.4  
2635 9.1 84923.8 -1625.5  
2636 9.8 84938.9 -1638.0  
2637 10. 84946.8 -1600.1  
2638 10. 84947.3 -1634.3  
2639 6.2 84950.2 -1609.1  
2640 8.8 85004.7 -1628.0

2641 9.8 85005.6 -1648.5  
2642 10. 85007.4 -1657.4  
2643 9.7 85007.6 -1651.3  
2644 7.2 85008.0 -1652.6  
2645 9.5 85018.4 -1606.2  
2646 10. 85019.9 -1631.9  
2647 9.8 85026.1 -1633.6  
2648 8.5 85109.6 -1645.1  
2649 8.7 85119.5 -1615.9  
2650 9.6 85124.6 -1618.6

2651 9.9 85147.6 -1636.9  
2652 8.0 85153.2 -1647.6  
2653 7.1 85201.9 -1611.6  
2654 9.5 85210.3 -1657.5  
2655 9.2 85217.6 -1648.6  
2656 10. 85227.1 -1652.2  
2657 9.8 85242.0 -1634.1  
2658 8.2 85254.2 -1637.8  
2659 8.8 85258.4 -1609.8  
2660 9.9 85310.0 -1601.4

2661 10. 85331.4 -1614.7  
2662 9.8 85357.0 -1643.0  
2663 8.6 85409.9 -1630.6  
2664 9.3 85442.0 -1641.5  
2665 9.5 85448.4 -1626.3  
2666 10. 85532.4 -1606.3  
2667 9.4 85532.9 -1631.1  
2668 9.9 85604.5 -1644.1  
2669 10. 85616.3 -1647.3  
2670 9.2 85633.8 -1653.8

2671 9.4 85653.3 -1614.6  
2672 6.8 85701.8 -1655.4  
2673 9.0 85705.0 -1659.5  
2674 9.5 85716.9 -1651.5  
2675 9.4 85717.3 -1619.0  
2676 9.0 85724.8 -1636.5  
2677 9.5 85733.9 -1644.8  
2678 9.2 85739.9 -1643.2  
2679 7.7 85756.6 -1639.7  
2680 10. 85801.8 -1635.6

2681 8.2 85835.0 -1645.7  
2682 8.9 85933.0 -1633.8  
2683 9.1 85943.2 -1629.6  
2684 8.8 85955.2 -1617.5  
2685 9.8 90023.9 -1646.3  
2686 9.8 90033.6 -1613.5  
2687 9.8 90054.4 -1649.9  
2688 9.4 90114.8 -1637.2  
2689 9.6 90119.2 -1610.2  
2690 8.5 90140.5 -1618.3

2691 8.5 90153.7 -1639.8  
2692 9.2 90205.1 -1631.5  
2693 9.4 90213.8 -1646.3  
2694 8.1 90219.9 -1610.6  
2695 9.8 90241.3 -1658.9  
2696 9.9 90249.2 -1611.2  
2697 10. 90257.8 -1615.1  
2698 9.8 90272.5 -1626.0  
2699 9.5 90275.3 -1651.0  
2700 10. 90324.1 -1603.4

2701 7.2 90324.9 -1616.6  
2702 9.5 90338.2 -1643.3  
2703 8.5 90349.6 -1623.0  
2704 9.5 90353.4 -1655.8  
2705 10. 90409.0 -1612.1  
2706 8.3 90500.4 -1613.3  
2707 9.7 90506.8 -1654.0  
2708 9.0 90507.7 -1623.8  
2709 9.5 90511.9 -1657.4  
2710 9.1 90512.5 -1625.8

2711 9.3 90518.6 -1602.0  
2712 10. 90536.5 -1610.5  
2713 10. 90554.0 -1609.4  
2714 9.4 90556.8 -1630.9  
2715 8.4 90600.3 -1612.0  
2716 9.2 90608.5 -1655.5  
2717 9.5 90624.8 -1653.5  
2718 9.3 90645.4 -1622.9  
2719 8.8 90649.9 -1609.6  
2720 9.1 90717.6 -1636.7

2721 9.6 90737.4 -1648.9  
2722 9.3 90739.2 -1651.7  
2723 9.3 90753.8 -1657.3  
2724 10. 90806.0 -1604.0  
2725 9.8 90816.6 -1614.3  
2726 10. 90824.2 -1630.7  
2727 9.4 90832.9 -1610.9  
2728 9.4 90857.0 -1620.0  
2729 10. 90858.3 -1658.3  
2730 10. 90908.6 -1642.3

2731 9.5 90910.6 -1649.2  
2732 9.7 90913.4 -1632.5  
2733 9.6 90925.1 -1622.2  
2734 9.6 90935.5 -1600.2  
2735 8.3 90954.6 -1614.1  
2736 10. 91003.1 -1654.5  
2737 9.1 91014.2 -1659.9  
2738 9.1 91019.7 -1653.3  
2739 10. 91026.9 -1633.6  
2740 9.1 91114.0 -1623.7

2741 9.9 91127.5 -1641.4  
2742 8.2 91137.9 -1601.3  
2743 9.7 91145.8 -1634.7  
2744 8.7 91152.4 -1636.0  
2745 9.8 91154.0 -1622.1  
2746 9.8 91154.1 -1630.1  
2747 9.7 91159.5 -1646.5  
2748 8.6 91209.1 -1612.6  
2749 7.0 91210.4 -1611.4  
2750 9.8 91220.7 -1658.9

2751 8.5 91223.9 -1634.7  
2752 9.4 91240.3 -1647.6  
2753 9.5 91240.6 -1623.5  
2754 9.1 91247.5 -1645.1  
2755 9.2 91251.0 -1651.6  
2756 9.7 91257.3 -1658.5  
2757 8.3 91339.9 -1648.4  
2758 9.5 91412.2 -1605.0  
2759 9.7 91418.1 -1614.3  
2760 9.5 91419.8 -1628.1

2761 9.2 91428.2 -1624.6  
2762 9.8 91431.4 -1642.4  
2763 9.8 91452.7 -1615.6  
2764 8.8 91546.1 -1617.1  
2765 9.5 91554.3 -1600.8  
2766 9.5 91604.4 -1653.1  
2767 8.5 91609.5 -1652.6  
2768 9.5 91611.1 -1616.2  
2769 9.5 91631.2 -1604.3  
2770 7.5 91641.8 -1602.6

2771 9.5 91655.5 -1654.0  
2772 9.5 91658.2 -1602.6  
2773 10. 91709.8 -1648.4  
2774 9.5 91723.4 -1617.5  
2775 9.1 91723.4 -1652.0  
2776 9.9 91751.6 -1620.7  
2777 10. 91806.7 -1642.9  
2778 7.2 91811.7 -1635.5  
2779 8.9 91829.6 -1628.6  
2780 9.3 91831.6 -1633.5

2781 9.7 91838.7 -1605.7  
2782 9.8 91903.8 -1643.6  
2783 10. 91917.1 -1622.4  
2784 9.4 91921.1 -1613.3  
2785 9.7 92008.9 -1617.5  
2786 8.7 92019.2 -1638.2  
2787 9.0 92021.1 -1601.7  
2788 9.7 92022.2 -1618.9  
2789 9.9 92024.8 -1649.4  
2790 10. 92025.7 -1638.9

2791 9.8 92037.4 -1603.5  
2792 9.8 92054.1 -1608.2  
2793 9.9 92057.3 -1627.5  
2794 10. 92057.4 -1643.6  
2795 10. 92128.0 -1655.7  
2796 8.9 92130.8 -1610.6  
2797 9.8 92138.9 -1655.3  
2798 9.8 92212.0 -1653.7  
2799 9.5 92220.6 -1634.6  
2800 8.9 92226.0 -1624.7

2801 8.8 92226.1 -1637.6  
2802 9.5 92232.0 -1621.4  
2803 9.5 92237.6 -1635.7  
2804 7.2 92238.7 -1652.3  
2805 9.8 92248.1 -1612.3  
2806 8.7 92321.7 -1658.2  
2807 9.8 92324.4 -1619.5  
2808 9.6 92329.3 -1612.8  
2809 9.2 92351.2 -1652.5  
2810 9.0 92409.9 -1655.4

2811 9.8 92430.4 -1609.8  
2812 8.8 92451.4 -1625.9  
2813 8.5 92506.7 -1610.0  
2814 8.8 92519.8 -1614.6  
2815 8.6 92520.9 -1645.0  
2816 9.4 92526.5 -1641.9  
2817 9.1 92540.1 -1647.5  
2818 9.8 92542.6 -1648.1  
2819 9.5 92551.0 -1603.8  
2820 10. 92603.4 -1633.0

-16 2910 9h46m

2821 10. 92611.6 -1602.9  
2822 9.9 92612.5 -1632.5  
2823 9.4 92619.2 -1653.7  
2824 9.0 92643.5 -1643.8  
2825 9.1 92645.8 -1628.0  
2826 9.3 92646.8 -1611.2  
2827 9.5 92647.1 -1650.2  
2828 9.0 92653.4 -1608.8  
2829 9.1 92719.2 -1654.8  
2830 10. 92728.3 -1626.0

2831 9.8 92736.0 -1644.1  
2832 9.1 92819.4 -1643.7  
2833 9.8 92859.9 -1604.2  
2834 9.1 92902.3 -1655.9  
2835 9.8 92908.0 -1647.2  
2836 8.3 92920.4 -1636.3  
2837 9.8 92924.8 -1622.9  
2838 8.6 92935.5 -1644.5  
2839 9.2 92940.5 -1649.4  
2840 9.3 92942.5 -1650.9

2841 9.5 93015.2 -1628.1  
2842 9.0 93032.8 -1603.0  
2843 8.8 93045.7 -1625.7  
2844 8.9 93113.4 -1600.3  
2845 9.0 93119.8 -1604.1  
2846 8.7 93120.9 -1640.3  
2847 9.8 93155.6 -1656.7  
2848 7.2 93210.4 -1658.4  
2849 9.2 93222.7 -1659.1  
2850 9.7 93231.1 -1641.1

2851 8.3 93310.6 -1630.1  
2852 8.8 93314.2 -1635.9  
2853 10. 93353.7 -1605.7  
2854 10. 93354.8 -1641.8  
2855 9.7 93401.3 -1659.0  
2856 10. 93415.6 -1624.5  
2857 8.0 93421.8 -1643.7  
2858 9.8 93427.0 -1616.7  
2859 10. 93429.9 -1606.4  
2860 9.5 93438.3 -1650.7

2861 9.8 93441.1 -1657.8  
2862 8.9 93450.6 -1657.8  
2863 9.2 93453.2 -1605.1  
2864 9.8 93502.1 -1626.5  
2865 9.8 93533.3 -1608.0  
2866 9.2 93551.5 -1600.6  
2867 9.0 93553.8 -1649.3  
2868 10. 93610.7 -1638.7  
2869 9.6 93636.1 -1659.8  
2870 9.6 93640.0 -1614.1

2871 8.5 93646.9 -1646.4  
2872 10. 93648.1 -1639.7  
2873 9.2 93649.0 -1634.5  
2874 9.6 93724.0 -1620.8  
2875 9.8 93734.7 -1623.7  
2876 9.8 93737.3 -1628.0  
2877 9.0 93754.8 -1621.0  
2878 8.4 93755.8 -1610.8  
2879 9.3 93806.9 -1620.5  
2880 9.2 93813.8 -1618.6

2881 9.8 93843.5 -1651.0  
2882 9.5 93925.5 -1624.7  
2883 9.8 93928.9 -1629.8  
2884 9.8 94002.6 -1649.1  
2885 8.6 94009.9 -1608.8  
2886 9.3 94014.4 -1619.8  
2887 7.0 94021.5 -1632.1  
2888 9.4 94032.1 -1617.0  
2889 8.8 94036.8 -1612.1  
2890 10. 94133.9 -1627.5

2891 9.0 94145.3 -1614.5  
2892 9.0 94155.6 -1612.7  
2893 9.0 94212.7 -1654.7  
2894 9.2 94213.2 -1627.5  
2895 9.0 94249.8 -1621.6  
2896 10. 94314.0 -1643.9  
2897 9.0 94328.5 -1620.3  
2898 9.2 94350.3 -1626.9  
2899 9.2 94358.4 -1632.9  
2900 9.3 94411.5 -1646.0

2901 8.9 94418.9 -1604.0  
2902 9.0 94433.6 -1654.1  
2903 9.6 94447.5 -1645.3  
2904 8.8 94504.8 -1640.2  
2905 9.3 94511.0 -1652.7  
2906 9.5 94511.3 -1623.3  
2907 10. 94523.2 -1640.9  
2908 9.4 94529.4 -1607.0  
2909 8.5 94540.5 -1645.3  
2910 9.7 94601.2 -1652.7



-16 2911 9h46m

2911 9.1 94606.8 -1612.5  
2912 9.8 94621.1 -1606.8  
2913 9.1 94636.3 -1627.4  
2914 10.1 94647.9 -1602.8  
2915 9.1 94649.4 -1648.6  
2916 10.1 94700.8 -1640.8  
2917 9.0 94738.4 -1640.6  
2918 9.1 94744.2 -1656.2  
2919 9.0 94801.8 -1604.4  
2920 9.9 94828.6 -1608.9

2921 7.2 94841.5 -1646.7  
2922 10.1 94929.5 -1623.6  
2923 8.6 94949.0 -1646.4  
2924 8.6 95010.1 -1655.8  
2925 10.1 95012.0 -1620.6  
2926 8.5 95017.3 -1603.5  
2927 9.3 95029.8 -1653.3  
2928 9.2 95032.6 -1645.3  
2929 9.4 95051.7 -1619.9  
2930 9.7 95052.2 -1604.0

2931 9.1 95123.7 -1617.4  
2932 9.5 95136.7 -1612.1  
2933 9.8 95141.5 -1637.4  
2934 10.1 95210.0 -1648.4  
2935 9.9 95222.8 -1602.3  
2936 9.5 95231.5 -1645.7  
2937 9.5 95248.7 -1605.5  
2938 8.8 95244.8 -1657.0  
2939 9.4 95319.9 -1656.0  
2940 9.5 95412.9 -1649.4

2941 9.2 95416.4 -1651.6  
2942 8.8 95432.8 -1640.3  
2943 8.0 95441.9 -1638.0  
2944 9.3 95451.6 -1618.1  
2945 9.6 95510.2 -1601.2  
2946 9.8 95611.3 -1650.3  
2947 8.9 95612.3 -1627.0  
2948 9.5 95624.3 -1603.0  
2949 8.0 95624.3 -1628.8  
2950 9.4 95626.4 -1642.5

2951 9.5 95637.2 -1636.8  
2952 9.8 95638.2 -1624.3  
2953 9.1 95645.3 -1646.5  
2954 9.3 95701.7 -1634.7  
2955 9.6 95750.9 -1630.7  
2956 10.1 95805.5 -1628.9  
2957 8.2 95814.5 -1615.0  
2958 9.8 95823.2 -1650.5  
2959 9.2 95828.1 -1655.6  
2960 9.8 95842.7 -1623.1

2961 9.8 95843.9 -1613.9  
2962 9.9 95905.7 -1637.0  
2963 9.5 95923.2 -1632.1  
2964 9.5 95935.4 -1618.1  
2965 9.3 95936.7 -1619.3  
2966 10.1 95947.0 -1601.3  
2967 8.6 95947.8 -1605.6  
2968 9.8 95956.6 -1612.7  
2969 7.0 95957.8 -1644.0  
2970 9.2 100001.4 -1619.2

2971 10.1 100007.7 -1653.5  
2972 9.9 100009.3 -1620.5  
2973 8.0 100009.7 -1646.6  
2974 5.3 100012.6 -1625.6  
2975 9.0 100013.4 -1641.2  
2976 10.1 100015.1 -1617.5  
2977 9.4 100023.2 -1659.7  
2978 9.0 100039.2 -1646.5  
2979 9.8 100045.1 -1628.7  
2980 9.9 100045.8 -1630.8

2981 9.8 100232.1 -1624.5  
2982 9.5 100311.6 -1651.1  
2983 9.2 100315.9 -1610.9  
2984 10.1 100323.5 -1640.0  
2985 9.8 100325.5 -1632.5  
2986 9.0 100333.3 -1603.8  
2987 7.5 100358.9 -1612.7  
2988 9.5 100420.4 -1618.3  
2989 7.7 100420.7 -1655.8  
2990 9.9 100424.4 -1605.0

2991 9.5 100433.1 -1621.3  
2992 9.5 100503.2 -1613.7  
2993 9.0 100524.9 -1625.1  
2994 9.2 100529.9 -1617.9  
2995 9.3 100541.5 -1620.6  
2996 9.6 100614.4 -1626.4  
2997 9.8 100630.4 -1626.0  
2998 9.8 100710.5 -1607.6  
2999 9.1 100711.3 -1627.2  
3000 9.8 100728.0 -1607.3

3001 9.1 100811.5 -1645.7  
3002 9.4 100816.0 -1605.9  
3003 10.1 100830.3 -1656.4  
3004 8.2 100815.8 -1641.6  
3005 9.5 100917.2 -1627.5  
3006 9.3 100923.1 -1618.6  
3007 9.9 100925.1 -1626.5  
3008 8.2 100926.0 -1603.1  
3009 9.8 100940.7 -1602.8  
3010 9.5 100949.9 -1641.0

3011 9.5 101004.3 -1624.0  
3012 9.8 101026.2 -1631.4  
3013 8.0 101038.6 -1648.9  
3014 10.1 101114.2 -1628.1  
3015 9.0 101140.3 -1649.0  
3016 9.6 101213.7 -1655.2  
3017 9.2 101220.8 -1641.7  
3018 8.6 101222.8 -1644.6  
3019 9.5 101242.7 -1653.3  
3020 10.1 101250.3 -1645.7

3021 9.5 101256.8 -1650.6  
3022 9.5 101302.8 -1659.8  
3023 9.8 101310.7 -1649.7  
3024 9.8 101314.7 -1641.6  
3025 9.1 101328.2 -1633.0  
3026 9.0 101443.6 -1622.5  
3027 10.1 101408.6 -1608.2  
3028 8.5 101411.4 -1651.7  
3029 9.5 101417.6 -1616.5  
3030 8.8 101419.6 -1619.2

3031 9.1 101422.1 -1632.3  
3032 9.9 101439.5 -1620.0  
3033 9.8 101506.1 -1621.5  
3034 10.1 101516.2 -1636.0  
3035 9.1 101523.2 -1646.1  
3036 9.1 101528.1 -1651.7  
3037 9.4 101555.6 -1606.0  
3038 9.0 101600.1 -1605.9  
3039 9.5 101636.2 -1626.7  
3040 9.0 101658.6 -1636.9

3041 9.3 101641.5 -1652.2  
3042 9.4 101650.9 -1602.8  
3043 9.1 101654.1 -1643.6  
3044 9.8 101709.9 -1619.9  
3045 8.5 101712.0 -1642.2  
3046 9.5 101757.1 -1644.2  
3047 9.6 101810.0 -1641.5  
3048 9.7 101817.2 -1637.1  
3049 9.8 101822.5 -1600.8  
3050 8.8 101835.0 -1600.9

3051 10.1 101835.5 -1655.4  
3052 4.0 101903.9 -1605.6  
3053 10.1 101909.0 -1632.3  
3054 9.8 101911.4 -1611.4  
3055 9.6 101921.0 -1643.7  
3056 8.8 101929.2 -1647.5  
3057 8.8 101954.0 -1642.3  
3058 9.1 102002.4 -1629.5  
3059 8.8 102004.3 -1610.1  
3060 8.0 102018.5 -1641.0

3061 9.0 102028.6 -1610.1  
3062 9.5 102041.4 -1651.0  
3063 9.0 102043.5 -1643.5  
3064 9.0 102109.7 -1620.7  
3065 9.0 102217.4 -1623.5  
3066 10.1 102222.9 -1621.2  
3067 9.3 102224.4 -1634.7  
3068 9.4 102243.9 -1646.9  
3069 9.5 102311.7 -1603.2  
3070 9.6 102311.8 -1644.2

3071 9.1 102317.3 -1645.8  
3072 8.7 102402.3 -1640.6  
3073 9.4 102407.9 -1615.1  
3074 9.4 102413.2 -1606.0  
3075 7.8 102431.2 -1620.0  
3076 9.6 102456.2 -1617.3  
3077 9.3 102519.8 -1612.7  
3078 7.4 102537.7 -1612.7  
3079 9.8 102541.3 -1646.0  
3080 9.3 102552.9 -1631.5

3081 9.9 102611.8 -1612.5  
3082 9.6 102624.1 -1655.0  
3083 10.1 102642.4 -1602.1  
3084 9.7 102713.1 -1656.3  
3085 9.2 102726.1 -1634.4  
3086 9.2 102739.0 -1609.9  
3087 9.8 102812.3 -1602.0  
3088 8.0 102816.2 -1626.8  
3089 9.3 102824.0 -1641.5  
3090 8.2 102841.4 -1637.5

3091 10.1 102844.0 -1648.4  
3092 9.3 102844.9 -1656.7  
3093 9.8 102900.7 -1617.0  
3094 9.8 102907.7 -1613.7  
3095 10.1 102937.5 -1645.5  
3096 9.5 103035.4 -1626.8  
3097 8.0 103052.6 -1659.0  
3098 9.8 103108.7 -1601.1  
3099 9.0 103130.4 -1636.7  
3100 5.2 103130.5 -1607.4

3101 8.8 103149.8 -1628.8  
3102 9.1 103201.5 -1649.6  
3103 8.4 103204.9 -1649.2  
3104 9.1 103253.4 -1644.3  
3105 9.4 103305.9 -1644.5  
3106 9.4 103323.3 -1648.6  
3107 9.4 103427.8 -1646.0  
3108 8.6 103507.8 -1633.7  
3109 9.0 103509.7 -1629.5  
3110 9.8 103517.2 -1654.8

3111 7.9 103534.8 -1658.0  
3112 8.5 103535.6 -1648.4  
3113 9.6 103605.1 -1603.0  
3114 9.3 103614.3 -1623.3  
3115 9.4 103625.4 -1626.0  
3116 9.8 103706.6 -1647.7  
3117 9.2 103714.7 -1644.1  
3118 9.3 103749.2 -1629.0  
3119 9.3 103807.8 -1607.3  
3120 9.9 103809.5 -1614.8

3121 8.8 103811.6 -1639.9  
3122 8.5 103845.6 -1620.3  
3123 10.1 103945.0 -1640.2  
3124 6.2 103945.8 -1631.3  
3125 9.2 103948.0 -1628.4  
3126 9.8 103954.7 -1610.5  
3127 8.5 104004.6 -1639.2  
3128 9.7 104025.0 -1644.5  
3129 9.2 104055.5 -1635.5  
3130 9.2 104121.8 -1630.0

3131 9.8 104122.0 -1604.8  
3132 10.1 104146.0 -1624.9  
3133 9.1 104234.7 -1602.7  
3134 9.2 104302.5 -1633.7  
3135 9.1 104332.0 -1619.4  
3136 8.6 104401.9 -1643.1  
3137 10.1 104428.9 -1646.6  
3138 9.3 104429.3 -1601.1  
3139 8.8 104432.9 -1655.6  
3140 7.8 104532.3 -1615.4

3141 10.1 104533.4 -1634.5  
3142 7.5 104550.3 -1630.6  
3143 8.3 104555.9 -1609.7  
3144 8.7 104631.7 -1602.6  
3145 9.3 104711.0 -1600.5  
3146 8.7 104750.0 -1641.7  
3147 9.8 104750.1 -1635.0  
3148 9.6 104755.8 -1623.1  
3149 8.0 104801.7 -1601.8  
3150 9.3 104850.2 -1628.7

3151 9.3 104905.4 -1657.7  
3152 8.2 104936.6 -1640.2  
3153 9.3 104945.0 -1614.2  
3154 9.6 104947.8 -1614.0  
3155 9.2 105009.1 -1610.5  
3156 9.7 105041.0 -1600.2  
3157 9.2 105047.7 -1611.9  
3158 9.2 105110.2 -1644.0  
3159 9.2 105119.1 -1648.4  
3160 9.7 105136.6 -1653.9

3161 9.7 105204.5 -1626.1  
3162 8.6 105207.2 -1620.0  
3163 7.8 105207.4 -1650.9  
3164 8.7 105245.7 -1632.1  
3165 9.4 105315.3 -1655.6  
3166 9.3 105332.9 -1618.2  
3167 9.3 105344.2 -1634.8  
3168 9.4 105357.1 -1623.8  
3169 10.1 105407.1 -1633.2  
3170 9.8 105413.1 -1628.5

3171 8.7 105417.5 -1607.7  
3172 7.8 105419.0 -1609.8  
3173 9.4 105424.1 -1618.7  
3174 8.0 105428.1 -1634.0  
3175 9.0 105518.6 -1642.8  
3176 9.8 105545.0 -1641.7  
3177 9.8 105605.6 -1610.4  
3178 9.3 105606.9 -1600.6  
3179 9.0 105608.6 -1639.3  
3180 9.8 105732.5 -1633.1

-16 3270 11h24m

3181 8.5 105735.8 -1605.6  
3182 9.8 105738.4 -1655.7  
3183 9.5 105741.7 -1655.7  
3184 10.1 105759.5 -1650.1  
3185 9.8 105810.4 -1622.6  
3186 9.8 105813.7 -1646.1  
3187 9.6 105813.7 -1610.0  
3188 9.4 105814.0 -1642.3  
3189 9.8 105854.8 -1603.9  
3190 9.6 105916.4 -1645.2

3191 9.5 105942.4 -1630.0  
3192 10.1 110027.8 -1615.8  
3193 9.5 110126.6 -1652.5  
3194 9.5 110132.3 -1645.0  
3195 9.4 110154.8 -1644.4  
3196 9.7 110251.8 -1639.2  
3197 10.1 110256.3 -1643.7  
3198 8.7 110256.8 -1647.0  
3199 8.9 110342.6 -1654.4  
3200 7.7 110356.2 -1620.7

3201 8.7 110504.7 -1640.5  
3202 9.8 110513.7 -1645.9  
3203 9.5 110521.2 -1610.6  
3204 9.3 110529.6 -1657.2  
3205 10.1 110554.4 -1643.4  
3206 8.0 110555.1 -1628.2  
3207 8.8 110605.5 -1636.9  
3208 9.0 110628.2 -1645.2  
3209 10.1 110644.6 -1633.6  
3210 7.5 110657.3 -1605.8

3211 8.8 110702.5 -1637.8  
3212 9.5 110715.6 -1617.5  
3213 9.8 110728.1 -1640.1  
3214 8.7 110728.6 -1623.3  
3215 8.6 110805.5 -1642.1  
3216 9.9 110852.8 -1640.9  
3217 9.8 110901.7 -1644.5  
3218 9.8 110937.4 -1635.0  
3219 9.8 110953.2 -1603.5  
3220 9.2 110954.6 -1634.0

3221 10.1 111000.1 -1636.8  
3222 9.0 111050.9 -1630.6  
3223 8.2 111054.9 -1646.7  
3224 9.5 111119.6 -1608.9  
3225 9.3 111119.7 -1651.4  
3226 9.3 111140.5 -1621.1  
3227 10.1 111145.4 -1618.4  
3228 9.8 111219.9 -1610.1  
3229 9.1 111220.9 -1642.5  
3230 9.5 111252.6 -1618.0

3231 9.6 111309.8 -1618.0  
3232 9.1 111312.1 -1610.9  
3233 10.1 111403.8 -1615.2  
3234 9.5 111423.8 -1613.0  
3235 10.1 111502.5 -1604.8  
3236 9.3 111508.2 -1637.1  
3237 9.0 111528.0 -1631.3  
3238 8.0 111615.7 -1644.2  
3239 10.1 111643.2 -1616.0  
3240 10.1 111647.1 -1616.5

3241 9.2 111650.4 -1604.6  
3242 9.8 111656.5 -1655.9  
3243 9.1 111725.7 -1616.3  
3244 4.2 111738.6 -1653.0  
3245 9.8 111745.7 -1624.2  
3246 9.5 111803.2 -1654.7  
3247 8.9 111822.5 -1637.3  
3248 9.7 111832.9 -1608.4  
3249 10.1 111859.6 -1631.4  
3250 9.6 111902.1 -1645.8

3251 9.5 111923.1 -1650.1  
3252 9.4 111924.0 -1658.6  
3253 10.1 111929.8 -1610.9  
3254 9.3 111956.6 -1641.5  
3255 9.6 112003.0 -1657.3  
3256 9.8 112051.2 -1613.0  
3257 9.2 112051.3 -1656.3  
3258 8.8 112157.0 -1633.0  
3259 8.8 112158.0 -1633.6  
3260 9.8 112158.5 -1638.5

3261 9.8 112219.5 -1643.2  
3262 7.7 112241.0 -1658.1  
3263 10.1 112246.7 -1642.1  
3264 10.1 112300.0 -1629.0  
3265 8.8 112306.3 -1658.3  
3266 9.2 112322.4 -1624.1  
3267 9.8 112322.5 -1618.8  
3268 9.5 112332.4 -1624.0  
3269 9.3 112406.0 -1659.0  
3270 9.0 112426.9 -1645.7



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 3271 | 9.8 | 112432.4 | -1649.8 | 3361 | 9.3 | 115005.7 | -1612.5 | 3451 | 9.8 | 121523.7 | -1638.6 | 3541 | 8.5 | 124149.4 | -1621.2 |
| 3272 | 9.4 | 112433.1 | -1636.6 | 3362 | 9.2 | 115009.4 | -1629.2 | 3452 | 9.6 | 121549.8 | -1629.9 | 3542 | 9.6 | 124232.8 | -1641.6 |
| 3273 | 10. | 112445.3 | -1616.2 | 3363 | 9.3 | 115032.8 | -1637.3 | 3453 | 10. | 121611.3 | -1615.5 | 3543 | 9.9 | 124237.9 | -1636.2 |
| 3274 | 9.4 | 112453.4 | -1651.1 | 3364 | 9.1 | 115034.3 | -1652.0 | 3454 | 9.6 | 121614.4 | -1651.7 | 3544 | 9.6 | 124308.5 | -1659.4 |
| 3275 | 9.1 | 112524.3 | -1640.6 | 3365 | 9.3 | 115056.5 | -1651.4 | 3455 | 9.7 | 121640.1 | -1607.0 | 3545 | 9.8 | 124317.7 | -1604.8 |
| 3276 | 9.5 | 112532.3 | -1611.7 | 3366 | 9.1 | 115107.1 | -1609.1 | 3456 | 9.3 | 121744.0 | -1656.0 | 3546 | 8.6 | 124326.4 | -1632.5 |
| 3277 | 10. | 112550.8 | -1646.5 | 3367 | 8.5 | 115121.3 | -1657.0 | 3457 | 10. | 121755.5 | -1650.2 | 3547 | 9.8 | 124332.6 | -1615.1 |
| 3278 | 10. | 112631.0 | -1620.5 | 3368 | 9.3 | 115121.6 | -1612.0 | 3458 | 9.5 | 121813.6 | -1658.6 | 3548 | 8.4 | 124343.5 | -1607.4 |
| 3279 | 9.4 | 112655.9 | -1605.5 | 3369 | 9.4 | 115149.1 | -1601.1 | 3459 | 8.5 | 121824.3 | -1626.2 | 3549 | 9.3 | 124348.9 | -1649.7 |
| 3280 | 8.9 | 112703.8 | -1618.4 | 3370 | 9.8 | 115223.2 | -1624.4 | 3460 | 9.4 | 121826.0 | -1618.7 | 3550 | 9.9 | 124353.5 | -1659.4 |
| 3281 | 9.3 | 112727.9 | -1620.1 | 3371 | 10. | 115238.2 | -1657.7 | 3461 | 9.3 | 121838.0 | -1641.0 | 3551 | 9.8 | 124403.2 | -1622.0 |
| 3282 | 9.2 | 112746.9 | -1638.7 | 3372 | 9.5 | 115256.3 | -1641.2 | 3462 | 9.7 | 121844.0 | -1655.8 | 3552 | 9.8 | 124415.0 | -1659.8 |
| 3283 | 9.8 | 112748.0 | -1613.4 | 3373 | 8.8 | 115401.1 | -1642.7 | 3463 | 9.5 | 121845.1 | -1653.1 | 3553 | 9.4 | 124422.3 | -1628.7 |
| 3284 | 9.7 | 112751.9 | -1616.5 | 3374 | 9.6 | 115432.2 | -1629.3 | 3464 | 9.8 | 121910.4 | -1610.7 | 3554 | 9.1 | 124447.8 | -1649.7 |
| 3285 | 9.5 | 112755.1 | -1629.8 | 3375 | 9.4 | 115447.1 | -1636.8 | 3465 | 9.3 | 121925.1 | -1619.4 | 3555 | 9.4 | 124451.3 | -1646.4 |
| 3286 | 9.9 | 112823.9 | -1642.7 | 3376 | 9.6 | 115452.3 | -1611.9 | 3466 | 9.3 | 122018.9 | -1640.3 | 3556 | 9.5 | 124526.6 | -1636.8 |
| 3287 | 9.8 | 112832.0 | -1613.6 | 3377 | 9.8 | 115452.8 | -1613.9 | 3467 | 9.0 | 122035.2 | -1636.3 | 3557 | 8.5 | 124534.8 | -1624.5 |
| 3288 | 9.4 | 112835.2 | -1650.1 | 3378 | 9.3 | 115519.5 | -1615.3 | 3468 | 9.6 | 122036.2 | -1611.9 | 3558 | 8.8 | 124558.3 | -1602.6 |
| 3289 | 10. | 112905.6 | -1622.0 | 3379 | 8.8 | 115529.6 | -1652.3 | 3469 | 9.3 | 122051.6 | -1606.4 | 3559 | 9.4 | 124604.3 | -1606.2 |
| 3290 | 7.0 | 112911.1 | -1602.7 | 3380 | 8.5 | 115554.1 | -1628.5 | 3470 | 9.4 | 122051.6 | -1619.3 | 3560 | 9.0 | 124607.3 | -1624.1 |
| 3291 | 9.3 | 112947.1 | -1656.3 | 3381 | 9.8 | 115559.9 | -1605.9 | 3471 | 8.4 | 122058.2 | -1629.5 | 3561 | 9.9 | 124607.9 | -1657.1 |
| 3292 | 10. | 113002.4 | -1604.6 | 3382 | 9.1 | 115608.3 | -1624.8 | 3472 | 9.4 | 122119.7 | -1647.4 | 3562 | 9.8 | 124636.8 | -1603.9 |
| 3293 | 8.3 | 113015.9 | -1607.5 | 3383 | 9.2 | 115608.6 | -1640.1 | 3473 | 8.8 | 122122.7 | -1626.2 | 3563 | 9.4 | 124748.0 | -1643.5 |
| 3294 | 9.5 | 113017.8 | -1604.5 | 3384 | 9.7 | 115610.5 | -1650.5 | 3474 | 10. | 122146.5 | -1655.1 | 3564 | 9.6 | 124756.5 | -1620.4 |
| 3295 | 8.9 | 113047.4 | -1612.7 | 3385 | 9.4 | 115635.6 | -1646.0 | 3475 | 8.7 | 122213.6 | -1621.2 | 3565 | 8.0 | 124828.7 | -1606.3 |
| 3296 | 9.7 | 113048.3 | -1602.9 | 3386 | 9.8 | 115658.9 | -1606.2 | 3476 | 9.3 | 122309.2 | -1654.5 | 3566 | 9.3 | 124833.5 | -1653.7 |
| 3297 | 9.1 | 113125.9 | -1639.5 | 3387 | 9.8 | 115712.7 | -1626.8 | 3477 | 8.8 | 122310.4 | -1609.4 | 3567 | 9.9 | 124842.2 | -1622.7 |
| 3298 | 9.1 | 113146.1 | -1630.6 | 3388 | 9.7 | 115742.5 | -1659.2 | 3478 | 10. | 122329.8 | -1656.3 | 3568 | 8.4 | 124854.3 | -1622.3 |
| 3299 | 8.7 | 113216.0 | -1646.4 | 3389 | 9.1 | 115843.3 | -1643.4 | 3479 | 10. | 122333.2 | -1611.4 | 3569 | 9.5 | 124904.6 | -1615.0 |
| 3300 | 9.1 | 113220.7 | -1603.7 | 3390 | 9.8 | 115910.7 | -1613.4 | 3480 | 8.7 | 122339.4 | -1654.9 | 3570 | 9.6 | 124910.6 | -1615.9 |
| 3301 | 10. | 113225.5 | -1641.3 | 3391 | 9.2 | 115935.6 | -1626.9 | 3481 | 9.5 | 122416.9 | -1621.1 | 3571 | 9.6 | 124918.8 | -1640.1 |
| 3302 | 9.8 | 113253.6 | -1650.0 | 3392 | 9.6 | 115955.3 | -1623.8 | 3482 | 9.5 | 122420.0 | -1631.5 | 3572 | 8.2 | 124957.4 | -1636.3 |
| 3303 | 9.8 | 113300.3 | -1659.0 | 3393 | 9.0 | 120030.3 | -1607.3 | 3483 | 9.6 | 122424.1 | -1638.7 | 3573 | 9.4 | 125020.9 | -1654.0 |
| 3304 | 7.0 | 113350.2 | -1654.0 | 3394 | 8.8 | 120033.4 | -1641.5 | 3484 | 10. | 122425.1 | -1614.5 | 3574 | 8.7 | 125047.9 | -1632.9 |
| 3305 | 9.8 | 113350.9 | -1636.8 | 3395 | 9.2 | 120106.4 | -1624.6 | 3485 | 9.8 | 122425.5 | -1630.4 | 3575 | 9.6 | 125112.1 | -1656.7 |
| 3306 | 10. | 113401.7 | -1634.9 | 3396 | 8.5 | 120121.1 | -1620.6 | 3486 | 9.6 | 122450.5 | -1615.9 | 3576 | 8.7 | 125120.2 | -1656.0 |
| 3307 | 9.8 | 113407.8 | -1656.5 | 3397 | 9.4 | 120122.2 | -1608.6 | 3487 | 9.8 | 122457.3 | -1637.7 | 3577 | 9.4 | 125126.6 | -1633.8 |
| 3308 | 7.5 | 113443.3 | -1612.7 | 3398 | 9.6 | 120145.3 | -1628.3 | 3488 | 7.8 | 122509.6 | -1625.0 | 3578 | 9.7 | 125214.5 | -1620.9 |
| 3309 | 9.3 | 113445.4 | -1628.7 | 3399 | 9.1 | 120208.8 | -1645.9 | 3489 | 9.7 | 122511.4 | -1605.5 | 3579 | 9.8 | 125247.9 | -1615.3 |
| 3310 | 8.6 | 113545.9 | -1623.1 | 3400 | 9.4 | 120210.5 | -1645.9 | 3490 | 9.2 | 122523.5 | -1626.4 | 3580 | 9.4 | 125256.7 | -1642.5 |
| 3311 | 9.7 | 113551.2 | -1655.1 | 3401 | 8.5 | 120225.6 | -1616.3 | 3491 | 10. | 122548.2 | -1657.0 | 3581 | 9.8 | 125336.3 | -1656.4 |
| 3312 | 9.5 | 113559.4 | -1634.5 | 3402 | 9.2 | 120236.4 | -1648.0 | 3492 | 8.3 | 122603.9 | -1659.4 | 3582 | 9.0 | 125341.2 | -1637.9 |
| 3313 | 9.0 | 113624.9 | -1643.7 | 3403 | 7.0 | 120238.9 | -1643.6 | 3493 | 8.8 | 122613.6 | -1655.4 | 3583 | 9.4 | 125342.6 | -1646.5 |
| 3314 | 9.6 | 113625.8 | -1637.5 | 3404 | 10. | 120243.5 | -1654.7 | 3494 | 9.8 | 122618.3 | -1648.2 | 3584 | 9.5 | 125348.5 | -1604.5 |
| 3315 | 8.4 | 113648.9 | -1619.6 | 3405 | 8.2 | 120302.1 | -1623.9 | 3495 | 9.3 | 122619.4 | -1611.1 | 3585 | 10. | 125401.3 | -1659.1 |
| 3316 | 9.4 | 113649.9 | -1642.3 | 3406 | 9.6 | 120307.8 | -1632.3 | 3496 | 8.0 | 122622.1 | -1616.6 | 3586 | 9.8 | 125432.6 | -1642.0 |
| 3317 | 9.8 | 113743.1 | -1600.1 | 3407 | 8.5 | 120313.7 | -1608.9 | 3497 | 10. | 122759.9 | -1622.1 | 3587 | 9.4 | 125440.4 | -1629.5 |
| 3318 | 10. | 113751.4 | -1654.2 | 3408 | 10. | 120333.8 | -1659.7 | 3498 | 7.3 | 122805.9 | -1620.9 | 3588 | 7.5 | 125517.5 | -1605.8 |
| 3319 | 9.9 | 113757.8 | -1613.0 | 3409 | 9.2 | 120336.3 | -1648.2 | 3499 | 7.0 | 122809.4 | -1601.6 | 3589 | 8.9 | 125551.8 | -1628.8 |
| 3320 | 9.4 | 113759.9 | -1633.2 | 3410 | 9.3 | 120427.9 | -1622.5 | 3500 | 9.0 | 122839.4 | -1628.6 | 3590 | 9.0 | 125604.3 | -1659.4 |
| 3321 | 10. | 113848.3 | -1629.9 | 3411 | 10. | 120433.7 | -1655.9 | 3501 | 9.4 | 122847.8 | -1636.2 | 3591 | 8.4 | 125621.0 | -1650.4 |
| 3322 | 10. | 113858.6 | -1609.7 | 3412 | 9.1 | 120439.2 | -1637.5 | 3502 | 9.7 | 122949.4 | -1659.8 | 3592 | 7.8 | 125639.9 | -1626.9 |
| 3323 | 10. | 113901.3 | -1629.1 | 3413 | 8.5 | 120455.3 | -1623.9 | 3503 | 9.6 | 123002.3 | -1627.7 | 3593 | 9.8 | 125644.2 | -1615.2 |
| 3324 | 9.0 | 113930.8 | -1644.5 | 3414 | 9.5 | 120504.8 | -1617.0 | 3504 | 9.2 | 123020.2 | -1609.9 | 3594 | 10. | 125707.4 | -1614.1 |
| 3325 | 9.5 | 114007.2 | -1659.7 | 3415 | 8.3 | 120529.5 | -1619.7 | 3505 | 9.6 | 123029.0 | -1611.9 | 3595 | 9.5 | 125715.3 | -1628.3 |
| 3326 | 9.8 | 114023.3 | -1632.5 | 3416 | 9.4 | 120536.7 | -1638.6 | 3506 | 9.7 | 123055.7 | -1654.3 | 3596 | 8.2 | 125721.7 | -1653.8 |
| 3327 | 9.0 | 114035.7 | -1643.3 | 3417 | 9.8 | 120608.4 | -1617.3 | 3507 | 10. | 123059.3 | -1613.7 | 3597 | 8.2 | 125746.6 | -1613.3 |
| 3328 | 9.8 | 114115.9 | -1613.4 | 3418 | 8.5 | 120635.8 | -1657.2 | 3508 | 9.8 | 123101.2 | -1650.6 | 3598 | 9.7 | 125747.2 | -1656.5 |
| 3329 | 9.7 | 114128.1 | -1659.4 | 3419 | 9.3 | 120642.7 | -1625.8 | 3509 | 9.4 | 123119.3 | -1650.5 | 3599 | 9.3 | 125845.3 | -1649.9 |
| 3330 | 9.0 | 114134.3 | -1620.4 | 3420 | 9.8 | 120649.7 | -1614.3 | 3510 | 9.8 | 123147.3 | -1611.3 | 3600 | 9.1 | 125854.9 | -1641.0 |
| 3331 | 9.1 | 114142.4 | -1603.6 | 3421 | 9.7 | 120656.7 | -1644.8 | 3511 | 10. | 123157.9 | -1608.0 | 3601 | 9.4 | 125911.3 | -1648.1 |
| 3332 | 9.1 | 114148.9 | -1634.5 | 3422 | 9.4 | 120728.6 | -1642.7 | 3512 | 8.3 | 123158.3 | -1619.2 | 3602 | 8.8 | 125942.2 | -1618.1 |
| 3333 | 8.2 | 114216.9 | -1648.1 | 3423 | 9.2 | 120816.5 | -1636.9 | 3513 | 8.6 | 123225.6 | -1652.7 | 3603 | 10. | 126021.8 | -1607.9 |
| 3334 | 9.1 | 114216.9 | -1621.5 | 3424 | 2.0 | 120820.7 | -1643.5 | 3514 | 8.9 | 123235.0 | -1654.8 | 3604 | 9.2 | 130247.4 | -1640.1 |
| 3335 | 8.8 | 114230.7 | -1615.2 | 3425 | 10. | 120834.4 | -1653.8 | 3515 | 9.5 | 123243.7 | -1649.4 | 3605 | 8.2 | 130122.6 | -1654.0 |
| 3336 | 10. | 114257.2 | -1648.3 | 3426 | 9.7 | 120858.0 | -1604.0 | 3516 | 10. | 123249.5 | -1636.6 | 3606 | 9.4 | 130143.9 | -1658.1 |
| 3337 | 8.2 | 114308.0 | -1656.1 | 3427 | 9.3 | 120903.7 | -1616.4 | 3517 | 9.0 | 123257.5 | -1616.0 | 3607 | 8.0 | 130145.4 | -1627.4 |
| 3338 | 9.1 | 114330.1 | -1624.4 | 3428 | 9.8 | 120906.5 | -1636.8 | 3518 | 9.9 | 123307.4 | -1656.6 | 3608 | 9.5 | 130149.9 | -1601.7 |
| 3339 | 9.5 | 114408.1 | -1653.7 | 3429 | 9.4 | 120912.0 | -1631.7 | 3519 | 10. | 123310.8 | -1643.7 | 3609 | 9.8 | 130233.8 | -1622.0 |
| 3340 | 9.6 | 114411.6 | -1653.0 | 3430 | 9.1 | 121001.2 | -1621.6 | 3520 | 9.7 | 123357.1 | -1630.9 | 3610 | 9.4 | 130208.3 | -1628.5 |
| 3341 | 8.2 | 114415.5 | -1645.7 | 3431 | 10. | 121001.5 | -1616.8 | 3521 | 10. | 123402.1 | -1616.9 | 3611 | 9.8 | 130319.6 | -1614.8 |
| 3342 | 10. | 114422.1 | -1623.3 | 3432 | 9.0 | 121015.5 | -1632.7 | 3522 | 9.0 | 123510.7 | -1647.2 | 3612 | 7.2 | 130322.8 | -1618.9 |
| 3343 | 9.4 | 114428.3 | -1625.9 | 3433 | 9.0 | 121021.7 | -1618.5 | 3523 | 9.1 | 123518.9 | -1656.6 |      |     |          |         |



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 3631 | 9.2  | 131003.1 | -1625.8 | 3721 | 9.4  | 133340.8 | -1600.0 | 3811 | 9.2  | 140100.4 | -1619.3 | 3901 | 9.3  | 142824.3 | -1633.0 |
| 3632 | 9.4  | 131015.2 | -1654.8 | 3722 | 9.8  | 133349.9 | -1637.4 | 3812 | 9.8  | 140122.9 | -1620.6 | 3902 | 9.4  | 142836.9 | -1608.4 |
| 3633 | 9.2  | 131017.6 | -1604.5 | 3723 | 8.2  | 133351.0 | -1635.0 | 3813 | 9.5  | 140125.0 | -1644.0 | 3903 | 9.8  | 142848.7 | -1656.3 |
| 3634 | 9.7  | 131035.8 | -1619.8 | 3724 | 9.0  | 133357.4 | -1604.0 | 3814 | 10.0 | 140126.2 | -1632.1 | 3904 | 10.0 | 142952.6 | -1615.6 |
| 3635 | 7.2  | 131100.8 | -1622.0 | 3725 | 8.3  | 133357.5 | -1649.0 | 3815 | 10.0 | 140145.7 | -1628.2 | 3905 | 10.0 | 142956.9 | -1650.7 |
| 3636 | 9.8  | 131103.0 | -1613.8 | 3726 | 9.8  | 133425.2 | -1617.0 | 3816 | 10.0 | 140216.6 | -1611.2 | 3906 | 9.3  | 143025.3 | -1615.0 |
| 3637 | 9.7  | 131137.1 | -1634.9 | 3727 | 9.7  | 133432.8 | -1611.8 | 3817 | 9.8  | 140217.7 | -1617.4 | 3907 | 9.8  | 143031.4 | -1655.4 |
| 3638 | 9.2  | 131204.3 | -1611.0 | 3728 | 9.1  | 133444.1 | -1624.4 | 3818 | 9.4  | 140220.6 | -1615.4 | 3908 | 9.3  | 143032.1 | -1639.5 |
| 3639 | 10.0 | 131214.1 | -1601.6 | 3729 | 8.6  | 133445.3 | -1632.2 | 3819 | 9.5  | 140235.9 | -1623.0 | 3909 | 9.6  | 143046.8 | -1630.6 |
| 3640 | 10.0 | 131304.4 | -1620.4 | 3730 | 9.8  | 133454.7 | -1658.2 | 3820 | 9.1  | 140241.8 | -1619.7 | 3910 | 9.5  | 143048.6 | -1643.1 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3641 | 10.0 | 131316.9 | -1622.3 | 3731 | 9.5  | 133500.3 | -1621.4 | 3821 | 8.9  | 140257.6 | -1657.4 | 3911 | 9.5  | 143124.5 | -1657.0 |
| 3642 | 9.8  | 131328.2 | -1628.8 | 3732 | 9.0  | 133541.0 | -1618.6 | 3822 | 8.2  | 140318.0 | -1620.2 | 3912 | 9.3  | 143134.6 | -1613.6 |
| 3643 | 9.2  | 131329.8 | -1624.0 | 3733 | 10.0 | 133614.3 | -1626.0 | 3823 | 9.2  | 140320.2 | -1607.4 | 3913 | 9.5  | 143135.4 | -1617.9 |
| 3644 | 9.6  | 131415.5 | -1602.5 | 3734 | 10.0 | 133625.9 | -1624.9 | 3824 | 9.6  | 140409.5 | -1636.9 | 3914 | 8.6  | 143156.3 | -1648.9 |
| 3645 | 9.5  | 131422.4 | -1636.7 | 3735 | 9.1  | 133633.8 | -1628.7 | 3825 | 10.0 | 140434.7 | -1638.5 | 3915 | 10.0 | 143312.0 | -1615.9 |
| 3646 | 9.0  | 131446.2 | -1623.3 | 3736 | 9.0  | 133641.0 | -1607.4 | 3826 | 9.7  | 140436.5 | -1610.0 | 3916 | 10.0 | 143330.0 | -1614.6 |
| 3647 | 10.0 | 131451.9 | -1609.2 | 3737 | 8.6  | 133652.9 | -1659.0 | 3827 | 9.2  | 140458.4 | -1605.3 | 3917 | 8.9  | 143345.7 | -1639.1 |
| 3648 | 9.5  | 131504.8 | -1622.0 | 3738 | 8.9  | 133731.3 | -1630.2 | 3828 | 9.7  | 140530.8 | -1616.3 | 3918 | 9.4  | 143419.2 | -1612.0 |
| 3649 | 10.0 | 131511.7 | -1654.6 | 3739 | 9.5  | 133742.8 | -1650.6 | 3829 | 8.1  | 140614.6 | -1647.0 | 3919 | 9.1  | 143419.6 | -1641.8 |
| 3650 | 5.3  | 131515.0 | -1657.8 | 3740 | 10.0 | 133757.7 | -1609.7 | 3830 | 9.8  | 140637.8 | -1641.2 | 3920 | 9.6  | 143436.6 | -1655.2 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3651 | 8.8  | 131553.7 | -1614.9 | 3741 | 9.7  | 133833.2 | -1618.8 | 3831 | 9.8  | 140711.0 | -1628.3 | 3921 | 9.4  | 143438.6 | -1630.4 |
| 3652 | 9.0  | 131620.2 | -1622.6 | 3742 | 9.5  | 133842.7 | -1653.7 | 3832 | 9.4  | 140736.7 | -1622.2 | 3922 | 9.3  | 143446.1 | -1641.1 |
| 3653 | 10.0 | 131706.4 | -1628.5 | 3743 | 9.8  | 133907.3 | -1631.2 | 3833 | 9.5  | 140809.7 | -1622.0 | 3923 | 9.0  | 143459.0 | -1602.1 |
| 3654 | 10.0 | 131721.2 | -1655.0 | 3744 | 8.3  | 133924.8 | -1620.6 | 3834 | 9.8  | 140904.1 | -1615.2 | 3924 | 9.2  | 143500.6 | -1641.6 |
| 3655 | 9.1  | 131740.0 | -1651.6 | 3745 | 10.0 | 133937.2 | -1654.0 | 3835 | 10.0 | 140920.6 | -1604.9 | 3925 | 9.2  | 143536.9 | -1654.3 |
| 3656 | 9.2  | 131750.0 | -1620.4 | 3746 | 9.4  | 133952.7 | -1651.3 | 3836 | 9.8  | 140921.2 | -1623.0 | 3926 | 9.5  | 143611.3 | -1618.9 |
| 3657 | 9.5  | 131750.1 | -1649.4 | 3747 | 8.6  | 134100.6 | -1615.5 | 3837 | 9.8  | 140929.4 | -1609.7 | 3927 | 9.5  | 143613.5 | -1634.0 |
| 3658 | 7.0  | 131819.8 | -1606.3 | 3748 | 8.9  | 134103.8 | -1644.4 | 3838 | 9.6  | 141002.7 | -1605.0 | 3928 | 9.8  | 143625.0 | -1641.8 |
| 3659 | 10.0 | 131836.5 | -1652.9 | 3749 | 10.0 | 134146.9 | -1621.0 | 3839 | 9.5  | 141115.5 | -1650.4 | 3929 | 8.0  | 143626.1 | -1615.2 |
| 3660 | 9.5  | 131846.4 | -1611.8 | 3750 | 9.2  | 134152.8 | -1602.2 | 3840 | 8.8  | 141150.4 | -1609.4 | 3930 | 9.4  | 143626.7 | -1608.1 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3661 | 9.7  | 131851.0 | -1653.1 | 3751 | 9.0  | 134212.7 | -1618.4 | 3841 | 9.5  | 141159.6 | -1651.6 | 3931 | 10.0 | 143640.8 | -1638.9 |
| 3662 | 9.9  | 131851.9 | -1637.2 | 3752 | 9.6  | 134219.3 | -1650.5 | 3842 | 9.8  | 141218.1 | -1603.3 | 3932 | 9.5  | 143645.9 | -1639.3 |
| 3663 | 9.8  | 131852.2 | -1636.4 | 3753 | 9.7  | 134225.3 | -1646.2 | 3843 | 7.7  | 141229.4 | -1651.3 | 3933 | 10.0 | 143648.9 | -1659.8 |
| 3664 | 9.6  | 131857.0 | -1629.8 | 3754 | 10.0 | 134255.8 | -1611.6 | 3844 | 8.2  | 141254.1 | -1648.3 | 3934 | 8.0  | 143733.4 | -1607.5 |
| 3665 | 9.5  | 131916.6 | -1659.2 | 3755 | 9.7  | 134258.9 | -1649.6 | 3845 | 8.9  | 141304.2 | -1612.8 | 3935 | 10.0 | 143755.6 | -1651.3 |
| 3666 | 8.6  | 131930.7 | -1622.3 | 3756 | 9.4  | 134433.1 | -1612.6 | 3846 | 9.9  | 141321.7 | -1633.8 | 3936 | 8.5  | 143757.0 | -1615.2 |
| 3667 | 9.2  | 132010.5 | -1624.3 | 3757 | 9.6  | 134433.4 | -1639.2 | 3847 | 8.9  | 141327.8 | -1619.4 | 3937 | 9.8  | 143812.1 | -1610.5 |
| 3668 | 8.8  | 132050.2 | -1615.4 | 3758 | 9.1  | 134506.1 | -1657.3 | 3848 | 9.1  | 141342.0 | -1620.8 | 3938 | 8.8  | 143838.2 | -1655.0 |
| 3669 | 9.7  | 132051.5 | -1647.3 | 3759 | 9.6  | 134516.7 | -1656.1 | 3849 | 9.2  | 141405.9 | -1628.8 | 3939 | 7.0  | 144026.6 | -1643.4 |
| 3670 | 9.8  | 132100.0 | -1646.7 | 3760 | 7.0  | 134629.1 | -1627.8 | 3850 | 9.5  | 141416.6 | -1656.1 | 3940 | 9.1  | 144031.3 | -1625.3 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3671 | 9.7  | 132103.5 | -1624.1 | 3761 | 9.5  | 134639.2 | -1645.2 | 3851 | 9.8  | 141434.2 | -1656.6 | 3941 | 9.8  | 144047.6 | -1656.9 |
| 3672 | 10.0 | 132107.3 | -1604.8 | 3762 | 10.0 | 134639.5 | -1640.6 | 3852 | 9.9  | 141452.4 | -1610.5 | 3942 | 9.7  | 144054.5 | -1624.1 |
| 3673 | 9.8  | 132211.7 | -1655.6 | 3763 | 9.0  | 134759.4 | -1605.0 | 3853 | 9.3  | 141456.2 | -1636.0 | 3943 | 9.1  | 144100.0 | -1619.2 |
| 3674 | 9.7  | 132222.5 | -1616.1 | 3764 | 9.3  | 134800.9 | -1631.0 | 3854 | 9.4  | 141458.3 | -1638.2 | 3944 | 9.8  | 144100.2 | -1605.8 |
| 3675 | 10.0 | 132233.4 | -1638.2 | 3765 | 9.7  | 134855.3 | -1633.3 | 3855 | 10.0 | 141459.9 | -1629.5 | 3945 | 9.5  | 144129.8 | -1657.3 |
| 3676 | 10.0 | 132305.5 | -1631.9 | 3766 | 9.7  | 134915.6 | -1635.4 | 3856 | 8.7  | 141501.1 | -1649.7 | 3946 | 9.7  | 144230.7 | -1637.2 |
| 3677 | 10.0 | 132308.9 | -1621.7 | 3767 | 8.5  | 134920.4 | -1620.5 | 3857 | 9.8  | 141524.8 | -1636.5 | 3947 | 9.0  | 144248.3 | -1616.0 |
| 3678 | 10.0 | 132330.5 | -1619.4 | 3768 | 9.4  | 134925.8 | -1617.6 | 3858 | 9.5  | 141553.5 | -1605.8 | 3948 | 9.3  | 144258.0 | -1625.0 |
| 3679 | 9.7  | 132347.8 | -1622.3 | 3769 | 9.6  | 134945.2 | -1618.0 | 3859 | 9.8  | 141554.7 | -1657.3 | 3949 | 8.6  | 144314.0 | -1623.2 |
| 3680 | 10.0 | 132357.3 | -1649.1 | 3770 | 9.5  | 134948.5 | -1634.9 | 3860 | 10.0 | 141617.4 | -1625.5 | 3950 | 9.0  | 144324.0 | -1623.0 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3681 | 9.3  | 132401.5 | -1641.1 | 3771 | 9.0  | 134952.4 | -1637.3 | 3861 | 10.0 | 141630.6 | -1634.7 | 3951 | 9.4  | 144342.8 | -1641.3 |
| 3682 | 9.0  | 132414.8 | -1648.1 | 3772 | 9.1  | 135018.4 | -1624.1 | 3862 | 10.0 | 141652.3 | -1615.9 | 3952 | 9.0  | 144343.3 | -1642.8 |
| 3683 | 9.6  | 132429.2 | -1632.1 | 3773 | 8.7  | 135036.0 | -1654.8 | 3863 | 9.5  | 141658.3 | -1626.1 | 3953 | 8.3  | 144356.8 | -1654.3 |
| 3684 | 8.6  | 132438.8 | -1613.1 | 3774 | 9.1  | 135102.3 | -1655.2 | 3864 | 9.8  | 141720.0 | -1616.4 | 3954 | 9.4  | 144423.3 | -1636.0 |
| 3685 | 9.3  | 132510.0 | -1656.1 | 3775 | 9.8  | 135127.3 | -1620.3 | 3865 | 10.0 | 141729.8 | -1617.3 | 3955 | 9.0  | 144446.1 | -1612.6 |
| 3686 | 9.7  | 132520.9 | -1619.5 | 3776 | 10.0 | 135218.6 | -1628.1 | 3866 | 9.4  | 141834.0 | -1628.4 | 3956 | 9.7  | 144456.3 | -1659.1 |
| 3687 | 9.6  | 132524.0 | -1658.0 | 3777 | 9.4  | 135229.6 | -1651.1 | 3867 | 8.3  | 141858.0 | -1659.7 | 3957 | 9.4  | 144458.8 | -1622.0 |
| 3688 | 9.5  | 132525.2 | -1606.5 | 3778 | 8.3  | 135240.9 | -1622.9 | 3868 | 9.8  | 141909.8 | -1651.7 | 3958 | 8.9  | 144532.2 | -1619.8 |
| 3689 | 10.0 | 132525.9 | -1610.2 | 3779 | 9.4  | 135249.6 | -1628.6 | 3869 | 9.3  | 141917.3 | -1600.1 | 3959 | 9.4  | 144539.7 | -1650.6 |
| 3690 | 9.7  | 132533.7 | -1641.1 | 3780 | 8.5  | 135300.7 | -1635.5 | 3870 | 9.9  | 141949.5 | -1643.2 | 3960 | 9.5  | 144549.3 | -1617.9 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 3691 | 10.0 | 132544.5 | -1635.5 | 3781 | 9.5  | 135341.4 | -1616.4 | 3871 | 9.6  | 141947.4 | -1654.9 | 3961 | 9.1  | 144555.5 | -1649.4 |
| 3692 | 9.7  | 132549.9 | -1638.8 | 3782 | 10.0 | 135356.3 | -1638.1 | 3872 | 8.5  | 142012.9 | -1638.3 | 3962 | 9.4  | 144617.4 | -1616.8 |
| 3693 | 9.7  | 132552.7 | -1637.1 | 3783 | 9.8  | 135415.4 | -1632.9 | 3873 | 8.2  | 142042.5 | -1618.7 | 3963 | 10.0 | 144620.0 | -1634.8 |
| 3694 | 9.3  | 132618.8 | -1620.7 | 3784 | 9.0  | 135445.5 | -1639.2 | 3874 | 8.9  | 142044.6 | -1655.6 | 3964 | 9.1  | 144711.3 | -1651.0 |
| 3695 | 10.0 | 132619.3 | -1638.2 | 3785 | 7.0  | 135510.4 | -1639.7 | 3875 | 8.2  | 142045.7 | -1624.9 | 3965 | 9.2  | 144727.9 | -1612.1 |
| 3696 | 8.6  | 132623.6 | -1619.7 | 3786 | 8.9  | 135513.9 | -1652.2 | 3876 | 9.0  | 142048.1 | -1652.0 | 3966 | 9.1  | 144741.4 | -1654.8 |
| 3697 | 8.6  | 132627.5 | -1636.0 | 3787 | 9    |          |         |      |      |          |         |      |      |          |         |



3991 9.2 145505.7 -1651.1  
 3992 7.8 145527.9 -1601.4  
 3993 9.3 145605.1 -1606.0  
 3994 9.7 145608.0 -1659.3  
 3995 9.7 145627.5 -1659.5  
 3996 9.1 145629.5 -1610.8  
 3997 9.5 145629.9 -1620.9  
 3998 9.8 145650.8 -1607.8  
 3999 9.5 145714.9 -1625.0  
 4000 9.3 145718.7 -1610.1

4001 9.8 145734.3 -1606.3  
 4002 9.0 145759.9 -1621.4  
 4003 9.3 145802.7 -1609.0  
 4004 9.0 145820.4 -1630.1  
 4005 9.4 145838.6 -1644.1  
 4006 9.4 145850.3 -1645.8  
 4007 9.1 145920.3 -1648.0  
 4008 9.4 145930.8 -1615.6  
 4009 9.1 145937.7 -1649.8  
 4010 9.8 145938.6 -1641.5

4011 9.3 145954.8 -1612.4  
 4012 8.3 150007.4 -1631.7  
 4013 9.5 150009.4 -1625.0  
 4014 9.8 150048.9 -1623.9  
 4015 9.9 150050.1 -1600.5  
 4016 10. 150101.7 -1609.0  
 4017 8.8 150128.6 -1650.5  
 4018 9.3 150205.8 -1632.6  
 4019 9.5 150243.7 -1646.1  
 4020 7.8 150303.6 -1624.6

4021 10. 150320.4 -1607.2  
 4022 9.3 150328.5 -1615.4  
 4023 10. 150332.6 -1610.4  
 4024 9.6 150340.0 -1607.3  
 4025 7.7 150344.9 -1603.5  
 4026 9.5 150347.3 -1622.2  
 4027 9.4 150406.4 -1605.8  
 4028 9.3 150427.3 -1621.3  
 4029 9.2 150440.7 -1635.4  
 4030 9.8 150455.5 -1610.0

4031 10. 150505.7 -1602.4  
 4032 9.5 150507.6 -1648.2  
 4033 10. 150516.0 -1633.3  
 4034 8.7 150554.7 -1647.5  
 4035 8.5 150600.7 -1658.2  
 4036 9.1 150604.9 -1620.6  
 4037 9.2 150647.2 -1612.4  
 4038 9.6 150717.6 -1632.5  
 4039 9.0 150726.2 -1623.8  
 4040 9.3 150729.6 -1645.2

4041 10. 150747.6 -1601.5  
 4042 9.5 150800.6 -1639.0  
 4043 9.5 150824.0 -1649.3  
 4044 9.5 150837.1 -1636.6  
 4045 9.5 150918.0 -1642.2  
 4046 9.5 150919.9 -1659.9  
 4047 9.5 150922.1 -1619.5  
 4048 9.5 150922.9 -1639.3  
 4049 8.8 150930.6 -1639.7  
 4050 10. 150942.8 -1640.4

4051 9.7 150957.1 -1626.6  
 4052 10. 150958.6 -1621.7  
 4053 9.7 151012.5 -1651.4  
 4054 9.9 151021.1 -1637.8  
 4055 9.4 151026.8 -1603.9  
 4056 9.5 151122.2 -1624.1  
 4057 9.6 151132.9 -1643.3  
 4058 9.8 151143.0 -1643.6  
 4059 9.2 151146.7 -1608.2  
 4060 9.5 151202.2 -1606.0

4061 9.1 151227.9 -1651.1  
 4062 10. 151243.4 -1659.2  
 4063 9.8 151259.0 -1622.3  
 4064 10. 151300.7 -1635.9  
 4065 10. 151321.5 -1615.9  
 4066 10. 151330.1 -1618.8  
 4067 9.0 151432.0 -1622.5  
 4068 9.4 151512.4 -1642.3  
 4069 9.4 151521.2 -1601.5  
 4070 7.5 151522.6 -1602.6

4071 9.5 151527.3 -1612.3  
 4072 9.0 151544.9 -1609.5  
 4073 9.5 151607.6 -1658.6  
 4074 9.0 151607.9 -1647.7  
 4075 9.8 151616.6 -1625.7  
 4076 8.0 151618.9 -1628.5  
 4077 10. 151622.4 -1627.3  
 4078 9.4 151709.8 -1634.5  
 4079 8.7 151715.9 -1634.7  
 4080 9.5 151743.6 -1614.9

4081 9.5 151745.8 -1652.0  
 4082 9.3 151802.4 -1639.0  
 4083 9.5 151818.6 -1623.7  
 4084 9.4 151819.2 -1633.3  
 4085 9.4 151823.4 -1631.0  
 4086 9.1 151824.9 -1634.6  
 4087 9.0 151934.3 -1638.9  
 4088 9.4 152000.3 -1634.4  
 4089 6.0 152005.2 -1612.4  
 4090 9.2 152007.7 -1625.2

4091 9.5 152058.3 -1653.0  
 4092 9.4 152114.9 -1659.8  
 4093 7.0 152123.3 -1656.2  
 4094 9.1 152127.4 -1623.1  
 4095 8.6 152132.8 -1620.2  
 4096 9.9 152154.8 -1657.3  
 4097 8.5 152200.2 -1645.3  
 4098 9.6 152204.3 -1615.2  
 4099 6.5 152230.0 -1608.4  
 4100 9.8 152233.3 -1652.2

4101 9.5 152305.2 -1647.5  
 4102 9.3 152317.2 -1653.3  
 4103 9.1 152327.2 -1648.4  
 4104 8.3 152328.1 -1631.6  
 4105 9.2 152357.6 -1601.9  
 4106 9.7 152407.5 -1622.1  
 4107 9.7 152412.2 -1621.8  
 4108 9.4 152439.8 -1640.9  
 4109 9.9 152444.1 -1656.1  
 4110 6.3 152444.6 -1621.2

4111 8.3 152448.7 -1644.7  
 4112 8.2 152545.8 -1629.8  
 4113 8.3 152546.5 -1658.2  
 4114 7.5 152647.6 -1639.0  
 4115 9.6 152653.7 -1627.6  
 4116 8.8 152715.1 -1655.0  
 4117 9.5 152744.8 -1610.7  
 4118 9.8 152800.2 -1627.0  
 4119 9.5 152814.9 -1625.6  
 4120 8.0 152825.1 -1631.7

4121 9.1 152850.2 -1629.8  
 4122 9.0 152900.2 -1645.7  
 4123 8.3 152928.4 -1615.1  
 4124 9.4 152958.6 -1604.1  
 4125 9.2 153018.7 -1603.6  
 4126 9.6 153025.0 -1601.1  
 4127 9.4 153025.6 -1619.5  
 4128 10. 153044.2 -1616.3  
 4129 9.0 153048.6 -1635.5  
 4130 9.9 153105.1 -1640.7

4131 9.2 153106.3 -1606.9  
 4132 9.8 153111.1 -1624.1  
 4133 10. 153120.1 -1640.8  
 4134 9.3 153147.0 -1654.5  
 4135 8.2 153229.3 -1616.5  
 4136 9.5 153230.1 -1631.0  
 4137 9.2 153235.5 -1637.0  
 4138 9.2 153239.7 -1649.7  
 4139 9.3 153246.7 -1609.4  
 4140 9.3 153307.0 -1613.9

4141 10. 153320.4 -1647.7  
 4142 9.3 153343.6 -1610.2  
 4143 9.3 153344.3 -1627.1  
 4144 9.0 153357.4 -1654.4  
 4145 9.5 153401.9 -1658.5  
 4146 9.8 153409.1 -1612.9  
 4147 9.5 153425.0 -1631.1  
 4148 9.6 153450.6 -1658.3  
 4149 9.3 153520.3 -1612.7  
 4150 9.3 153539.0 -1629.2

4151 7.0 153544.1 -1624.3  
 4152 10. 153556.4 -1601.9  
 4153 9.5 153605.0 -1652.9  
 4154 8.7 153646.5 -1615.5  
 4155 7.3 153737.4 -1629.4  
 4156 9.6 153742.9 -1614.7  
 4157 7.5 153837.9 -1639.4  
 4158 9.1 153840.7 -1608.1  
 4159 9.8 153907.4 -1641.4  
 4160 8.5 153958.1 -1608.9

4161 9.4 154035.0 -1613.3  
 4162 9.8 154107.7 -1657.1  
 4163 9.5 154130.1 -1627.0  
 4164 8.2 154212.2 -1654.1  
 4165 9.5 154223.0 -1648.4  
 4166 8.9 154248.8 -1633.6  
 4167 9.8 154324.8 -1633.0  
 4168 9.4 154405.1 -1658.6  
 4169 8.5 154407.0 -1647.6  
 4170 9.3 154424.5 -1600.8

4171 9.4 154436.6 -1615.3  
 4172 9.4 154453.5 -1608.2  
 4173 9.3 154512.8 -1620.3  
 4174 4.8 154534.4 -1617.9  
 4175 9.7 154538.4 -1651.2  
 4176 9.3 154642.3 -1631.6  
 4177 9.0 154712.7 -1649.5  
 4178 9.0 154806.0 -1619.9  
 4179 8.8 154822.7 -1614.6  
 4180 8.8 154825.4 -1624.1

4181 9.5 154852.4 -1607.9  
 4182 9.4 154926.3 -1626.4  
 4183 8.5 154927.1 -1623.5  
 4184 9.3 154929.2 -1633.6  
 4185 7.8 154942.8 -1639.5  
 4186 9.7 154951.2 -1622.4  
 4187 9.7 154956.5 -1610.8  
 4188 9.4 155002.8 -1631.1  
 4189 9.0 155003.7 -1658.8  
 4190 9.8 155024.8 -1648.1

4191 9.5 155036.9 -1626.0  
 4192 9.8 155058.4 -1620.9  
 4193 8.5 155101.8 -1651.7  
 4194 9.6 155112.4 -1645.4  
 4195 9.8 155209.0 -1645.4  
 4196 6.2 155210.9 -1606.0  
 4197 8.8 155215.6 -1614.3  
 4198 9.3 155227.2 -1630.6  
 4199 9.5 155229.5 -1654.5  
 4200 9.4 155306.4 -1601.3

4201 9.4 155332.7 -1627.2  
 4202 9.4 155420.6 -1620.7  
 4203 9.1 155505.6 -1646.2  
 4204 9.5 155527.7 -1641.7  
 4205 9.5 155554.7 -1641.9  
 4206 9.5 155555.5 -1610.4  
 4207 10. 155622.8 -1619.6  
 4208 10. 155626.1 -1622.3  
 4209 8.8 155628.3 -1629.2  
 4210 9.5 155629.1 -1640.0

4211 9.2 155632.0 -1640.3  
 4212 9.6 155644.7 -1636.9  
 4213 9.3 155650.3 -1613.9  
 4214 9.3 155737.2 -1623.2  
 4215 9.1 155753.3 -1612.0  
 4216 9.4 155758.2 -1654.7  
 4217 9.6 155823.7 -1636.9  
 4218 9.2 155827.3 -1609.1  
 4219 7.3 155848.8 -1633.1  
 4220 9.0 155927.3 -1606.8

4221 9.5 155932.7 -1624.5  
 4222 8.3 155959.5 -1645.0  
 4223 9.2 160001.8 -1654.1  
 4224 9.6 160011.7 -1621.5  
 4225 9.5 160022.8 -1658.8  
 4226 9.7 160034.2 -1618.3  
 4227 9.5 160052.6 -1624.8  
 4228 8.8 160106.4 -1657.6  
 4229 9.1 160108.0 -1652.3  
 4230 7.8 160113.5 -1647.9

4231 9.8 160115.6 -1630.2  
 4232 9.6 160123.7 -1617.5  
 4233 9.8 160133.8 -1623.3  
 4234 9.0 160134.5 -1640.0  
 4235 9.5 160148.4 -1658.7  
 4236 9.5 160221.6 -1636.1  
 4237 9.5 160303.9 -1648.1  
 4238 9.3 160313.9 -1654.4  
 4239 9.8 160329.7 -1611.1  
 4240 10. 160337.0 -1643.7

4241 10. 160337.9 -1645.7  
 4242 9.0 160344.6 -1625.6  
 4243 9.2 160356.7 -1618.1  
 4244 9.1 160406.4 -1658.5  
 4245 9.6 160419.5 -1645.0  
 4246 9.5 160424.6 -1622.8  
 4247 9.5 160425.3 -1602.0  
 4248 9.6 160425.5 -1626.6  
 4249 9.2 160532.0 -1638.3  
 4250 9.2 160544.4 -1638.9

4251 8.3 160548.1 -1601.4  
 4252 8.5 160600.8 -1609.9  
 4253 9.5 160623.1 -1621.9  
 4254 9.5 160723.7 -1626.3  
 4255 9.9 160749.0 -1632.8  
 4256 9.5 160757.8 -1655.5  
 4257 9.1 160821.1 -1641.9  
 4258 8.9 160825.1 -1609.3  
 4259 9.8 160939.1 -1621.1  
 4260 9.3 160942.5 -1611.8

4261 9.8 160943.3 -1604.0  
 4262 9.3 160944.9 -1635.6  
 4263 9.5 160957.4 -1638.5  
 4264 9.5 161013.2 -1655.5  
 4265 8.5 161026.5 -1604.7  
 4266 9.3 161047.9 -1637.0  
 4267 9.1 161050.9 -1639.7  
 4268 9.0 161117.4 -1633.4  
 4269 8.5 161124.0 -1607.4  
 4270 9.9 161144.3 -1653.8

4271 10. 161146.0 -1618.6  
 4272 9.5 161206.8 -1654.7  
 4273 8.2 161215.8 -1644.2  
 4274 9.3 161225.0 -1635.2  
 4275 9.6 161353.8 -1636.1  
 4276 9.6 161413.8 -1630.9  
 4277 9.8 161423.6 -1606.8  
 4278 9.5 161426.4 -1628.6  
 4279 8.5 161431.5 -1648.2  
 4280 6.8 161433.8 -1640.0

4281 9.5 161448.3 -1628.3  
 4282 9.5 161506.3 -1634.7  
 4283 9.1 161530.4 -1624.0  
 4284 9.3 161549.2 -1622.2  
 4285 9.3 161550.3 -1610.9  
 4286 9.1 161601.5 -1602.4  
 4287 9.7 161958.4 -1622.7  
 4288 8.8 162035.6 -1650.8  
 4289 9.3 162041.5 -1604.2  
 4290 9.5 162104.7 -1637.5

4291 9.4 162136.7 -1617.0  
 4292 9.4 162127.1 -1631.7  
 4293 9.1 162153.7 -1640.4  
 4294 9.3 162203.1 -1615.1  
 4295 9.2 162209.3 -1618.5  
 4296 9.9 162229.6 -1623.2  
 4297 10. 162246.2 -1616.4  
 4298 5.0 162250.7 -1617.1  
 4299 9.2 162255.7 -1650.5  
 4300 9.7 162259.8 -1634.7

4301 9.4 162309.5 -1655.6  
 4302 9.5 162330.2 -1653.2  
 4303 9.3 162354.6 -1646.2  
 4304 9.5 162448.7 -1638.2  
 4305 9.6 162501.1 -1642.5  
 4306 9.6 162547.3 -1619.3  
 4307 10. 162555.0 -1651.1  
 4308 9.0 162617.2 -1636.7  
 4309 9.5 162645.2 -1625.6  
 4310 9.4 162649.1 -1640.3

4311 9.5 162651.5 -1650.4  
 4312 9.9 162651.6 -1611.9  
 4313 9.4 162751.2 -1643.0  
 4314 9.3 162751.3 -1653.5  
 4315 8.3 162840.0 -1651.5  
 4316 9.0 162916.7 -1604.6  
 4317 8.0 162917.7 -1633.1  
 4318 9.6 162927.0 -1603.0  
 4319 9.5 162939.5 -1648.5  
 4320 9.5 162952.2 -1605.3

4321 10. 163045.1 -1629.7  
 4322 9.8 163046.9 -1633.7  
 4323 9.7 163051.7 -1602.6  
 4324 9.5 163107.6 -1613.7  
 4325 7.7 163129.2 -1613.4  
 4326 8.9 163233.6 -1604.9  
 4327 8.0 163313.5 -1638.7  
 4328 8.5 163331.6 -1604.5  
 4329 9.7 163333.4 -1632.5  
 4330 9.6 163339.0 -1654.5

4331 9.6 163351.7 -1611.2  
 4332 8.5 163358.6 -1644.8  
 4333 9.2 163359.1 -1621.4  
 4334 9.2 163432.9 -1616.1  
 4335 9.9 163448.4 -1625.1  
 4336 9.5 163448.7 -1612.8  
 4337 10. 163452.0 -1633.2  
 4338 9.6 163543.0 -1639.0  
 4339 9.5 163549.4 -1649.1  
 4340 10. 163556.0 -1612.2

4341 9.5 163558.6 -1624.1  
 4342 9.5 163706.6 -1621.8  
 4343 8.7 163710.6 -1610.7  
 4344 8.4 163744.5 -1637.9  
 4345 9.5 163803.4 -1658.7  
 4346 9.1 163812.1 -1619.2  
 4347 9.0 163816.2 -1637.4  
 4348 9.5 163918.5 -1641.6  
 4349 9.8 163931.4 -1648.0  
 4350 7.8 164010.0 -1603.5



-16 4351 16h40m

4351 9.6 164035.9 -1631.9  
4352 9.8 164043.0 -1626.0  
4353 7.9 164102.5 -1630.8  
4354 8.6 164108.4 -1609.4  
4355 9.5 164135.3 -1650.2  
4356 9.5 164153.2 -1645.7  
4357 9.8 164155.2 -1610.6  
4358 10. 164222.1 -1618.8  
4359 9.0 164222.3 -1655.9  
4360 6.9 164235.5 -1617.3

4361 9.8 164251.6 -1630.2  
4362 9.8 164337.0 -1620.1  
4363 9.2 164337.3 -1615.9  
4364 9.1 164446.8 -1646.2  
4365 9.5 164544.3 -1655.5  
4366 9.1 164545.8 -1609.8  
4367 9.7 164631.8 -1657.3  
4368 9.7 164645.0 -1612.9  
4369 9.2 164711.0 -1652.8  
4370 9.5 164721.4 -1627.5

4371 6.2 164739.9 -1634.1  
4372 9.8 164807.0 -1641.2  
4373 9.6 164837.9 -1622.0  
4374 9.5 164843.9 -1650.6  
4375 9.8 164854.3 -1648.0  
4376 9.5 164858.8 -1647.5  
4377 9.5 164912.7 -1602.7  
4378 9.3 164915.7 -1648.8  
4379 9.9 164919.4 -1643.3  
4380 9.8 164935.3 -1615.6

4381 9.8 164948.9 -1621.1  
4382 9.5 164955.8 -1635.9  
4383 9.5 165028.3 -1641.5  
4384 9.3 165032.2 -1649.0  
4385 9.7 165043.2 -1618.7  
4386 7.8 165056.3 -1640.4  
4387 9.6 165116.3 -1655.9  
4388 9.5 165125.3 -1629.5  
4389 8.3 165146.9 -1625.2  
4390 9.4 165151.9 -1625.7

4391 9.5 165213.9 -1621.6  
4392 9.8 165217.3 -1633.7  
4393 9.3 165322.9 -1613.8  
4394 9.3 165331.5 -1610.6  
4395 9.8 165345.7 -1609.9  
4396 9.4 165354.7 -1609.9  
4397 9.2 165425.8 -1636.5  
4398 8.6 165454.7 -1620.9  
4399 9.5 165455.3 -1615.1  
4400 9.4 165458.7 -1645.4

4401 9.5 165500.1 -1635.2  
4402 9.4 165507.2 -1611.0  
4403 9.6 165508.6 -1604.5  
4404 9.2 165520.5 -1640.3  
4405 9.2 165520.5 -1627.8  
4406 9.4 165550.8 -1605.0  
4407 9.8 165602.9 -1636.3  
4408 9.5 165607.8 -1634.7  
4409 9.7 165610.7 -1618.0  
4410 8.9 165610.8 -1633.4

4411 9.1 165610.8 -1619.4  
4412 8.8 165618.2 -1638.9  
4413 9.8 165703.6 -1622.8  
4414 9.6 165724.2 -1630.6  
4415 9.5 165817.3 -1611.3  
4416 8.9 165834.5 -1614.6  
4417 9.0 165836.6 -1631.0  
4418 9.7 165839.4 -1618.5  
4419 9.5 165843.2 -1621.2  
4420 9.0 165846.8 -1611.7

4421 9.3 165957.2 -1620.6  
4422 8.2 170002.6 -1651.1  
4423 9.2 170037.1 -1649.0  
4424 9.5 170037.7 -1638.5  
4425 7.7 170038.4 -1642.3  
4426 8.0 170129.6 -1606.9  
4427 9.5 170143.2 -1647.0  
4428 9.3 170153.7 -1636.1  
4429 9.5 170211.1 -1605.2  
4430 9.3 170223.2 -1654.3

4431 9.6 170225.1 -1610.6  
4432 9.1 170229.9 -1601.2  
4433 9.5 170238.7 -1603.4  
4434 7.5 170240.0 -1627.0  
4435 9.5 170301.0 -1656.3  
4436 7.3 170307.3 -1618.1  
4437 9.4 170320.5 -1643.0  
4438 9.3 170347.2 -1627.0  
4439 9.2 170352.0 -1633.7  
4440 9.8 170355.1 -1631.3

4441 9.3 170409.5 -1653.6  
4442 9.5 170409.5 -1601.0  
4443 8.2 170437.2 -1620.0  
4444 9.1 170444.0 -1645.7  
4445 9.4 170448.7 -1610.6  
4446 9.4 170500.2 -1614.0  
4447 9.6 170501.9 -1618.2  
4448 9.6 170511.8 -1637.5  
4449 9.0 170525.9 -1603.9  
4450 10. 170533.8 -1654.6

4451 9.6 170604.0 -1657.1  
4452 9.7 170638.1 -1612.0  
4453 9.4 170653.0 -1634.0  
4454 9.7 170658.6 -1658.9  
4455 9.7 170711.6 -1642.1  
4456 10. 170724.7 -1604.5  
4457 9.5 170725.9 -1605.8  
4458 9.5 170729.5 -1622.5  
4459 8.8 170736.0 -1637.9  
4460 7.5 170740.2 -1601.3

4461 9.0 170750.1 -1605.2  
4462 9.5 170803.6 -1638.1  
4463 9.0 170818.5 -1659.2  
4464 8.9 170824.7 -1602.6  
4465 9.1 170827.0 -1620.0  
4466 8.6 170832.6 -1623.1  
4467 9.8 170915.5 -1639.7  
4468 9.0 170952.1 -1631.1  
4469 8.8 170955.0 -1619.5  
4470 6.5 170957.6 -1609.0

4471 8.8 171004.7 -1602.2  
4472 9.2 171012.3 -1612.8  
4473 10. 171036.2 -1603.5  
4474 9.8 171107.0 -1618.7  
4475 9.4 171110.8 -1659.6  
4476 9.8 171125.6 -1623.0  
4477 8.7 171132.6 -1606.2  
4478 8.5 171141.6 -1632.0  
4479 9.8 171143.1 -1625.3  
4480 9.0 171209.6 -1645.9

4481 9.2 171217.0 -1631.8  
4482 9.5 171232.9 -1647.5  
4483 9.4 171203.6 -1651.0  
4484 9.8 171314.1 -1640.3  
4485 9.5 171333.0 -1603.3  
4486 9.8 171346.5 -1630.2  
4487 9.6 171347.0 -1646.2  
4488 9.5 171353.1 -1630.8  
4489 9.4 171358.7 -1646.0  
4490 9.5 171418.5 -1612.7

4491 9.8 171428.5 -1605.5  
4492 9.7 171436.0 -1625.1  
4493 9.5 171436.8 -1616.7  
4494 9.8 171439.1 -1629.1  
4495 9.1 171454.8 -1631.7  
4496 9.3 171459.1 -1620.0  
4497 9.5 171514.4 -1642.0  
4498 9.4 171528.4 -1631.3  
4499 9.6 171535.1 -1627.7  
4500 9.7 171536.3 -1622.4

4501 9.6 171608.3 -1615.0  
4502 8.9 171623.4 -1624.6  
4503 8.5 171627.1 -1601.3  
4504 9.5 171631.5 -1601.3  
4505 9.4 171643.4 -1634.9  
4506 8.9 171707.0 -1631.6  
4507 9.8 171711.0 -1628.0  
4508 9.0 171713.3 -1618.9  
4509 9.4 171744.3 -1620.3  
4510 9.5 171744.4 -1644.1

4511 9.1 171747.5 -1609.9  
4512 8.2 171748.4 -1656.8  
4513 9.4 171752.9 -1624.3  
4514 9.0 171802.5 -1602.1  
4515 9.8 171806.7 -1649.4  
4516 9.7 171824.7 -1658.8  
4517 10. 171836.3 -1609.5  
4518 9.4 171859.4 -1615.4  
4519 9.4 171905.0 -1641.4  
4520 9.7 171927.4 -1647.5

4521 9.1 171941.5 -1641.6  
4522 9.6 171944.2 -1615.7  
4523 9.8 171959.5 -1623.9  
4524 9.4 172019.9 -1654.3  
4525 9.5 172047.6 -1618.8  
4526 8.4 172056.1 -1628.4  
4527 9.3 172057.0 -1640.1  
4528 10. 172109.7 -1651.8  
4529 9.1 172133.0 -1657.5  
4530 9.8 172144.4 -1626.3

4531 9.6 172151.8 -1608.7  
4532 10. 172206.1 -1652.9  
4533 9.9 172208.2 -1656.1  
4534 9.7 172213.8 -1656.0  
4535 9.5 172225.9 -1634.1  
4536 9.2 172232.6 -1602.9  
4537 9.1 172235.5 -1602.9  
4538 9.4 172253.7 -1638.3  
4539 9.7 172256.5 -1638.7  
4540 9.6 172257.7 -1623.3

4541 9.5 172336.4 -1641.2  
4542 10. 172402.3 -1616.7  
4543 9.7 172402.4 -1657.9  
4544 9.8 172408.8 -1602.8  
4545 9.1 172410.0 -1632.0  
4546 9.8 172417.7 -1607.1  
4547 9.8 172418.7 -1628.2  
4548 9.1 172422.9 -1643.0  
4549 9.3 172450.4 -1630.3  
4550 9.0 172454.5 -1602.5

4551 9.1 172502.7 -1626.4  
4552 9.8 172614.9 -1658.3  
4553 9.3 172619.4 -1631.7  
4554 8.5 172624.4 -1631.3  
4555 9.4 172634.9 -1632.6  
4556 9.9 172636.8 -1639.5  
4557 8.9 172644.0 -1605.7  
4558 9.8 172700.3 -1650.3  
4559 9.0 172743.4 -1620.2  
4560 9.8 172744.1 -1600.2

4561 9.8 172803.3 -1646.3  
4562 9.4 172804.6 -1631.8  
4563 9.0 172807.9 -1605.7  
4564 9.0 172810.8 -1631.8  
4565 9.7 172814.9 -1631.6  
4566 9.5 172835.8 -1628.9  
4567 9.0 172841.9 -1630.5  
4568 3.8 172851.6 -1637.6  
4569 3.0 172920.6 -1616.4  
4570 3.4 172923.9 -1654.8

4571 3.4 172925.8 -1615.9  
4572 3.6 172950.7 -1621.8  
4573 3.8 172951.7 -1613.4  
4574 9.4 173000.6 -1627.4  
4575 9.1 173001.1 -1612.2  
4576 9.8 173006.3 -1634.0  
4577 9.6 173021.9 -1614.2  
4578 9.6 173029.0 -1619.0  
4579 10. 173031.2 -1617.5  
4580 9.4 173031.3 -1622.4

4581 9.8 173034.1 -1623.9  
4582 10. 173116.2 -1613.5  
4583 9.3 173155.3 -1657.4  
4584 9.8 173208.2 -1642.4  
4585 9.8 173208.6 -1648.4  
4586 9.8 173221.9 -1624.0  
4587 9.6 173243.4 -1611.9  
4588 9.8 173247.6 -1640.4  
4589 10. 173247.8 -1615.7  
4590 9.5 173342.1 -1613.2

4591 9.0 173342.8 -1658.1  
4592 9.1 173343.1 -1625.3  
4593 9.4 173350.9 -1610.4  
4594 9.8 173424.3 -1634.7  
4595 9.8 173434.1 -1613.5  
4596 9.7 173451.8 -1650.8  
4597 9.5 173455.2 -1653.7  
4598 9.4 173456.1 -1607.3  
4599 8.3 173508.3 -1644.1  
4600 9.9 173508.9 -1642.5

4601 9.8 173545.8 -1612.9  
4602 9.1 173554.4 -1615.8  
4603 7.0 173556.0 -1647.5  
4604 9.4 173558.6 -1613.5  
4605 9.5 173558.7 -1600.2  
4606 9.7 173604.3 -1637.0  
4607 9.0 173614.9 -1642.3  
4608 9.5 173617.7 -1622.7  
4609 9.7 173625.4 -1613.8  
4610 8.0 173635.8 -1641.7

4611 9.6 173722.9 -1607.6  
4612 9.5 173736.8 -1653.8  
4613 8.0 173747.1 -1631.7  
4614 9.0 173819.9 -1653.2  
4615 9.8 173821.3 -1637.9  
4616 9.8 173931.2 -1647.6  
4617 9.4 173953.0 -1617.3  
4618 9.8 173955.5 -1617.6  
4619 9.7 173958.2 -1624.7  
4620 7.8 174001.8 -1646.3

4621 9.5 174007.4 -1611.4  
4622 8.3 174038.8 -1611.7  
4623 10. 174111.9 -1606.3  
4624 9.0 174122.0 -1606.7  
4625 10. 174126.8 -1609.3  
4626 9.8 174129.8 -1635.9  
4627 9.0 174200.3 -1625.5  
4628 9.5 174208.4 -1631.6  
4629 8.0 174221.4 -1606.2  
4630 9.0 174236.9 -1641.9

4631 8.8 174256.3 -1621.8  
4632 9.8 174317.0 -1605.9  
4633 9.4 174325.7 -1621.8  
4634 9.6 174332.9 -1656.9  
4635 9.3 174339.2 -1647.2  
4636 9.1 174342.2 -1614.2  
4637 8.0 174342.5 -1644.5  
4638 9.4 174355.8 -1615.0  
4639 7.2 174356.4 -1655.4  
4640 8.0 174359.3 -1636.4

4641 9.8 174405.0 -1605.6  
4642 9.4 174411.3 -1625.0  
4643 9.5 174416.7 -1623.3  
4644 9.1 174420.9 -1615.0  
4645 9.8 174427.0 -1659.6  
4646 9.5 174454.5 -1604.9  
4647 9.0 174456.4 -1620.0  
4648 9.8 174517.3 -1623.1  
4649 9.4 174536.7 -1645.7  
4650 9.5 174540.9 -1616.6

4651 9.6 174540.0 -1617.5  
4652 9.8 174625.8 -1656.5  
4653 9.4 174644.0 -1618.0  
4654 9.5 174724.9 -1607.2  
4655 9.4 174725.1 -1612.1  
4656 9.0 174727.8 -1643.0  
4657 9.4 174735.8 -1622.2  
4658 9.4 174749.7 -1612.9  
4659 10. 174801.2 -1656.9  
4660 9.7 174811.7 -1622.6

4661 8.8 174821.9 -1631.2  
4662 9.5 174850.2 -1637.9  
4663 8.6 174925.0 -1618.1  
4664 9.2 174954.1 -1606.9  
4665 9.8 174982.8 -1620.7  
4666 9.3 174985.2 -1638.4  
4667 8.7 174925.9 -1646.2  
4668 9.4 174940.6 -1645.5  
4669 9.5 174956.0 -1603.4  
4670 9.5 175017.9 -1627.5

4671 7.0 175018.4 -1649.9  
4672 9.5 175022.3 -1612.0  
4673 8.9 175036.7 -1618.7  
4674 9.5 175101.9 -1606.2  
4675 9.8 175105.7 -1630.0  
4676 9.6 175114.6 -1613.5  
4677 9.7 175121.8 -1621.5  
4678 7.3 175151.4 -1603.1  
4679 9.1 175159.7 -1630.7  
4680 9.6 175233.8 -1607.7

4681 9.5 175240.5 -1613.0  
4682 9.8 175247.2 -1628.4  
4683 9.5 175252.6 -1652.9  
4684 9.8 175252.6 -1601.9  
4685 9.8 175253.1 -1606.0  
4686 9.8 175303.8 -1646.6  
4687 8.0 175318.8 -1625.9  
4688 9.5 175321.6 -1649.2  
4689 9.5 175331.9 -1612.0  
4690 8.0 175348.2 -1612.8

4691 9.9 175352.5 -1640.1  
4692 9.1 175401.9 -1658.3  
4693 9.5 175414.9 -1638.3  
4694 9.8 175437.8 -1620.5  
4695 9.5 175501.3 -1616.6  
4696 9.5 175520.2 -1647.5  
4697 9.3 175531.4 -1656.5  
4698 9.5 175540.1 -1643.5  
4699 9.5 175556.2 -1635.0  
4700 9.8 175556.8 -1640.6

4701 9.1 175617.5 -1630.0  
4702 8.3 175636.0 -1601.0  
4703 9.2 175701.4 -1605.2  
4704 9.5 175708.9 -1601.6  
4705 9.4 175712.0 -1643.8  
4706 9.1 175753.7 -1642.0  
4707 9.0 175818.6 -1656.1  
4708 9.3 175836.1 -1653.5  
4709 9.8 175840.2 -1627.7  
4710 10. 175846.2 -1658.7

-16 4710 17h58m



|      |     |          |         |      |      |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|------|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 4711 | 9.0 | 175848.7 | -1640.0 | 4801 | 9.5  | 180952.7 | -1659.0 | 4891 | 9.7 | 182018.4 | -1638.2 | 4981 | 8.8 | 183243.5 | -1640.5 |
| 4712 | 9.4 | 175908.5 | -1608.4 | 4802 | 9.1  | 180958.6 | -1642.5 | 4892 | 9.6 | 182018.7 | -1655.2 | 4982 | 9.8 | 183246.7 | -1611.9 |
| 4713 | 9.6 | 175912.3 | -1657.1 | 4803 | 9.0  | 181022.6 | -1621.2 | 4893 | 8.8 | 182040.0 | -1630.1 | 4983 | 9.9 | 183259.9 | -1614.0 |
| 4714 | 10. | 175916.2 | -1659.2 | 4804 | 9.1  | 181032.8 | -1642.7 | 4894 | 9.5 | 182046.3 | -1641.3 | 4984 | 8.9 | 183310.4 | -1606.7 |
| 4715 | 10. | 175919.5 | -1615.7 | 4805 | 8.5  | 181040.5 | -1642.6 | 4895 | 9.2 | 182051.6 | -1651.8 | 4985 | 8.8 | 183329.7 | -1656.5 |
| 4716 | 8.8 | 175923.2 | -1603.1 | 4806 | 8.8  | 181041.6 | -1620.6 | 4896 | 9.2 | 182052.5 | -1638.6 | 4986 | 9.1 | 183333.3 | -1615.7 |
| 4717 | 9.8 | 175926.6 | -1642.7 | 4807 | 9.0  | 181042.0 | -1625.9 | 4897 | 9.5 | 182101.9 | -1638.6 | 4987 | 8.3 | 183334.3 | -1631.2 |
| 4718 | 9.0 | 175934.7 | -1637.8 | 4808 | 9.5  | 181048.6 | -1601.2 | 4898 | 9.5 | 182111.0 | -1601.2 | 4988 | 9.5 | 183339.4 | -1635.0 |
| 4719 | 9.8 | 175937.2 | -1631.2 | 4809 | 9.3  | 181100.1 | -1648.1 | 4899 | 8.5 | 182114.2 | -1610.8 | 4989 | 9.8 | 183339.7 | -1643.5 |
| 4720 | 8.0 | 180006.4 | -1625.6 | 4810 | 9.6  | 181108.7 | -1649.6 | 4900 | 8.3 | 182114.4 | -1643.7 | 4990 | 8.7 | 183408.3 | -1602.4 |
| 4721 | 8.9 | 180006.5 | -1630.3 | 4811 | 9.1  | 181114.8 | -1603.8 | 4901 | 9.5 | 182115.3 | -1633.7 | 4991 | 9.0 | 183410.0 | -1603.6 |
| 4722 | 9.4 | 180025.1 | -1637.2 | 4812 | 9.2  | 181118.1 | -1604.2 | 4902 | 9.0 | 182125.1 | -1648.1 | 4992 | 9.8 | 183410.1 | -1620.5 |
| 4723 | 9.5 | 180041.9 | -1629.6 | 4813 | 9.4  | 181147.6 | -1604.3 | 4903 | 8.2 | 182146.9 | -1617.0 | 4993 | 9.8 | 183424.7 | -1614.3 |
| 4724 | 9.0 | 180042.2 | -1625.2 | 4814 | 9.7  | 181149.1 | -1652.3 | 4904 | 9.8 | 182202.1 | -1659.5 | 4994 | 9.4 | 183431.3 | -1646.0 |
| 4725 | 10. | 180055.7 | -1625.4 | 4815 | 9.5  | 181202.0 | -1603.3 | 4905 | 8.9 | 182209.7 | -1643.7 | 4995 | 9.0 | 183445.8 | -1635.5 |
| 4726 | 9.9 | 180056.3 | -1621.9 | 4816 | 9.6  | 181205.7 | -1615.7 | 4906 | 9.0 | 182227.8 | -1601.3 | 4996 | 9.5 | 183457.0 | -1653.9 |
| 4727 | 9.6 | 180057.0 | -1611.7 | 4817 | 10.  | 181209.4 | -1622.6 | 4907 | 8.5 | 182235.3 | -1640.1 | 4997 | 9.3 | 183459.1 | -1648.4 |
| 4728 | 9.0 | 180115.3 | -1651.5 | 4818 | 9.4  | 181213.4 | -1614.2 | 4908 | 9.8 | 182252.8 | -1602.5 | 4998 | 7.8 | 183462.1 | -1613.6 |
| 4729 | 9.7 | 180119.2 | -1616.8 | 4819 | 9.7  | 181222.5 | -1608.6 | 4909 | 10. | 182302.5 | -1603.3 | 4999 | 9.8 | 183512.9 | -1643.7 |
| 4730 | 9.8 | 180144.6 | -1656.5 | 4820 | 20.0 | 181224.1 | -1613.6 | 4910 | 8.3 | 182309.6 | -1604.6 | 5000 | 9.8 | 183546.6 | -1621.0 |
| 4731 | 9.4 | 180147.8 | -1614.2 | 4821 | 9.2  | 181225.8 | -1621.0 | 4911 | 9.3 | 182326.6 | -1613.3 | 5001 | 9.4 | 183549.6 | -1656.7 |
| 4732 | 8.5 | 180149.3 | -1616.8 | 4822 | 9.2  | 181226.3 | -1605.6 | 4912 | 9.6 | 182340.0 | -1646.1 | 5002 | 9.9 | 183559.4 | -1621.3 |
| 4733 | 9.2 | 180156.6 | -1648.1 | 4823 | 10.  | 181229.4 | -1600.9 | 4913 | 9.5 | 182346.2 | -1656.2 | 5003 | 9.1 | 183600.9 | -1631.7 |
| 4734 | 9.5 | 180204.2 | -1629.3 | 4824 | 5.8  | 181229.5 | -1605.2 | 4914 | 9.8 | 182352.8 | -1613.1 | 5004 | 9.5 | 183608.8 | -1639.5 |
| 4735 | 9.5 | 180205.3 | -1616.8 | 4825 | 9.8  | 181230.5 | -1606.1 | 4915 | 9.0 | 182357.4 | -1612.2 | 5005 | 9.5 | 183618.8 | -1652.5 |
| 4736 | 7.3 | 180209.6 | -1646.2 | 4826 | 9.6  | 181241.8 | -1604.9 | 4916 | 8.9 | 182359.3 | -1619.3 | 5006 | 9.0 | 183618.8 | -1656.4 |
| 4737 | 7.6 | 180214.1 | -1650.5 | 4827 | 9.5  | 181244.5 | -1608.3 | 4917 | 9.5 | 182404.4 | -1602.6 | 5007 | 8.3 | 183628.1 | -1613.6 |
| 4738 | 9.5 | 180215.5 | -1625.2 | 4828 | 9.1  | 181249.5 | -1604.0 | 4918 | 9.1 | 182405.7 | -1652.8 | 5008 | 9.5 | 183639.7 | -1620.5 |
| 4739 | 9.1 | 180218.9 | -1643.5 | 4829 | 8.7  | 181252.2 | -1626.2 | 4919 | 8.5 | 182407.0 | -1601.5 | 5009 | 9.6 | 183647.3 | -1607.6 |
| 4740 | 9.6 | 180236.1 | -1619.3 | 4830 | 8.9  | 181257.7 | -1626.4 | 4920 | 9.4 | 182414.8 | -1637.0 | 5010 | 9.2 | 183653.6 | -1655.5 |
| 4741 | 9.5 | 180242.2 | -1639.5 | 4831 | 10.  | 181258.3 | -1603.4 | 4921 | 9.8 | 182419.7 | -1656.1 | 5011 | 9.1 | 183702.1 | -1646.5 |
| 4742 | 9.5 | 180243.6 | -1646.4 | 4832 | 9.3  | 181305.0 | -1605.0 | 4922 | 7.3 | 182438.8 | -1639.5 | 5012 | 9.5 | 183705.8 | -1629.3 |
| 4743 | 9.3 | 180244.1 | -1659.8 | 4833 | 9.4  | 181305.0 | -1656.9 | 4923 | 9.4 | 182441.6 | -1653.0 | 5013 | 9.1 | 183706.9 | -1639.4 |
| 4744 | 8.5 | 180248.4 | -1643.6 | 4834 | 9.3  | 181308.4 | -1600.6 | 4924 | 9.5 | 182445.2 | -1604.0 | 5014 | 9.8 | 183713.7 | -1611.1 |
| 4745 | 9.8 | 180312.0 | -1603.2 | 4835 | 9.5  | 181312.8 | -1616.3 | 4925 | 8.2 | 182447.7 | -1656.7 | 5015 | 9.3 | 183715.2 | -1644.7 |
| 4746 | 8.8 | 180320.7 | -1606.4 | 4836 | 7.8  | 181326.5 | -1623.0 | 4926 | 9.4 | 182454.4 | -1610.7 | 5016 | 9.6 | 183723.3 | -1618.8 |
| 4747 | 8.2 | 180323.8 | -1655.1 | 4837 | 9.1  | 181328.7 | -1639.8 | 4927 | 9.4 | 182500.1 | -1610.6 | 5017 | 9.5 | 183727.4 | -1632.7 |
| 4748 | 9.3 | 180328.4 | -1645.2 | 4838 | 9.5  | 181334.6 | -1635.0 | 4928 | 8.0 | 182500.4 | -1608.5 | 5018 | 9.5 | 183739.4 | -1647.9 |
| 4749 | 9.5 | 180345.5 | -1604.6 | 4839 | 9.1  | 181356.4 | -1657.0 | 4929 | 9.2 | 182501.8 | -1632.4 | 5019 | 9.3 | 183751.3 | -1653.8 |
| 4750 | 9.5 | 180354.8 | -1611.9 | 4840 | 9.0  | 181400.6 | -1608.2 | 4930 | 8.3 | 182502.8 | -1658.5 | 5020 | 9.7 | 183752.5 | -1616.3 |
| 4751 | 9.5 | 180402.1 | -1637.1 | 4841 | 9.2  | 181404.1 | -1636.8 | 4931 | 9.1 | 182512.9 | -1655.1 | 5021 | 9.0 | 183755.8 | -1612.1 |
| 4752 | 7.5 | 180404.7 | -1624.4 | 4842 | 9.5  | 181409.7 | -1640.2 | 4932 | 8.0 | 182544.5 | -1636.4 | 5022 | 8.9 | 183821.3 | -1657.8 |
| 4753 | 8.5 | 180416.9 | -1602.2 | 4843 | 9.7  | 181411.3 | -1615.5 | 4933 | 9.3 | 182613.2 | -1640.0 | 5023 | 9.5 | 183836.4 | -1632.9 |
| 4754 | 8.9 | 180425.2 | -1636.5 | 4844 | 9.7  | 181411.8 | -1623.4 | 4934 | 9.2 | 182613.6 | -1650.5 | 5024 | 9.5 | 183844.6 | -1632.0 |
| 4755 | 8.5 | 180426.3 | -1619.2 | 4845 | 9.4  | 181413.1 | -1605.4 | 4935 | 9.8 | 182615.2 | -1641.6 | 5025 | 9.8 | 183847.3 | -1646.8 |
| 4756 | 9.3 | 180427.4 | -1618.4 | 4846 | 9.5  | 181416.2 | -1612.6 | 4936 | 9.1 | 182628.3 | -1614.2 | 5026 | 9.0 | 183848.7 | -1650.8 |
| 4757 | 9.1 | 180432.1 | -1653.0 | 4847 | 8.7  | 181425.9 | -1659.3 | 4937 | 9.3 | 182645.2 | -1618.1 | 5027 | 9.5 | 183902.8 | -1657.4 |
| 4758 | 9.3 | 180518.4 | -1636.0 | 4848 | 10.  | 181437.3 | -1622.9 | 4938 | 8.9 | 182655.5 | -1656.1 | 5028 | 8.2 | 183909.8 | -1607.6 |
| 4759 | 10. | 180550.1 | -1651.7 | 4849 | 9.8  | 181444.6 | -1636.9 | 4939 | 9.2 | 182655.7 | -1619.3 | 5029 | 9.0 | 183917.2 | -1617.3 |
| 4760 | 10. | 180558.4 | -1654.2 | 4850 | 8.2  | 181447.2 | -1639.6 | 4940 | 9.5 | 182656.2 | -1602.9 | 5030 | 9.0 | 183918.9 | -1641.9 |
| 4761 | 9.3 | 180607.2 | -1631.8 | 4851 | 9.5  | 181451.2 | -1616.6 | 4941 | 7.5 | 182659.4 | -1614.6 | 5031 | 9.3 | 183928.4 | -1623.4 |
| 4762 | 9.3 | 180612.6 | -1631.0 | 4852 | 9.0  | 181454.4 | -1647.0 | 4942 | 9.5 | 182715.6 | -1617.1 | 5032 | 9.4 | 183929.1 | -1648.0 |
| 4763 | 9.3 | 180614.6 | -1630.3 | 4853 | 9.4  | 181455.6 | -1604.4 | 4943 | 9.4 | 182717.2 | -1602.4 | 5033 | 7.4 | 183936.6 | -1655.8 |
| 4764 | 9.8 | 180618.3 | -1630.8 | 4854 | 9.5  | 181500.1 | -1607.7 | 4944 | 10. | 182735.3 | -1627.6 | 5034 | 7.8 | 183945.8 | -1634.3 |
| 4765 | 9.8 | 180627.5 | -1637.8 | 4855 | 9.6  | 181539.4 | -1610.5 | 4945 | 9.5 | 182737.3 | -1632.0 | 5035 | 9.5 | 183946.0 | -1613.0 |
| 4766 | 9.0 | 180645.2 | -1606.8 | 4856 | 10.  | 181558.2 | -1612.8 | 4946 | 9.8 | 182754.9 | -1656.0 | 5036 | 9.3 | 183954.7 | -1613.8 |
| 4767 | 9.0 | 180645.8 | -1604.0 | 4857 | 9.4  | 181559.0 | -1659.0 | 4947 | 9.8 | 182809.6 | -1658.0 | 5037 | 9.5 | 184017.6 | -1645.5 |
| 4768 | 9.8 | 180650.7 | -1600.2 | 4858 | 9.5  | 181607.6 | -1604.4 | 4948 | 9.8 | 182811.0 | -1632.3 | 5038 | 9.4 | 184021.9 | -1654.9 |
| 4769 | 9.1 | 180652.1 | -1651.0 | 4859 | 8.7  | 181620.8 | -1652.4 | 4949 | 9.5 | 182813.4 | -1651.0 | 5039 | 9.4 | 184026.4 | -1617.5 |
| 4770 | 9.5 | 180652.9 | -1636.0 | 4860 | 9.6  | 181628.2 | -1600.8 | 4950 | 9.8 | 182817.2 | -1610.8 | 5040 | 8.5 | 184030.9 | -1624.1 |
| 4771 | 7.3 | 180657.1 | -1652.0 | 4861 | 8.3  | 181630.8 | -1620.9 | 4951 | 9.3 | 182818.0 | -1645.0 | 5041 | 7.3 | 184106.4 | -1652.7 |
| 4772 | 9.7 | 180659.9 | -1607.4 | 4862 | 9.3  | 181636.8 | -1620.5 | 4952 | 7.0 | 182825.8 | -1603.4 | 5042 | 9.3 | 184107.7 | -1628.3 |
| 4773 | 8.7 | 180700.6 | -1649.8 | 4863 | 9.2  | 181637.8 | -1650.2 | 4953 | 9.0 | 182827.7 | -1649.6 | 5043 | 9.5 | 184131.5 | -1658.9 |
| 4774 | 9.7 | 180702.9 | -1626.1 | 4864 | 9.0  | 181659.4 | -1635.0 | 4954 | 9.8 | 182829.4 | -1622.6 | 5044 | 9.3 | 184138.6 | -1629.9 |
| 4775 | 9.4 | 180703.8 | -1659.6 | 4865 | 9.8  | 181705.5 | -1616.6 | 4955 | 8.5 | 182834.4 | -1624.2 | 5045 | 9.5 | 184144.7 | -1626.3 |
| 4776 | 9.2 | 180714.0 | -1616.4 | 4866 | 9.8  | 181707.2 | -1633.5 | 4956 | 8.7 | 182847.4 | -1622.6 | 5046 | 8.4 | 184219.3 | -1655.2 |
| 4777 | 9.4 | 180727.2 | -1603.9 | 4867 | 9.5  | 181722.2 | -1601.6 | 4957 | 9.3 | 182850.7 | -1609.0 | 5047 | 10. | 184222.6 | -1605.1 |
| 4778 | 9.4 | 180738.1 | -1602.9 | 4868 | 9.5  | 181724.2 | -1616.6 | 4958 | 9.5 | 182908.5 | -1625.8 | 5048 | 8.0 | 184254.7 | -1619.0 |
| 4779 | 9.0 | 180744.6 | -1653.1 | 4869 | 9.5  | 181734.1 | -1621.4 | 4959 | 10. | 182923.1 | -1628.2 | 5049 | 9.8 | 184309.4 | -1612.8 |
| 4780 | 10. | 180748.9 | -1600.0 | 4870 | 9.8  | 181737.1 | -1604.7 | 4960 | 9.5 | 182955.8 | -1645.2 | 5050 | 9.5 | 184320.9 | -1618.0 |
| 4781 | 9.0 | 180750.1 | -1650.1 | 4871 | 8.2  | 181747.3 | -1600.4 | 4961 | 9.3 | 183010.2 | -1615.4 | 5051 | 8.3 | 184328.5 | -1640.9 |
| 4782 | 9.8 | 180759.6 | -1605.5 | 4872 | 9.0  | 181751.3 | -1654.0 | 4962 | 9.5 | 183014.1 | -1621.5 | 5052 | 9.7 | 184331.0 | -1614.2 |
| 4783 | 9.9 | 180804.6 | -1647.0 | 4873 | 9.8  | 181751.6 | -1640.6 | 4963 | 7.8 | 183      |         |      |     |          |         |



|                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 5071 9.2 184612.8 -1600.9  | 5161 9.5 185942.2 -1648.7  | 5251 9.3 190914.2 -1610.5  | 5341 9.3 192258.6 -1612.9  |
| 5072 9.0 184625.1 -1633.8  | 5162 9.3 185948.2 -1616.8  | 5252 9.6 190917.5 -1651.7  | 5342 9.4 192301.1 -1627.3  |
| 5073 9.8 184630.6 -1608.5  | 5163 9.0 185949.0 -1650.0  | 5253 6.8 190920.9 -1613.2  | 5343 9.6 192314.1 -1617.1  |
| 5074 8.2 184632.4 -1642.1  | 5164 9.5 185954.2 -1653.0  | 5254 9.8 190922.6 -1607.2  | 5344 7.8 192407.7 -1603.1  |
| 5075 9.5 184646.1 -1656.0  | 5165 8.0 190009.7 -1605.9  | 5255 9.0 190931.0 -1636.6  | 5345 9.0 192412.5 -1634.7  |
| 5076 9.4 184652.9 -1628.0  | 5166 10.1 190021.1 -1622.5 | 5256 7.7 190946.2 -1612.3  | 5346 9.0 192419.6 -1637.6  |
| 5077 9.0 184708.4 -1636.8  | 5167 9.5 190021.8 -1600.1  | 5257 8.7 190950.2 -1631.2  | 5347 9.5 192430.7 -1613.7  |
| 5078 5.2 184709.4 -1633.5  | 5168 9.8 190034.2 -1619.8  | 5258 9.8 190951.5 -1644.7  | 5348 9.1 192437.6 -1637.6  |
| 5079 9.1 184713.9 -1633.9  | 5169 8.8 190036.9 -1626.8  | 5259 8.2 190953.1 -1656.6  | 5349 9.5 192444.1 -1628.0  |
| 5080 9.8 184714.5 -1623.6  | 5170 9.5 190041.4 -1645.4  | 5260 8.0 190958.9 -1605.3  | 5350 9.8 192459.8 -1602.6  |
| 5081 9.1 184716.4 -1646.8  | 5171 8.5 190059.1 -1603.4  | 5261 9.7 191006.5 -1616.6  | 5351 8.0 192501.0 -1655.2  |
| 5082 10.1 184719.7 -1616.4 | 5172 9.4 190059.8 -1601.1  | 5262 9.6 191007.7 -1613.3  | 5352 9.5 192501.4 -1615.3  |
| 5083 7.3 184722.6 -1631.2  | 5173 9.5 190101.8 -1649.4  | 5263 9.7 191011.1 -1630.3  | 5353 9.3 192502.4 -1654.1  |
| 5084 9.0 184741.5 -1645.0  | 5174 9.5 190110.3 -1623.0  | 5264 9.0 191013.4 -1645.3  | 5354 9.5 192506.5 -1656.2  |
| 5085 9.9 184750.4 -1650.9  | 5175 9.3 190119.0 -1607.8  | 5265 9.8 191015.2 -1609.5  | 5355 9.5 192510.6 -1643.2  |
| 5086 9.4 184755.7 -1650.0  | 5176 10.1 190175.2 -1620.4 | 5266 9.5 191018.6 -1626.3  | 5356 8.0 192533.2 -1607.5  |
| 5087 9.1 184804.4 -1654.5  | 5177 9.4 190128.9 -1632.8  | 5267 9.7 191021.9 -1619.8  | 5357 8.0 192540.1 -1635.2  |
| 5088 9.9 184817.4 -1603.6  | 5178 8.6 190133.0 -1652.2  | 5268 9.7 191025.2 -1621.9  | 5358 9.8 192552.9 -1617.8  |
| 5089 9.4 184834.0 -1627.1  | 5179 9.0 190149.9 -1649.2  | 5269 9.8 191030.5 -1646.5  | 5359 7.5 192555.6 -1636.8  |
| 5090 9.5 184836.9 -1629.1  | 5180 9.6 190151.4 -1612.6  | 5270 9.5 191038.5 -1600.4  | 5360 7.2 192600.2 -1641.3  |
| 5091 9.5 184843.3 -1605.7  | 5181 9.5 190152.4 -1630.1  | 5271 9.5 191044.1 -1614.3  | 5361 9.0 192601.7 -1608.2  |
| 5092 9.8 184849.1 -1659.8  | 5182 9.4 190158.6 -1619.5  | 5272 6.8 191051.9 -1610.2  | 5362 9.5 192629.1 -1650.5  |
| 5093 9.8 184906.6 -1657.8  | 5183 9.0 190159.1 -1631.5  | 5273 9.1 191054.9 -1656.3  | 5363 9.1 192634.6 -1626.5  |
| 5094 9.7 184909.8 -1616.7  | 5184 9.5 190200.9 -1603.8  | 5274 9.5 191102.0 -1626.5  | 5364 9.8 192640.2 -1606.1  |
| 5095 9.5 184911.5 -1627.0  | 5185 9.2 190207.4 -1631.4  | 5275 9.4 191132.9 -1619.8  | 5365 9.5 192658.7 -1648.0  |
| 5096 9.1 184930.7 -1643.8  | 5186 9.0 190227.8 -1644.2  | 5276 9.3 191133.7 -1602.3  | 5366 9.5 192711.2 -1613.9  |
| 5097 9.8 184930.8 -1639.8  | 5187 7.8 190247.5 -1608.9  | 5277 9.2 191200.6 -1638.6  | 5367 9.0 192736.8 -1601.1  |
| 5098 9.5 184931.2 -1614.9  | 5188 9.1 190251.6 -1619.5  | 5278 9.1 191211.5 -1624.1  | 5368 9.1 192745.2 -1653.3  |
| 5099 9.5 185003.5 -1624.2  | 5189 9.4 190254.9 -1654.1  | 5279 9.1 191236.0 -1651.7  | 5369 9.5 192752.9 -1615.7  |
| 5100 8.2 185012.7 -1649.4  | 5190 9.1 190309.5 -1629.5  | 5280 9.5 191257.5 -1642.4  | 5370 9.5 192811.4 -1614.0  |
| 5101 9.5 185015.1 -1622.6  | 5191 9.0 190309.8 -1617.1  | 5281 9.2 191306.5 -1605.0  | 5371 9.1 192811.5 -1604.3  |
| 5102 9.5 185021.9 -1611.5  | 5192 9.1 190311.4 -1635.7  | 5282 9.1 191324.0 -1633.0  | 5372 9.5 192817.4 -1619.5  |
| 5103 7.8 185046.1 -1603.2  | 5193 9.8 190330.9 -1654.3  | 5283 4.7 191325.1 -1613.1  | 5373 9.5 192822.7 -1625.0  |
| 5104 9.5 185049.4 -1655.3  | 5194 9.0 190347.1 -1609.1  | 5284 10.1 191328.9 -1617.8 | 5374 9.3 192834.2 -1628.0  |
| 5105 9.3 185053.0 -1649.8  | 5195 9.0 190347.1 -1602.4  | 5285 9.2 191330.6 -1620.9  | 5375 9.7 192841.9 -1617.4  |
| 5106 9.6 185105.5 -1654.0  | 5196 8.0 190348.2 -1639.7  | 5286 9.5 191344.0 -1608.5  | 5376 9.1 192843.8 -1602.9  |
| 5107 9.1 185108.7 -1603.1  | 5197 9.5 190348.5 -1615.9  | 5287 8.8 191355.8 -1651.8  | 5377 9.0 192844.9 -1645.9  |
| 5108 7.8 185118.5 -1617.7  | 5198 8.8 190356.0 -1631.6  | 5288 9.2 191421.2 -1616.5  | 5378 9.2 192850.9 -1653.4  |
| 5109 9.0 185143.0 -1624.5  | 5199 9.8 190400.8 -1657.5  | 5289 8.9 191436.6 -1642.9  | 5379 8.9 192855.6 -1641.1  |
| 5110 9.1 185158.8 -1636.7  | 5200 9.5 190413.0 -1650.4  | 5290 9.8 191436.9 -1651.1  | 5380 9.4 192914.1 -1626.6  |
| 5111 9.5 185208.5 -1657.3  | 5201 9.5 190415.3 -1616.2  | 5291 9.1 191502.0 -1636.2  | 5381 8.8 192921.2 -1646.0  |
| 5112 9.1 185232.0 -1653.6  | 5202 9.6 190431.4 -1655.6  | 5292 8.7 191507.8 -1646.5  | 5382 9.8 192927.7 -1618.0  |
| 5113 8.0 185237.6 -1624.9  | 5203 9.5 190456.6 -1630.7  | 5293 7.8 191519.7 -1605.3  | 5383 8.9 192954.7 -1608.0  |
| 5114 9.5 185251.5 -1613.4  | 5204 9.3 190503.1 -1659.6  | 5294 9.6 191527.6 -1651.7  | 5384 9.4 192977.1 -1641.1  |
| 5115 9.3 185301.4 -1652.3  | 5205 9.2 190517.3 -1602.2  | 5295 9.5 191545.6 -1627.5  | 5385 9.5 192987.7 -1650.1  |
| 5116 8.3 185307.6 -1620.2  | 5206 9.1 190518.6 -1601.6  | 5296 9.1 191549.3 -1635.4  | 5386 9.4 193019.5 -1610.7  |
| 5117 9.4 185314.3 -1607.8  | 5207 9.5 190523.3 -1656.2  | 5297 9.6 191602.5 -1653.7  | 5387 9.7 193017.1 -1643.5  |
| 5118 9.8 185347.1 -1615.7  | 5208 8.5 190524.8 -1614.0  | 5298 9.0 191609.1 -1644.6  | 5388 9.5 193027.2 -1626.9  |
| 5119 9.4 185350.1 -1627.5  | 5209 8.5 190538.0 -1654.9  | 5299 9.4 191613.7 -1656.7  | 5389 9.4 193037.6 -1638.1  |
| 5120 9.5 185354.4 -1608.2  | 5210 9.2 190539.8 -1616.7  | 5300 9.1 191614.8 -1651.2  | 5390 9.0 193101.5 -1612.4  |
| 5121 9.4 185357.1 -1611.5  | 5211 8.0 190545.1 -1608.3  | 5301 9.7 191643.0 -1603.9  | 5391 10.1 193111.7 -1625.1 |
| 5122 9.0 185410.5 -1605.5  | 5212 9.5 190556.0 -1629.2  | 5302 9.4 191655.6 -1612.5  | 5392 9.1 193121.2 -1645.2  |
| 5123 7.8 185410.8 -1647.8  | 5213 9.9 190557.5 -1630.5  | 5303 9.0 191656.0 -1611.0  | 5393 9.4 193121.5 -1621.6  |
| 5124 8.3 185434.7 -1611.2  | 5214 9.4 190636.0 -1616.0  | 5304 10.1 191713.5 -1602.9 | 5394 9.2 193131.5 -1625.8  |
| 5125 9.3 185442.6 -1618.0  | 5215 8.9 190642.5 -1613.4  | 5305 9.8 191723.6 -1608.9  | 5395 9.4 193131.4 -1656.5  |
| 5126 9.5 185453.7 -1633.1  | 5216 9.5 190644.7 -1624.4  | 5306 9.5 191723.9 -1652.0  | 5396 9.3 193156.4 -1657.9  |
| 5127 9.3 185514.0 -1619.6  | 5217 9.6 190645.8 -1615.1  | 5307 9.0 191727.3 -1652.0  | 5397 9.2 193157.7 -1617.2  |
| 5128 8.3 185530.1 -1612.7  | 5218 9.8 190654.9 -1634.6  | 5308 9.3 191755.5 -1633.1  | 5398 8.7 193204.8 -1607.9  |
| 5129 9.5 185549.2 -1622.0  | 5219 9.7 190655.8 -1606.6  | 5309 9.4 191808.6 -1611.5  | 5399 5.5 193225.2 -1636.7  |
| 5130 9.5 185550.0 -1654.2  | 5220 7.1 190705.8 -1620.6  | 5310 9.0 191819.3 -1611.2  | 5400 8.7 193227.7 -1636.4  |
| 5131 9.8 185611.7 -1620.8  | 5221 9.4 190716.9 -1629.5  | 5311 9.1 191838.0 -1635.3  | 5401 8.7 193230.3 -1642.7  |
| 5132 9.5 185612.8 -1634.3  | 5222 9.6 190717.0 -1613.0  | 5312 9.2 191840.0 -1629.1  | 5402 9.3 193252.2 -1646.8  |
| 5133 9.5 185618.1 -1635.8  | 5223 8.9 190728.4 -1631.5  | 5313 9.4 191857.0 -1637.8  | 5403 9.7 193300.9 -1639.8  |
| 5134 9.5 185625.5 -1652.4  | 5224 8.8 190730.5 -1632.9  | 5314 9.0 191857.1 -1603.6  | 5404 9.1 193304.8 -1606.7  |
| 5135 9.2 185646.0 -1654.7  | 5225 8.9 190735.9 -1652.3  | 5315 9.6 191859.1 -1604.0  | 5405 9.3 193306.0 -1629.5  |
| 5136 9.1 185652.1 -1631.7  | 5226 9.8 190737.9 -1630.8  | 5316 8.9 191903.5 -1631.1  | 5406 9.4 193315.7 -1626.4  |
| 5137 10.1 185656.6 -1619.7 | 5227 9.9 190745.4 -1606.8  | 5317 9.1 191910.3 -1618.2  | 5407 9.2 193325.2 -1659.2  |
| 5138 9.6 185701.6 -1653.5  | 5228 9.8 190746.0 -1620.4  | 5318 8.0 191916.0 -1644.6  | 5408 9.5 193328.2 -1657.0  |
| 5139 8.1 185715.0 -1646.6  | 5229 9.4 190749.0 -1626.0  | 5319 9.4 191940.6 -1619.1  | 5409 10.1 193329.3 -1608.0 |
| 5140 9.7 185725.1 -1617.0  | 5230 9.3 190754.5 -1638.6  | 5320 9.0 191954.0 -1630.5  | 5410 9.8 193347.2 -1631.6  |
| 5141 9.4 185727.0 -1602.2  | 5231 8.8 190757.4 -1633.9  | 5321 9.5 191954.9 -1600.7  | 5411 9.5 193352.7 -1653.7  |
| 5142 9.4 185727.7 -1646.8  | 5232 7.8 190758.7 -1649.2  | 5322 9.9 192005.8 -1655.9  | 5412 9.0 193409.8 -1640.4  |
| 5143 9.4 185745.7 -1630.9  | 5233 9.7 190803.0 -1642.7  | 5323 9.9 192012.5 -1602.5  | 5413 5.0 193413.7 -1627.8  |
| 5144 9.5 185750.9 -1658.9  | 5234 9.3 190804.0 -1652.5  | 5324 9.0 192028.5 -1625.4  | 5414 9.4 193425.7 -1720.5  |
| 5145 9.5 185755.6 -1614.3  | 5235 9.4 190814.1 -1606.6  | 5325 8.5 192031.0 -1648.4  | 5415 9.2 193427.2 -1733.4  |
| 5146 9.5 185756.4 -1605.4  | 5236 8.7 190814.4 -1638.4  | 5326 9.4 192032.3 -1639.2  | 5416 9.2 193428.4 -1635.6  |
| 5147 9.1 185758.9 -1605.4  | 5237 9.3 190816.4 -1622.4  | 5327 9.2 192035.6 -1612.7  | 5417 9.3 193431.0 -1609.3  |
| 5148 8.9 185802.4 -1658.7  | 5238 8.3 190821.1 -1631.2  | 5328 9.3 192042.6 -1615.3  | 5418 9.2 193433.1 -1621.2  |
| 5149 9.1 185806.1 -1601.0  | 5239 10.1 190823.6 -1647.7 | 5329 9.1 192057.1 -1642.9  | 5419 9.1 193436.0 -1646.8  |
| 5150 9.5 185819.9 -1611.0  | 5240 8.8 190824.4 -1641.2  | 5330 9.3 192102.3 -1610.6  | 5420 8.3 193442.9 -1621.0  |
| 5151 9.5 185820.1 -1633.0  | 5241 9.2 190825.7 -1650.6  | 5331 9.5 192113.5 -1653.0  | 5421 9.3 193448.3 -1653.1  |
| 5152 9.5 185827.7 -1643.9  | 5242 9.0 190828.5 -1651.6  | 5332 9.4 192122.6 -1627.0  | 5422 9.4 193449.7 -1641.1  |
| 5153 6.2 185831.7 -1626.8  | 5243 9.3 190829.2 -1625.9  | 5333 7.5 192145.2 -1616.3  | 5423 8.4 193454.3 -1618.7  |
| 5154 9.8 185835.7 -1605.0  | 5244 9.3 190836.4 -1627.7  | 5334 9.5 192157.6 -1637.5  | 5424 9.4 193522.1 -1642.1  |
| 5155 9.4 185849.0 -1621.5  | 5245 9.1 190841.5 -1613.1  | 5335 9.1 192158.6 -1627.0  | 5425 9.6 193559.2 -1613.1  |
| 5156 9.5 185854.5 -1616.5  | 5246 9.4 190851.9 -1642.0  | 5336 9.1 192211.5 -1652.3  | 5426 9.8 193617.8 -1628.2  |
| 5157 8.2 185854.5 -1608.0  | 5247 8.4 190852.7 -1617.9  | 5337 7.5 192227.8 -1628.0  | 5427 9.8 193625.7 -1635.4  |
| 5158 9.2 185929.3 -1628.4  | 5248 9.6 190903.1 -1628.1  | 5338 9.5 192230.4 -1604.4  | 5428 9.4 193717.9 -1621.1  |
| 5159 9.1 185937.4 -1629.0  | 5249 7.4 190905.2 -1619.5  | 5339 9.5 192237.0 -1658.9  | 5429 9.3 193728.1 -1609.2  |
| 5160 9.5 185941.0 -1617.0  | 5250 9.8 190907.5 -1648.3  | 5340 8.0 192257.5 -1642.1  | 5430 9.7 193746.3 -1612.3  |



|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|-----------|---------|------|-----|----------|---------|
| 5431 | 9.7 | 193802.1 | -1622.5 | 5521 | 9.3 | 200203.1 | -1613.8 | 5611 | 9.5 | 202110.6  | -1633.7 | 5701 | 9.8 | 203955.5 | -1611.7 |
| 5432 | 9.8 | 193813.2 | -1643.3 | 5522 | 9.9 | 200241.2 | -1644.5 | 5612 | 9.5 | 202113.1  | -1634.7 | 5702 | 7.3 | 203958.3 | -1652.4 |
| 5433 | 8.2 | 193815.7 | -1633.5 | 5523 | 9.3 | 200256.5 | -1610.5 | 5613 | 9.1 | 202156.5  | -1642.8 | 5703 | 10. | 204027.2 | -1637.4 |
| 5434 | 9.0 | 193834.9 | -1616.4 | 5524 | 9.4 | 200312.3 | -1659.0 | 5614 | 9.8 | 202212.0  | -1647.5 | 5704 | 9.8 | 204058.4 | -1638.1 |
| 5435 | 9.3 | 193900.5 | -1615.7 | 5525 | 9.0 | 200314.6 | -1617.4 | 5615 | 9.4 | 202215.6  | -1644.8 | 5705 | 9.8 | 204101.5 | -1606.4 |
| 5436 | 9.3 | 193908.9 | -1621.7 | 5526 | 9.5 | 200324.6 | -1616.7 | 5616 | 9.8 | 202233.0  | -1615.3 | 5706 | 9.5 | 204113.4 | -1629.4 |
| 5437 | 9.8 | 193911.2 | -1649.2 | 5527 | 9.5 | 200359.4 | -1640.4 | 5617 | 7.0 | 202236.0  | -1615.1 | 5707 | 9.6 | 204141.3 | -1644.1 |
| 5438 | 9.5 | 193910.0 | -1614.9 | 5528 | 9.8 | 200407.2 | -1611.3 | 5618 | 9.2 | 202241.8  | -1604.5 | 5708 | 9.7 | 204153.0 | -1608.4 |
| 5439 | 8.9 | 193937.1 | -1651.2 | 5529 | 9.3 | 200421.5 | -1606.5 | 5619 | 9.5 | 202245.7  | -1658.2 | 5709 | 7.5 | 204228.5 | -1602.8 |
| 5440 | 8.5 | 194016.8 | -1631.1 | 5530 | 9.6 | 200449.9 | -1634.6 | 5620 | 9.3 | 202251.0  | -1621.1 | 5710 | 9.7 | 204245.6 | -1625.4 |
|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
| 5441 | 8.8 | 194018.0 | -1611.1 | 5531 | 9.7 | 200455.5 | -1650.0 | 5621 | 9.0 | 202257.8  | -1655.7 | 5711 | 8.2 | 204256.9 | -1656.8 |
| 5442 | 8.8 | 194050.9 | -1620.4 | 5532 | 9.5 | 200508.6 | -1621.0 | 5622 | 9.8 | 202310.0  | -1616.4 | 5712 | 9.5 | 204320.6 | -1616.4 |
| 5443 | 9.4 | 194141.0 | -1647.2 | 5533 | 9.1 | 200532.8 | -1641.3 | 5623 | 9.8 | 202317.6  | -1629.3 | 5713 | 9.8 | 204325.5 | -1605.5 |
| 5444 | 9.4 | 194159.2 | -1600.9 | 5534 | 9.5 | 200557.7 | -1619.6 | 5624 | 9.5 | 202322.0  | -1659.9 | 5714 | 9.8 | 204405.2 | -1612.2 |
| 5445 | 9.6 | 194224.1 | -1601.6 | 5535 | 8.8 | 200600.0 | -1626.5 | 5625 | 10. | 202331.7  | -1610.6 | 5715 | 9.7 | 204406.9 | -1632.3 |
| 5446 | 9.8 | 194233.7 | -1621.1 | 5536 | 8.5 | 200628.5 | -1602.4 | 5626 | 9.5 | 202332.0  | -1658.4 | 5716 | 9.4 | 204430.4 | -1621.4 |
| 5447 | 8.5 | 194314.7 | -1613.9 | 5537 | 9.3 | 200634.4 | -1638.6 | 5627 | 9.2 | 202400.6  | -1638.0 | 5717 | 9.5 | 204432.5 | -1659.2 |
| 5448 | 9.8 | 194315.0 | -1654.5 | 5538 | 9.8 | 200648.2 | -1612.5 | 5628 | 8.6 | 202404.1  | -1637.1 | 5718 | 8.0 | 204440.8 | -1642.6 |
| 5449 | 9.3 | 194322.8 | -1641.5 | 5539 | 9.0 | 200651.1 | -1600.2 | 5629 | 9.5 | 202421.5  | -1629.0 | 5719 | 9.0 | 204453.5 | -1625.0 |
| 5450 | 9.3 | 194343.0 | -1652.1 | 5540 | 9.0 | 200652.9 | -1633.8 | 5630 | 10. | 202443.2  | -1633.6 | 5720 | 9.8 | 204520.9 | -1635.0 |
|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
| 5451 | 9.2 | 194411.0 | -1642.3 | 5541 | 9.8 | 200708.2 | -1606.8 | 5631 | 9.8 | 202450.7  | -1604.2 | 5721 | 9.2 | 204621.0 | -1602.7 |
| 5452 | 9.8 | 194501.6 | -1633.7 | 5542 | 9.6 | 200709.4 | -1659.5 | 5632 | 8.6 | 202453.6  | -1630.7 | 5722 | 9.2 | 204636.8 | -1605.1 |
| 5453 | 9.8 | 194521.6 | -1633.3 | 5543 | 8.0 | 200718.3 | -1617.4 | 5633 | 9.7 | 202457.9  | -1658.8 | 5723 | 9.5 | 204646.9 | -1635.6 |
| 5454 | 7.8 | 194626.3 | -1617.1 | 5544 | 9.3 | 200737.1 | -1606.8 | 5634 | 9.0 | 202512.8  | -1605.7 | 5724 | 9.1 | 204700.3 | -1651.4 |
| 5455 | 9.2 | 194648.3 | -1615.2 | 5545 | 7.3 | 200748.9 | -1643.8 | 5635 | 8.7 | 202608.8  | -1611.7 | 5725 | 9.1 | 204701.7 | -1640.5 |
| 5456 | 9.5 | 194806.1 | -1604.5 | 5546 | 8.6 | 200814.8 | -1647.3 | 5636 | 10. | 202616.1  | -1632.1 | 5726 | 9.5 | 204706.3 | -1608.1 |
| 5457 | 8.4 | 194806.4 | -1645.4 | 5547 | 9.4 | 200849.6 | -1604.8 | 5637 | 9.2 | 202635.3  | -1603.5 | 5727 | 9.4 | 204706.4 | -1652.7 |
| 5458 | 7.3 | 194819.7 | -1605.0 | 5548 | 9.1 | 200909.7 | -1637.8 | 5638 | 8.0 | 202640.6  | -1617.2 | 5728 | 9.1 | 204716.9 | -1635.6 |
| 5459 | 9.7 | 194826.5 | -1616.4 | 5549 | 9.1 | 200912.9 | -1625.0 | 5639 | 9.5 | 202647.0  | -1648.0 | 5729 | 9.8 | 204718.0 | -1608.5 |
| 5460 | 9.2 | 194828.5 | -1657.5 | 5550 | 7.0 | 200915.0 | -1615.9 | 5640 | 9.3 | 202652.9  | -1652.2 | 5730 | 9.5 | 204735.2 | -1639.4 |
|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
| 5461 | 8.2 | 194830.1 | -1659.7 | 5551 | 9.3 | 200917.7 | -1613.2 | 5641 | 9.8 | 202735.2  | -1651.5 | 5731 | 10. | 204808.8 | -1656.3 |
| 5462 | 9.8 | 194836.0 | -1622.5 | 5552 | 8.9 | 200931.0 | -1616.4 | 5642 | 9.5 | 202744.1  | -1622.9 | 5732 | 9.3 | 204815.1 | -1600.8 |
| 5463 | 9.1 | 194852.4 | -1638.5 | 5553 | 9.5 | 200944.1 | -1627.3 | 5643 | 9.8 | 202753.2  | -1658.5 | 5733 | 9.1 | 204822.6 | -1601.7 |
| 5464 | 9.2 | 194907.8 | -1647.2 | 5554 | 9.2 | 200944.7 | -1642.1 | 5644 | 9.8 | 202758.2  | -1639.8 | 5734 | 8.0 | 204839.5 | -1624.2 |
| 5465 | 9.8 | 194914.9 | -1648.3 | 5555 | 9.5 | 200952.2 | -1613.9 | 5645 | 9.2 | 202809.7  | -1624.9 | 5735 | 9.5 | 204844.8 | -1656.8 |
| 5466 | 9.5 | 194915.2 | -1652.5 | 5556 | 9.8 | 201007.5 | -1620.2 | 5646 | 9.0 | 202815.3  | -1602.2 | 5736 | 9.8 | 204857.3 | -1612.1 |
| 5467 | 9.5 | 194939.0 | -1615.1 | 5557 | 9.2 | 201011.9 | -1631.4 | 5647 | 9.8 | 202828.7  | -1638.5 | 5737 | 9.6 | 204902.6 | -1605.7 |
| 5468 | 9.1 | 194955.3 | -1606.4 | 5558 | 8.0 | 201045.1 | -1617.9 | 5648 | 10. | 202841.1  | -1624.6 | 5738 | 8.9 | 204903.8 | -1616.1 |
| 5469 | 7.3 | 194957.1 | -1620.9 | 5559 | 9.3 | 201047.7 | -1616.0 | 5649 | 8.8 | 202911.2  | -1631.6 | 5739 | 8.5 | 204903.9 | -1644.0 |
| 5470 | 8.9 | 195005.0 | -1634.0 | 5560 | 9.3 | 201103.7 | -1657.2 | 5650 | 9.5 | 202915.0  | -1610.3 | 5740 | 9.8 | 204923.2 | -1613.6 |
|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
| 5471 | 8.8 | 195018.2 | -1608.0 | 5561 | 9.5 | 201123.1 | -1602.7 | 5651 | 9.6 | 202942.6  | -1659.9 | 5741 | 5.8 | 204933.6 | -1634.7 |
| 5472 | 9.5 | 195051.3 | -1655.3 | 5562 | 9.5 | 201137.2 | -1614.2 | 5652 | 9.8 | 202954.8  | -1626.6 | 5742 | 9.3 | 204951.6 | -1631.5 |
| 5473 | 8.7 | 195057.6 | -1625.4 | 5563 | 9.5 | 201139.4 | -1639.9 | 5653 | 9.6 | 203013.0  | -1641.5 | 5743 | 9.8 | 204954.5 | -1649.5 |
| 5474 | 9.5 | 195120.5 | -1656.5 | 5564 | 9.6 | 201158.6 | -1600.2 | 5654 | 9.5 | 203020.0  | -1656.9 | 5744 | 8.8 | 204956.8 | -1659.5 |
| 5475 | 10. | 195125.4 | -1606.5 | 5565 | 8.6 | 201201.1 | -1602.9 | 5655 | 9.0 | 203035.8  | -1627.9 | 5745 | 9.7 | 205007.2 | -1617.5 |
| 5476 | 9.8 | 195134.9 | -1605.2 | 5566 | 9.1 | 201232.3 | -1630.3 | 5656 | 9.6 | 203037.2  | -1631.2 | 5746 | 9.5 | 205021.6 | -1602.1 |
| 5477 | 8.8 | 195141.0 | -1605.6 | 5567 | 9.8 | 201236.5 | -1620.8 | 5657 | 9.2 | 203043.7  | -1620.0 | 5747 | 9.3 | 205034.1 | -1632.5 |
| 5478 | 7.1 | 195215.8 | -1616.4 | 5568 | 9.4 | 201243.3 | -1622.5 | 5658 | 9.3 | 203056.1  | -1657.4 | 5748 | 9.8 | 205034.8 | -1655.9 |
| 5479 | 8.8 | 195221.9 | -1616.5 | 5569 | 9.7 | 201305.8 | -1630.9 | 5659 | 9.5 | 203101.3  | -1658.2 | 5749 | 9.1 | 205057.5 | -1658.2 |
| 5480 | 8.7 | 195234.3 | -1606.5 | 5570 | 8.7 | 201330.0 | -1644.2 | 5660 | 9.7 | 203116.6  | -1651.2 | 5750 | 9.8 | 205059.6 | -1644.7 |
|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
| 5481 | 8.7 | 195256.6 | -1657.7 | 5571 | 9.5 | 201331.9 | -1612.5 | 5661 | 9.7 | 203133.2  | -1644.8 | 5751 | 9.4 | 205044.0 | -1650.1 |
| 5482 | 10. | 195404.8 | -1649.9 | 5572 | 9.2 | 201341.1 | -1605.1 | 5662 | 9.4 | 203147.1  | -1649.2 | 5752 | 10. | 205047.1 | -1631.7 |
| 5483 | 9.3 | 195407.4 | -1654.1 | 5573 | 9.4 | 201346.0 | -1634.9 | 5663 | 6.0 | 203223.2  | -1638.1 | 5753 | 8.5 | 205049.9 | -1616.1 |
| 5484 | 9.7 | 195416.1 | -1621.7 | 5574 | 9.8 | 201355.1 | -1623.5 | 5664 | 9.1 | 203225.4  | -1606.1 | 5754 | 8.7 | 205050.9 | -1610.9 |
| 5485 | 8.0 | 195419.3 | -1616.1 | 5575 | 7.2 | 201401.6 | -1604.5 | 5665 | 9.6 | 203247.2  | -1648.3 | 5755 | 10. | 205055.0 | -1645.0 |
| 5486 | 9.4 | 195432.4 | -1626.2 | 5576 | 9.2 | 201403.5 | -1634.0 | 5666 | 9.8 | 203249.3  | -1655.1 | 5756 | 10. | 205055.6 | -1629.4 |
| 5487 | 8.7 | 195433.4 | -1627.9 | 5577 | 7.9 | 201410.2 | -1617.2 | 5667 | 9.8 | 203257.7  | -1653.2 | 5757 | 9.8 | 205057.4 | -1619.2 |
| 5488 | 9.5 | 195533.8 | -1631.7 | 5578 | 10. | 201413.1 | -1613.6 | 5668 | 9.4 | 203326.2  | -1632.3 | 5758 | 9.1 | 205121.6 | -1628.4 |
| 5489 | 9.2 | 195549.0 | -1651.6 | 5579 | 9.9 | 201414.1 | -1614.1 | 5669 | 9.5 | 203350.9  | -1600.7 | 5759 | 8.5 | 205218.4 | -1618.7 |
| 5490 | 8.8 | 195606.4 | -1619.3 | 5580 | 9.4 | 201414.8 | -1628.8 | 5670 | 9.3 | 203412.6  | -1614.1 | 5760 | 9.8 | 205219.6 | -1629.0 |
|      |     |          |         |      |     |          |         |      |     |           |         |      |     |          |         |
| 5491 | 8.8 | 195607.9 | -1606.4 | 5581 | 8.3 | 201420.1 | -1658.7 | 5671 | 9.4 | 203428.3  | -1635.0 | 5761 | 9.2 | 205221.3 | -1655.4 |
| 5492 | 8.6 | 195608.4 | -1604.4 | 5582 | 9.1 | 201426.4 | -1605.5 | 5672 | 8.0 | 203430.4  | -1610.8 | 5762 | 9.4 | 205229.6 | -1631.4 |
| 5493 | 9.8 | 195615.5 | -1607.9 | 5583 | 9.5 | 201432.2 | -1605.7 | 5673 | 9.3 | 203430.8  | -1609.5 | 5763 | 10. | 205234.8 | -1658.1 |
| 5494 | 9.5 | 195615.5 | -1652.9 | 5584 | 9.5 | 201439.1 | -1600.1 | 5674 | 9.1 | 203432.1  | -1652.0 | 5764 | 8.3 | 205240.7 | -1623.8 |
| 5495 | 8.7 | 195627.2 | -1626.2 | 5585 | 9.8 | 201455.4 | -1649.8 | 5675 | 8.2 | 203436.8  | -1625.2 | 5765 | 9.4 | 205245.6 | -1632.3 |
| 5496 | 9.1 | 195637.0 | -1642.7 | 5586 | 9.4 | 201456.3 | -1637.3 | 5676 | 8.6 | 203455.5  | -1607.9 | 5766 | 10. | 205257.8 | -1620.5 |
| 5497 | 9.2 | 195649.7 | -1618.6 | 5587 | 8.0 | 201500.8 | -1614.9 | 5677 | 10. | 203500.1. |         |      |     |          |         |



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 5791 | 9.3 | 205830.7 | -1639.0 | 5881 | 8.5 | 212425.5 | -1620.8 | 5971 | 9.0 | 214741.4 | -1611.5 | 6061 | 9.3 | 221113.4 | -1612.0 |
| 5792 | 8.2 | 205844.7 | -1609.2 | 5882 | 10. | 212425.6 | -1600.4 | 5972 | 8.9 | 214748.9 | -1620.3 | 6062 | 9.7 | 221133.2 | -1610.7 |
| 5793 | 9.6 | 205846.2 | -1637.3 | 5883 | 10. | 212455.3 | -1607.1 | 5973 | 9.4 | 214832.8 | -1646.0 | 6063 | 8.8 | 221150.2 | -1615.3 |
| 5794 | 8.9 | 205849.8 | -1628.4 | 5884 | 9.0 | 212528.0 | -1641.5 | 5974 | 9.0 | 214836.8 | -1632.6 | 6064 | 10. | 221212.1 | -1637.5 |
| 5795 | 9.8 | 205853.0 | -1610.9 | 5885 | 7.2 | 212538.9 | -1650.1 | 5975 | 9.5 | 214846.8 | -1641.4 | 6065 | 9.0 | 221219.0 | -1600.9 |
| 5796 | 9.8 | 205853.8 | -1636.0 | 5886 | 9.5 | 212554.0 | -1633.0 | 5976 | 9.5 | 214847.6 | -1629.5 | 6066 | 9.8 | 221257.2 | -1638.4 |
| 5797 | 7.3 | 205904.3 | -1632.9 | 5887 | 9.5 | 212601.5 | -1632.4 | 5977 | 9.4 | 214849.5 | -1651.8 | 6067 | 9.5 | 221351.2 | -1611.2 |
| 5798 | 7.3 | 205908.2 | -1619.4 | 5888 | 10. | 212646.6 | -1657.0 | 5978 | 8.7 | 214853.9 | -1617.7 | 6068 | 9.5 | 221357.6 | -1645.0 |
| 5799 | 9.8 | 205923.2 | -1648.0 | 5889 | 8.7 | 212712.0 | -1654.8 | 5979 | 9.0 | 214912.3 | -1638.4 | 6069 | 8.2 | 221433.6 | -1611.1 |
| 5800 | 7.7 | 205954.1 | -1612.4 | 5890 | 9.0 | 212717.9 | -1607.2 | 5980 | 9.9 | 214915.2 | -1657.2 | 6070 | 8.5 | 221440.7 | -1634.6 |
| 5801 | 9.5 | 210013.7 | -1603.1 | 5891 | 9.5 | 212720.6 | -1636.7 | 5981 | 9.4 | 214919.7 | -1647.4 | 6071 | 9.0 | 221444.7 | -1606.8 |
| 5802 | 9.5 | 210015.7 | -1604.5 | 5892 | 8.7 | 212753.0 | -1620.2 | 5982 | 8.8 | 214925.3 | -1655.5 | 6072 | 9.5 | 221502.0 | -1609.4 |
| 5803 | 9.4 | 210044.7 | -1655.9 | 5893 | 9.8 | 212814.2 | -1605.4 | 5983 | 9.4 | 215005.9 | -1643.5 | 6073 | 9.4 | 221526.7 | -1647.4 |
| 5804 | 8.5 | 210105.8 | -1644.5 | 5894 | 9.8 | 212828.0 | -1619.0 | 5984 | 9.8 | 215023.9 | -1625.7 | 6074 | 9.8 | 221527.9 | -1603.8 |
| 5805 | 10. | 210108.0 | -1639.7 | 5895 | 8.6 | 212858.7 | -1602.4 | 5985 | 9.8 | 215038.5 | -1636.4 | 6075 | 8.3 | 221544.2 | -1642.0 |
| 5806 | 9.9 | 210109.3 | -1618.8 | 5896 | 9.5 | 212903.5 | -1622.8 | 5986 | 10. | 215103.8 | -1643.3 | 6076 | 8.3 | 221548.7 | -1618.7 |
| 5807 | 10. | 210115.3 | -1619.1 | 5897 | 10. | 212909.0 | -1619.5 | 5987 | 8.9 | 215120.2 | -1620.3 | 6077 | 8.8 | 221559.3 | -1609.2 |
| 5808 | 9.4 | 210125.8 | -1615.3 | 5898 | 9.5 | 212925.6 | -1657.0 | 5988 | 9.3 | 215131.7 | -1658.5 | 6078 | 9.9 | 221641.4 | -1612.1 |
| 5809 | 9.5 | 210136.3 | -1642.3 | 5899 | 8.8 | 212928.3 | -1657.1 | 5989 | 9.6 | 215153.8 | -1612.6 | 6079 | 9.9 | 221707.8 | -1614.5 |
| 5810 | 7.2 | 210205.4 | -1617.2 | 5900 | 9.9 | 212940.5 | -1633.6 | 5990 | 10. | 215204.9 | -1629.2 | 6080 | 9.5 | 221726.2 | -1655.4 |
| 5811 | 9.0 | 210232.2 | -1646.0 | 5901 | 8.5 | 212948.6 | -1653.9 | 5991 | 9.4 | 215222.8 | -1653.6 | 6081 | 7.7 | 221743.2 | -1620.0 |
| 5812 | 9.8 | 210237.1 | -1642.5 | 5902 | 9.8 | 213027.9 | -1653.9 | 5992 | 9.5 | 215229.9 | -1633.1 | 6082 | 7.8 | 221756.8 | -1605.3 |
| 5813 | 9.9 | 210238.2 | -1638.3 | 5903 | 8.3 | 213035.7 | -1614.8 | 5993 | 9.3 | 215235.6 | -1631.8 | 6083 | 9.6 | 221827.3 | -1636.4 |
| 5814 | 9.0 | 210307.3 | -1604.9 | 5904 | 10. | 213058.0 | -1653.9 | 5994 | 9.1 | 215321.4 | -1654.3 | 6084 | 10. | 221907.5 | -1638.7 |
| 5815 | 9.0 | 210309.2 | -1658.9 | 5905 | 8.3 | 213101.8 | -1605.8 | 5995 | 9.1 | 215325.5 | -1608.6 | 6085 | 9.1 | 221953.6 | -1632.0 |
| 5816 | 8.5 | 210318.8 | -1637.0 | 5906 | 9.5 | 213113.7 | -1645.5 | 5996 | 9.8 | 215327.4 | -1656.8 | 6086 | 9.6 | 222004.6 | -1631.9 |
| 5817 | 9.5 | 210357.1 | -1618.5 | 5907 | 9.9 | 213122.9 | -1621.4 | 5997 | 9.2 | 215330.3 | -1616.1 | 6087 | 9.6 | 222021.2 | -1647.1 |
| 5818 | 9.7 | 210406.9 | -1644.4 | 5908 | 10. | 213147.1 | -1659.1 | 5998 | 7.0 | 215338.3 | -1618.2 | 6088 | 9.0 | 222048.6 | -1624.3 |
| 5819 | 9.8 | 210426.9 | -1607.2 | 5909 | 9.2 | 213149.3 | -1639.6 | 5999 | 9.8 | 215343.9 | -1632.3 | 6089 | 9.5 | 222052.6 | -1615.5 |
| 5820 | 10. | 210427.9 | -1601.4 | 5910 | 9.5 | 213152.9 | -1608.5 | 6000 | 9.6 | 215353.5 | -1610.4 | 6090 | 8.5 | 222053.2 | -1655.2 |
| 5821 | 8.5 | 210437.4 | -1626.5 | 5911 | 9.3 | 213214.3 | -1610.5 | 6001 | 8.5 | 215359.7 | -1605.3 | 6091 | 9.8 | 222059.7 | -1635.7 |
| 5822 | 9.8 | 210624.3 | -1603.2 | 5912 | 9.6 | 213226.2 | -1645.3 | 6002 | 9.5 | 215409.6 | -1627.1 | 6092 | 8.3 | 222104.8 | -1653.4 |
| 5823 | 9.5 | 210655.2 | -1623.5 | 5913 | 9.2 | 213229.3 | -1606.7 | 6003 | 8.8 | 215432.0 | -1652.8 | 6093 | 8.8 | 222111.8 | -1641.0 |
| 5824 | 8.3 | 210708.1 | -1620.5 | 5914 | 9.3 | 213245.8 | -1603.7 | 6004 | 9.2 | 215443.5 | -1627.1 | 6094 | 9.4 | 222133.3 | -1618.1 |
| 5825 | 9.5 | 210719.8 | -1658.3 | 5915 | 10. | 213258.8 | -1616.7 | 6005 | 9.0 | 215526.4 | -1652.2 | 6095 | 9.4 | 222188.9 | -1605.0 |
| 5826 | 8.8 | 210723.0 | -1634.7 | 5916 | 9.8 | 213311.7 | -1646.1 | 6006 | 9.8 | 215533.6 | -1612.4 | 6096 | 9.2 | 222250.6 | -1656.4 |
| 5827 | 8.3 | 210731.4 | -1641.3 | 5917 | 9.4 | 213332.7 | -1616.6 | 6007 | 9.5 | 215534.3 | -1638.8 | 6097 | 9.5 | 222338.0 | -1607.1 |
| 5828 | 9.6 | 210818.4 | -1627.7 | 5918 | 9.8 | 213343.8 | -1633.7 | 6008 | 9.9 | 215538.2 | -1612.9 | 6098 | 9.4 | 222342.0 | -1609.5 |
| 5829 | 10. | 210831.5 | -1649.9 | 5919 | 10. | 213359.3 | -1625.7 | 6009 | 8.5 | 215551.0 | -1636.5 | 6099 | 8.8 | 222344.0 | -1610.4 |
| 5830 | 9.8 | 210852.3 | -1651.2 | 5920 | 9.7 | 213404.5 | -1611.8 | 6010 | 10. | 215613.0 | -1602.0 | 6100 | 9.8 | 222440.4 | -1624.4 |
| 5831 | 9.3 | 210911.4 | -1634.4 | 5921 | 9.5 | 213412.9 | -1606.5 | 6011 | 9.6 | 215613.0 | -1600.4 | 6101 | 9.1 | 222441.9 | -1628.3 |
| 5832 | 9.4 | 210942.5 | -1644.2 | 5922 | 9.8 | 213416.0 | -1622.6 | 6012 | 8.0 | 215618.5 | -1651.5 | 6102 | 10. | 222448.0 | -1656.5 |
| 5833 | 7.8 | 210948.4 | -1629.8 | 5923 | 9.7 | 213417.5 | -1658.7 | 6013 | 9.3 | 215654.6 | -1629.8 | 6103 | 9.3 | 222542.3 | -1621.7 |
| 5834 | 9.5 | 211029.3 | -1647.6 | 5924 | 8.0 | 213435.4 | -1625.0 | 6014 | 9.8 | 215659.1 | -1614.4 | 6104 | 9.7 | 222556.9 | -1659.4 |
| 5835 | 9.6 | 211038.6 | -1605.5 | 5925 | 10. | 213452.7 | -1629.8 | 6015 | 9.5 | 215717.0 | -1616.5 | 6105 | 9.3 | 222644.4 | -1633.4 |
| 5836 | 9.5 | 211039.7 | -1650.7 | 5926 | 9.7 | 213502.9 | -1617.1 | 6016 | 9.8 | 215738.7 | -1601.7 | 6106 | 9.8 | 222649.3 | -1613.7 |
| 5837 | 9.3 | 211043.7 | -1604.3 | 5927 | 10. | 213518.8 | -1650.4 | 6017 | 9.5 | 215739.3 | -1633.0 | 6107 | 9.1 | 222656.9 | -1633.2 |
| 5838 | 9.8 | 211050.1 | -1655.6 | 5928 | 10. | 213545.6 | -1637.3 | 6018 | 9.5 | 215755.2 | -1619.8 | 6108 | 10. | 222733.1 | -1659.9 |
| 5839 | 9.8 | 211055.9 | -1637.3 | 5929 | 10. | 213601.0 | -1629.4 | 6019 | 8.3 | 215805.6 | -1641.9 | 6109 | 9.8 | 222744.0 | -1658.7 |
| 5840 | 6.8 | 211111.4 | -1647.1 | 5930 | 9.5 | 213607.5 | -1648.0 | 6020 | 9.8 | 215850.3 | -1652.0 | 6110 | 9.2 | 222801.0 | -1625.8 |
| 5841 | 9.5 | 211120.0 | -1633.0 | 5931 | 10. | 213619.6 | -1645.9 | 6021 | 9.4 | 215852.6 | -1620.9 | 6111 | 9.4 | 222811.7 | -1616.3 |
| 5842 | 9.8 | 211132.2 | -1645.4 | 5932 | 9.1 | 213620.4 | -1642.8 | 6022 | 9.6 | 215855.3 | -1656.9 | 6112 | 10. | 222845.2 | -1610.3 |
| 5843 | 9.1 | 211146.6 | -1601.3 | 5933 | 8.3 | 213620.9 | -1638.1 | 6023 | 9.8 | 215903.6 | -1638.3 | 6113 | 9.2 | 222906.0 | -1627.5 |
| 5844 | 9.0 | 211208.2 | -1628.9 | 5934 | 9.8 | 213628.8 | -1646.8 | 6024 | 10. | 215912.1 | -1646.0 | 6114 | 9.0 | 222911.0 | -1628.2 |
| 5845 | 9.5 | 211219.1 | -1658.2 | 5935 | 9.9 | 213631.8 | -1646.4 | 6025 | 10. | 215914.8 | -1606.2 | 6115 | 9.4 | 222922.9 | -1606.4 |
| 5846 | 10. | 211222.7 | -1649.9 | 5936 | 8.8 | 213648.0 | -1601.8 | 6026 | 9.7 | 215945.3 | -1657.3 | 6116 | 9.5 | 222938.1 | -1653.0 |
| 5847 | 10. | 211318.5 | -1659.4 | 5937 | 9.9 | 213659.8 | -1654.0 | 6027 | 8.5 | 215958.7 | -1642.4 | 6117 | 9.8 | 222961.4 | -1604.0 |
| 5848 | 9.9 | 211320.0 | -1651.0 | 5938 | 8.9 | 213707.5 | -1615.6 | 6028 | 10. | 220002.8 | -1618.2 | 6118 | 9.0 | 222963.2 | -1655.8 |
| 5849 | 8.3 | 211345.5 | -1635.0 | 5939 | 9.9 | 213742.5 | -1625.2 | 6029 | 9.5 | 220044.1 | -1659.1 | 6119 | 9.5 | 222968.4 | -1606.6 |
| 5850 | 7.5 | 211346.7 | -1652.6 | 5940 | 9.3 | 213747.5 | -1602.9 | 6030 | 9.1 | 220052.7 | -1627.8 | 6120 | 9.3 | 223010.5 | -1635.2 |
| 5851 | 9.4 | 211353.0 | -1619.4 | 5941 | 9.8 | 213810.1 | -1636.8 | 6031 | 9.9 | 220102.7 | -1608.3 | 6121 | 9.5 | 223122.8 | -1615.7 |
| 5852 | 9.0 | 211402.1 | -1619.6 | 5942 | 8.5 | 213820.0 | -1639.0 | 6032 | 9.6 | 220213.1 | -1657.0 | 6122 | 9.9 | 223129.6 | -1641.7 |
| 5853 | 9.3 | 211402.2 | -1639.9 | 5943 | 3.0 | 213902.2 | -1646.7 | 6033 | 8.9 | 220226.8 | -1629.0 | 6123 | 9.6 | 223154.6 | -1618.9 |
| 5854 | 9.4 | 211519.1 | -1619.6 | 5944 | 9.8 | 213903.4 | -1612.6 | 6034 | 8.5 | 220229.3 | -1638.9 | 6124 | 9.4 | 223156.6 | -1618.3 |
| 5855 | 9.4 | 211531.0 | -1601.3 | 5945 | 9.7 | 213937.6 | -1629.2 | 6035 | 10. | 220251.0 | -1644.5 | 6125 | 8.3 | 223222.2 | -1642.5 |
| 5856 | 7.9 | 211618.1 | -1611.1 | 5946 | 8.3 | 213955.2 | -1644.7 | 6036 | 9.8 | 220253.3 | -1644.5 | 6126 | 9.5 | 223223.5 | -1605.8 |
| 5857 | 9.5 | 211627.8 | -1615.0 | 5947 | 9.1 | 214053.5 | -1653.6 | 6037 | 9.0 | 220305.2 | -1655.2 | 6127 | 8.6 | 223225.2 | -1601.5 |
| 5858 | 9.4 | 211651.4 | -1608.2 | 5948 | 9.5 | 214100.3 | -1646.1 | 6038 | 10. | 220319.5 | -1650.9 | 6128 | 9.9 | 223231.1 | -1619.5 |
| 5859 | 9.0 | 211654.6 | -1636.1 | 5949 | 9.5 | 214110.5 | -1648.6 | 6039 | 9.1 | 220413.9 | -1611.9 | 6129 | 9.8 | 223248.9 | -1632.7 |
| 5860 | 9.3 | 211718.0 | -1651.3 | 5950 | 9.8 | 214152.6 | -1628.9 | 6040 | 9.0 | 220444.3 | -1601.1 | 6130 | 9.8 | 223316.1 | -1633.6 |
| 5861 | 9.2 | 211723.5 | -1606.6 | 5951 | 9.8 | 214223.5 | -1629.6 | 6041 | 9.5 | 220451.1 | -1621.7 | 6131 | 9.5 | 223326.6 | -1620.7 |
| 5862 | 9.8 | 211800.9 | -1650.3 | 5952 | 7.8 | 214227.0 | -1652.1 | 6042 | 9.2 | 220509.4 | -1628.0 | 6132 | 10. | 223336.2 | -1620.2 |
| 5863 | 9.4 | 211808.3 | -1606.2 | 5953 | 9.6 | 214232.1 | -1631.1 | 6043 | 9.1 | 220527.4 | -1619.9 |      |     |          |         |



|      |     |          |         |      |     |          |         |      |      |          |         |    |     |         |         |
|------|-----|----------|---------|------|-----|----------|---------|------|------|----------|---------|----|-----|---------|---------|
| 6151 | 9.8 | 225845.5 | -1605.4 | 6241 | 10. | 230621.1 | -1649.6 | 6331 | 10.  | 233238.4 | -1625.4 | 2  | 9.5 | 00020.9 | -1724.5 |
| 6152 | 7.2 | 223932.4 | -1654.3 | 6242 | 9.5 | 230652.7 | -1614.2 | 6332 | 8.2  | 233242.3 | -1615.0 | 3  | 9.4 | 00025.1 | -1754.1 |
| 6153 | 9.7 | 223940.4 | -1603.7 | 6243 | 9.9 | 230708.6 | -1659.6 | 6333 | 9.6  | 233329.5 | -1655.6 | 4  | 9.5 | 00032.8 | -1731.0 |
| 6154 | 9.7 | 224006.9 | -1607.1 | 6244 | 9.8 | 230740.2 | -1655.9 | 6334 | 10.  | 233331.4 | -1619.2 | 5  | 9.2 | 00050.9 | -1755.7 |
| 6155 | 9.0 | 224022.4 | -1629.9 | 6245 | 10. | 230749.3 | -1622.5 | 6335 | 9.5  | 233351.0 | -1617.8 | 6  | 9.8 | 00058.2 | -1709.9 |
| 6156 | 9.8 | 224057.0 | -1620.5 | 6246 | 9.0 | 230755.1 | -1638.9 | 6336 | 8.8  | 233404.3 | -1625.7 | 7  | 9.3 | 00154.5 | -1731.1 |
| 6157 | 9.7 | 224112.5 | -1633.2 | 6247 | 9.1 | 230825.7 | -1641.0 | 6337 | 9.5  | 233406.0 | -1646.2 | 8  | 9.2 | 00200.4 | -1712.8 |
| 6158 | 9.0 | 224125.4 | -1627.0 | 6248 | 10. | 230835.2 | -1636.6 | 6338 | 9.5  | 233416.7 | -1618.1 | 9  | 9.5 | 00251.3 | -1753.4 |
| 6159 | 9.9 | 224144.5 | -1640.0 | 6249 | 9.3 | 230835.2 | -1652.2 | 6339 | 9.5  | 233422.5 | -1649.3 | 10 | 8.9 | 00255.6 | -1735.4 |
| 6160 | 10. | 224242.0 | -1645.4 | 6250 | 8.3 | 230901.8 | -1621.4 | 6340 | 9.1  | 233426.5 | -1655.5 | 11 | 10. | 00358.1 | -1740.2 |
| 6161 | 9.0 | 224324.6 | -1615.1 | 6251 | 10. | 230902.7 | -1614.2 | 6341 | 8.1  | 233427.7 | -1616.0 | 12 | 9.8 | 00425.0 | -1742.3 |
| 6162 | 9.0 | 224342.6 | -1655.3 | 6252 | 9.3 | 230909.8 | -1619.8 | 6342 | 9.5  | 233435.9 | -1650.9 | 13 | 10. | 00428.7 | -1736.6 |
| 6163 | 9.8 | 224427.1 | -1612.9 | 6253 | 10. | 230937.3 | -1649.7 | 6343 | 9.5  | 233436.5 | -1615.3 | 14 | 8.7 | 00437.9 | -1737.1 |
| 6164 | 9.8 | 224429.4 | -1602.0 | 6254 | 6.5 | 230951.2 | -1657.5 | 6344 | 9.1  | 233445.0 | -1650.5 | 15 | 9.8 | 00459.2 | -1741.0 |
| 6165 | 8.8 | 224446.1 | -1648.0 | 6255 | 10. | 231007.3 | -1649.1 | 6345 | 5.3  | 233456.0 | -1615.0 | 16 | 9.8 | 00549.1 | -1758.2 |
| 6166 | 9.5 | 224452.7 | -1602.8 | 6256 | 10. | 231058.7 | -1605.7 | 6346 | 9.4  | 233512.6 | -1654.8 | 17 | 8.0 | 00550.8 | -1759.4 |
| 6167 | 9.0 | 224452.7 | -1604.6 | 6257 | 9.1 | 231148.3 | -1600.5 | 6347 | 9.4  | 233517.1 | -1615.0 | 18 | 9.3 | 00618.7 | -1730.9 |
| 6168 | 9.3 | 224459.2 | -1618.6 | 6258 | 9.6 | 231155.6 | -1645.5 | 6348 | 9.5  | 233544.6 | -1635.3 | 19 | 9.5 | 00642.5 | -1709.6 |
| 6169 | 9.4 | 224514.0 | -1612.1 | 6259 | 7.0 | 231203.9 | -1634.2 | 6349 | 9.5  | 233546.3 | -1651.4 | 20 | 8.5 | 00707.2 | -1728.7 |
| 6170 | 8.4 | 224558.6 | -1623.1 | 6260 | 9.8 | 231204.5 | -1612.5 | 6350 | 9.5  | 233547.2 | -1615.0 | 21 | 9.2 | 00719.1 | -1746.0 |
| 6171 | 9.0 | 224610.7 | -1637.2 | 6261 | 10. | 231223.2 | -1602.8 | 6351 | 10.  | 233606.6 | -1631.8 | 22 | 9.0 | 00721.6 | -1757.6 |
| 6172 | 8.9 | 224643.4 | -1609.3 | 6262 | 9.3 | 231242.0 | -1619.7 | 6352 | 30.0 | 233618.7 | -1605.2 | 23 | 8.8 | 00742.9 | -1701.8 |
| 6173 | 9.0 | 224656.3 | -1635.1 | 6263 | 9.8 | 231252.4 | -1638.4 | 6353 | 8.7  | 233630.6 | -1628.0 | 24 | 7.5 | 00753.3 | -1733.4 |
| 6174 | 9.3 | 224732.3 | -1654.5 | 6264 | 9.4 | 231253.1 | -1627.7 | 6354 | 9.6  | 233651.5 | -1619.8 | 25 | 9.6 | 00821.3 | -1737.0 |
| 6175 | 10. | 224749.5 | -1615.2 | 6265 | 9.0 | 231328.7 | -1600.2 | 6355 | 9.7  | 233728.8 | -1612.5 | 26 | 9.7 | 00826.7 | -1725.8 |
| 6176 | 10. | 224749.8 | -1609.8 | 6266 | 9.3 | 231338.9 | -1644.9 | 6356 | 9.0  | 233757.3 | -1608.7 | 27 | 10. | 00858.7 | -1757.1 |
| 6177 | 8.5 | 224802.5 | -1616.2 | 6267 | 10. | 231401.5 | -1649.1 | 6357 | 9.5  | 233820.7 | -1641.4 | 28 | 10. | 00900.9 | -1701.0 |
| 6178 | 9.0 | 224820.8 | -1614.6 | 6268 | 9.6 | 231404.8 | -1606.2 | 6358 | 9.4  | 233836.6 | -1652.1 | 29 | 9.4 | 00908.7 | -1714.2 |
| 6179 | 9.2 | 224826.6 | -1616.2 | 6269 | 10. | 231424.6 | -1611.2 | 6359 | 9.6  | 233840.8 | -1624.2 | 30 | 9.7 | 00917.3 | -1700.1 |
| 6180 | 10. | 224860.7 | -1647.7 | 6270 | 9.7 | 231445.0 | -1644.0 | 6360 | 9.8  | 233843.3 | -1606.1 | 31 | 9.2 | 00932.2 | -1723.7 |
| 6181 | 9.4 | 224853.2 | -1609.8 | 6271 | 9.5 | 231449.0 | -1646.9 | 6361 | 9.7  | 233914.1 | -1659.7 | 32 | 9.4 | 00954.0 | -1727.6 |
| 6182 | 9.7 | 224928.9 | -1659.0 | 6272 | 9.0 | 231508.3 | -1604.2 | 6362 | 10.  | 233934.7 | -1650.3 | 33 | 10. | 01040.0 | -1701.0 |
| 6183 | 9.7 | 225002.6 | -1658.7 | 6273 | 9.6 | 231518.4 | -1638.9 | 6363 | 8.2  | 234006.0 | -1647.1 | 34 | 9.8 | 01102.3 | -1715.1 |
| 6184 | 8.2 | 225029.0 | -1640.6 | 6274 | 9.8 | 231542.3 | -1610.0 | 6364 | 10.  | 234006.6 | -1616.2 | 35 | 8.5 | 01119.3 | -1750.3 |
| 6185 | 9.9 | 225056.8 | -1608.2 | 6275 | 9.8 | 231601.1 | -1609.5 | 6365 | 9.0  | 234010.3 | -1639.1 | 36 | 9.4 | 01123.9 | -1728.8 |
| 6186 | 9.3 | 225110.6 | -1658.0 | 6276 | 9.0 | 231612.0 | -1640.0 | 6366 | 9.5  | 234036.4 | -1609.8 | 37 | 9.8 | 01146.3 | -1712.9 |
| 6187 | 9.4 | 225143.0 | -1628.5 | 6277 | 9.4 | 231612.0 | -1610.4 | 6367 | 10.  | 234052.3 | -1640.1 | 38 | 9.0 | 01242.2 | -1704.1 |
| 6188 | 8.2 | 225154.0 | -1652.7 | 6278 | 8.8 | 231646.7 | -1658.2 | 6368 | 10.  | 234100.2 | -1659.8 | 39 | 9.5 | 01325.5 | -1723.0 |
| 6189 | 9.5 | 225205.3 | -1625.5 | 6279 | 9.3 | 231655.1 | -1622.4 | 6369 | 10.  | 234103.9 | -1654.9 | 40 | 10. | 01351.5 | -1719.7 |
| 6190 | 9.8 | 225218.5 | -1641.1 | 6280 | 9.8 | 231659.6 | -1623.0 | 6370 | 8.4  | 234106.8 | -1600.7 | 41 | 9.5 | 01353.2 | -1722.1 |
| 6191 | 9.4 | 225245.5 | -1617.3 | 6281 | 9.3 | 231701.4 | -1610.3 | 6371 | 9.1  | 234130.0 | -1659.4 | 42 | 8.0 | 01414.9 | -1700.5 |
| 6192 | 9.5 | 225336.9 | -1621.7 | 6282 | 8.7 | 231702.1 | -1605.3 | 6372 | 9.3  | 234155.9 | -1608.1 | 43 | 9.0 | 01510.9 | -1755.1 |
| 6193 | 8.5 | 225351.0 | -1608.9 | 6283 | 9.5 | 231703.4 | -1658.7 | 6373 | 6.3  | 234201.3 | -1639.7 | 44 | 9.5 | 01515.5 | -1715.0 |
| 6194 | 9.4 | 225413.5 | -1611.2 | 6284 | 9.8 | 231755.6 | -1636.5 | 6374 | 10.  | 234216.3 | -1613.5 | 45 | 8.0 | 01525.0 | -1722.1 |
| 6195 | 9.4 | 225525.8 | -1649.5 | 6285 | 8.5 | 231826.7 | -1656.4 | 6375 | 9.9  | 234221.0 | -1621.4 | 46 | 8.5 | 01534.1 | -1728.6 |
| 6196 | 9.5 | 225537.3 | -1627.4 | 6286 | 8.5 | 231832.5 | -1601.4 | 6376 | 8.6  | 234220.9 | -1655.7 | 47 | 9.1 | 01535.9 | -1708.9 |
| 6197 | 9.4 | 225552.6 | -1625.7 | 6287 | 9.5 | 231852.6 | -1651.9 | 6377 | 10.  | 234402.0 | -1603.2 | 48 | 9.2 | 01547.7 | -1738.8 |
| 6198 | 9.8 | 225601.9 | -1619.3 | 6288 | 10. | 231902.3 | -1605.1 | 6378 | 9.0  | 234410.0 | -1610.4 | 49 | 9.5 | 01547.7 | -1754.7 |
| 6199 | 9.3 | 225614.2 | -1609.5 | 6289 | 9.5 | 231905.9 | -1610.1 | 6379 | 9.1  | 234445.4 | -1639.7 | 50 | 8.6 | 01627.6 | -1715.0 |
| 6200 | 9.1 | 225632.7 | -1649.1 | 6290 | 10. | 231919.7 | -1637.5 | 6380 | 9.8  | 234448.7 | -1640.9 | 51 | 9.0 | 01629.6 | -1722.1 |
| 6201 | 9.1 | 225637.7 | -1647.3 | 6291 | 7.0 | 231922.5 | -1602.6 | 6381 | 9.3  | 234548.0 | -1648.2 | 52 | 9.1 | 01647.2 | -1747.7 |
| 6202 | 9.0 | 225650.0 | -1601.9 | 6292 | 9.4 | 232015.2 | -1633.5 | 6382 | 9.4  | 234559.3 | -1607.2 | 53 | 9.0 | 01650.7 | -1737.9 |
| 6203 | 9.4 | 225703.8 | -1656.0 | 6293 | 6.8 | 232022.0 | -1605.6 | 6383 | 8.9  | 234616.5 | -1640.4 | 54 | 6.6 | 01651.7 | -1734.5 |
| 6204 | 8.9 | 225708.7 | -1629.9 | 6294 | 9.0 | 232031.7 | -1651.4 | 6384 | 9.5  | 234624.1 | -1604.2 | 55 | 9.0 | 01709.1 | -1701.7 |
| 6205 | 8.3 | 225745.7 | -1612.1 | 6295 | 10. | 232043.1 | -1601.5 | 6385 | 8.6  | 234651.1 | -1626.8 | 56 | 9.4 | 01718.6 | -1714.7 |
| 6206 | 9.7 | 225811.2 | -1612.1 | 6296 | 8.8 | 232110.9 | -1602.2 | 6386 | 9.5  | 234741.2 | -1609.1 | 57 | 9.0 | 01839.3 | -1700.1 |
| 6207 | 9.1 | 225811.8 | -1634.1 | 6297 | 9.6 | 232133.9 | -1602.2 | 6387 | 9.3  | 234748.3 | -1620.1 | 58 | 9.3 | 01926.0 | -1737.4 |
| 6208 | 8.0 | 225813.5 | -1613.8 | 6298 | 9.8 | 232143.5 | -1653.1 | 6388 | 9.6  | 234903.6 | -1604.0 | 59 | 9.5 | 01937.0 | -1751.7 |
| 6209 | 10. | 225851.1 | -1645.8 | 6299 | 9.7 | 232144.1 | -1658.7 | 6389 | 9.6  | 234912.8 | -1616.1 | 60 | 9.1 | 01958.4 | -1741.6 |
| 6210 | 9.2 | 225908.3 | -1624.6 | 6300 | 9.3 | 232238.1 | -1610.3 | 6390 | 8.4  | 234954.6 | -1654.0 | 61 | 7.3 | 02018.7 | -1712.3 |
| 6211 | 9.1 | 225911.9 | -1623.6 | 6301 | 9.3 | 232241.3 | -1628.2 | 6391 | 9.4  | 235001.2 | -1657.7 | 62 | 9.0 | 02029.1 | -1745.1 |
| 6212 | 10. | 225932.4 | -1627.9 | 6302 | 9.8 | 232319.2 | -1632.7 | 6392 | 9.4  | 235029.8 | -1623.2 | 63 | 9.0 | 02117.6 | -1700.9 |
| 6213 | 10. | 225947.3 | -1610.3 | 6303 | 7.3 | 232320.1 | -1646.8 | 6393 | 9.4  | 235035.9 | -1610.4 | 64 | 9.8 | 02118.4 | -1740.6 |
| 6214 | 10. | 225953.4 | -1642.0 | 6304 | 9.0 | 232325.6 | -1603.3 | 6394 | 6.2  | 235053.1 | -1638.8 | 65 | 9.5 | 02131.2 | -1721.5 |
| 6215 | 9.5 | 230001.3 | -1654.3 | 6305 | 10. | 232330.4 | -1606.7 | 6395 | 9.3  | 235101.8 | -1619.1 | 66 | 9.5 | 02150.5 | -1737.7 |
| 6216 | 10. | 230018.4 | -1619.2 | 6306 | 8.9 | 232336.1 | -1619.8 | 6396 | 9.7  | 235123.4 | -1630.4 | 67 | 9.4 | 02154.5 | -1738.7 |
| 6217 | 9.5 | 230019.6 | -1600.4 | 6307 | 10. | 232427.2 | -1603.6 | 6397 | 9.4  | 235203.8 | -1644.5 | 68 | 9.8 | 02218.2 | -1710.4 |
| 6218 | 10. | 230041.1 | -1611.1 | 6308 | 9.5 | 232439.6 | -1651.0 | 6398 | 9.7  | 235220.5 | -1615.0 | 69 | 9.1 | 02238.1 | -1709.4 |
| 6219 | 10. | 230042.7 | -1605.3 | 6309 | 9.7 | 232448.2 | -1636.7 | 6399 | 9.8  | 235246.5 | -1659.3 | 70 | 8.1 | 02358.1 | -1725.5 |
| 6220 | 9.2 | 230139.8 | -1600.0 | 6310 | 9.0 | 232517.7 | -1623.5 | 6400 | 9.8  | 235304.4 | -1625.7 | 71 | 9.1 | 02510.9 | -1733.0 |
| 6221 | 9.8 | 230204.2 | -1619.0 | 6311 | 9.9 | 232554.1 | -1640.8 | 6401 | 9.4  | 235305.4 | -1610.4 | 72 | 9.7 | 02524.3 | -1747.6 |
| 6222 | 9.5 | 230224.1 | -1609.7 | 6312 | 10. | 232622.2 | -1630.2 | 6402 | 10.  | 235337.0 | -1627.2 | 73 | 9.4 | 02549.3 | -1743.9 |
| 6223 | 9.2 | 230225.2 | -1631.6 | 6313 | 9.6 | 232713.2 | -1649.4 | 6403 | 9.8  | 235407.0 | -1623.9 | 74 | 10. | 02607.0 | -1716.3 |
| 6224 | 8.5 | 230225.4 | -1658.3 | 6314 | 6.0 | 232715.8 | -1602.5 | 6404 | 9.5  | 235428.7 | -1653.4 | 75 | 9.1 | 02619.7 | -1743.5 |
| 6225 | 8.9 | 230232.1 |         |      |     |          |         |      |      |          |         |    |     |         |         |



|          |         |         |          |         |         |          |         |         |          |          |         |
|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|----------|---------|
| 92 10.0  | 03011.2 | -1752.7 | 182 9.8  | 05449.8 | -1745.2 | 272 9.1  | 12358.7 | -1722.7 | 362 9.5  | 15118.4  | -1713.1 |
| 93 9.2   | 03027.3 | -1744.1 | 183 10.0 | 05514.1 | -1739.4 | 273 8.8  | 12428.6 | -1715.3 | 363 9.8  | 15145.6  | -1714.6 |
| 94 9.2   | 03033.4 | -1739.5 | 184 10.0 | 05541.8 | -1702.2 | 274 8.0  | 12429.8 | -1731.0 | 364 9.5  | 15257.3  | -1718.5 |
| 95 8.0   | 03036.3 | -1728.2 | 185 10.0 | 05545.0 | -1729.5 | 275 9.8  | 12441.6 | -1748.5 | 365 9.5  | 15314.5  | -1738.5 |
| 96 9.7   | 03037.5 | -1749.1 | 186 9.8  | 05613.6 | -1745.6 | 276 9.5  | 12446.5 | -1710.2 | 366 8.7  | 15319.2  | -1703.2 |
| 97 9.4   | 03038.8 | -1724.8 | 187 9.0  | 05622.9 | -1721.5 | 277 9.0  | 12506.4 | -1736.3 | 367 9.5  | 15351.9  | -1730.6 |
| 98 7.8   | 03054.8 | -1700.1 | 188 9.1  | 05638.5 | -1758.7 | 278 9.4  | 12518.5 | -1710.9 | 368 9.5  | 15359.6  | -1753.3 |
| 99 9.6   | 03100.6 | -1713.5 | 189 9.4  | 05700.0 | -1726.2 | 279 9.6  | 12527.4 | -1702.8 | 369 10.0 | 15402.0  | -1713.9 |
| 100 9.8  | 03109.2 | -1739.2 | 190 9.1  | 05830.1 | -1722.5 | 280 8.6  | 12545.5 | -1708.2 | 370 9.2  | 15449.1  | -1739.1 |
| 101 9.7  | 03112.7 | -1752.6 | 191 9.7  | 05848.7 | -1733.2 | 281 9.7  | 12601.3 | -1746.4 | 371 7.3  | 15500.6  | -1716.1 |
| 102 9.8  | 03119.8 | -1755.3 | 192 9.5  | 05914.2 | -1730.3 | 282 9.7  | 12604.3 | -1750.6 | 372 9.5  | 15502.0  | -1757.0 |
| 103 8.5  | 03134.9 | -1732.5 | 193 10.0 | 05916.1 | -1754.6 | 283 9.9  | 12728.0 | -1759.0 | 373 9.1  | 15514.8  | -1716.6 |
| 104 9.7  | 03137.7 | -1751.6 | 194 9.8  | 05936.0 | -1736.2 | 284 8.9  | 12825.1 | -1732.4 | 374 9.5  | 15515.0  | -1758.3 |
| 105 10.0 | 03144.3 | -1753.8 | 195 8.8  | 10032.0 | -1715.0 | 285 9.8  | 12843.7 | -1707.1 | 375 9.2  | 15516.0  | -1702.2 |
| 106 8.5  | 03220.2 | -1707.2 | 196 9.3  | 10102.1 | -1720.1 | 286 9.7  | 12849.8 | -1720.9 | 376 9.2  | 15534.3  | -1703.7 |
| 107 9.5  | 03243.1 | -1752.0 | 197 9.4  | 10104.4 | -1711.7 | 287 9.8  | 12854.1 | -1732.3 | 377 9.8  | 15557.6  | -1735.5 |
| 108 9.2  | 03310.8 | -1717.0 | 198 8.3  | 10130.6 | -1750.1 | 288 9.2  | 12907.8 | -1717.5 | 378 9.4  | 15600.3  | -1701.1 |
| 109 6.5  | 03312.0 | -1718.6 | 199 10.0 | 10229.5 | -1736.5 | 289 9.7  | 12908.0 | -1758.2 | 379 9.8  | 15624.5  | -1718.8 |
| 110 9.4  | 03316.3 | -1727.7 | 200 9.9  | 10231.5 | -1739.8 | 290 9.3  | 12937.2 | -1708.9 | 380 9.5  | 15625.9  | -1752.0 |
| 111 9.4  | 03344.1 | -1710.4 | 201 9.8  | 10233.4 | -1754.5 | 291 9.8  | 12952.9 | -1741.5 | 381 7.7  | 15628.9  | -1743.8 |
| 112 9.4  | 03422.3 | -1707.5 | 202 9.5  | 10311.2 | -1744.2 | 292 9.1  | 13008.9 | -1700.4 | 382 9.8  | 15703.8  | -1707.7 |
| 113 9.1  | 03425.0 | -1710.3 | 203 9.8  | 10315.3 | -1731.0 | 293 9.8  | 13103.5 | -1741.4 | 383 8.8  | 15744.9  | -1705.0 |
| 114 9.5  | 03451.7 | -1745.8 | 204 7.2  | 10315.4 | -1704.8 | 294 9.7  | 13130.7 | -1735.8 | 384 7.3  | 15751.7  | -1759.0 |
| 115 9.8  | 03518.6 | -1701.9 | 205 9.8  | 10318.8 | -1700.8 | 295 9.9  | 13147.4 | -1715.0 | 385 9.7  | 15757.6  | -1747.2 |
| 116 8.3  | 03520.2 | -1730.4 | 206 8.6  | 10331.8 | -1756.0 | 296 9.8  | 13214.0 | -1745.9 | 386 10.0 | 15818.2  | -1702.4 |
| 117 9.3  | 03528.2 | -1742.7 | 207 9.5  | 10347.7 | -1722.4 | 297 9.1  | 13218.3 | -1759.1 | 387 9.6  | 15832.1  | -1753.1 |
| 118 9.5  | 03541.6 | -1720.2 | 208 9.5  | 10433.9 | -1708.9 | 298 9.9  | 13243.8 | -1750.5 | 388 9.5  | 15821.0  | -1747.9 |
| 119 9.5  | 03613.5 | -1758.5 | 209 9.8  | 10453.8 | -1725.0 | 299 9.5  | 13314.4 | -1750.6 | 389 9.4  | 16001.5  | -1717.9 |
| 120 8.8  | 03632.3 | -1706.6 | 210 9.3  | 10521.8 | -1721.4 | 300 8.0  | 13314.6 | -1743.3 | 390 9.5  | 16021.2  | -1757.2 |
| 121 10.0 | 03702.6 | -1752.7 | 211 9.3  | 10554.0 | -1727.4 | 301 7.5  | 13332.7 | -1701.3 | 391 8.8  | 16029.5  | -1700.3 |
| 122 9.5  | 03707.5 | -1753.8 | 212 9.2  | 10605.3 | -1741.7 | 302 10.0 | 13334.2 | -1750.0 | 392 9.5  | 16045.9  | -1741.7 |
| 123 9.4  | 03707.7 | -1725.5 | 213 9.8  | 10637.5 | -1702.5 | 303 8.8  | 13440.7 | -1745.1 | 393 9.1  | 16100.3  | -1740.4 |
| 124 9.8  | 03708.3 | -1715.7 | 214 10.0 | 10640.6 | -1741.3 | 304 8.5  | 13459.3 | -1754.3 | 394 8.5  | 16103.5  | -1731.7 |
| 125 9.9  | 03715.2 | -1714.7 | 215 9.8  | 10640.7 | -1722.2 | 305 9.4  | 13552.6 | -1719.2 | 395 9.8  | 16106.6  | -1703.9 |
| 126 10.0 | 03717.1 | -1735.1 | 216 9.8  | 10641.2 | -1708.4 | 306 9.1  | 13611.8 | -1733.7 | 396 8.8  | 16115.3  | -1709.3 |
| 127 10.0 | 03722.1 | -1737.4 | 217 10.0 | 10646.1 | -1738.1 | 307 9.7  | 13651.3 | -1712.6 | 397 9.3  | 16129.4  | -1739.5 |
| 128 9.5  | 03733.4 | -1748.6 | 218 9.3  | 10655.7 | -1759.7 | 308 9.2  | 13704.2 | -1748.5 | 398 9.3  | 16131.4  | -1744.8 |
| 129 9.3  | 03733.8 | -1736.2 | 219 9.5  | 10657.7 | -1711.5 | 309 8.2  | 13737.7 | -1753.8 | 399 8.3  | 16207.6  | -1720.2 |
| 130 10.0 | 03802.5 | -1701.9 | 220 9.6  | 10713.0 | -1729.8 | 310 9.0  | 13819.6 | -1712.7 | 400 9.8  | 16210.4  | -1701.9 |
| 131 9.1  | 03805.6 | -1729.5 | 221 9.3  | 10719.6 | -1757.9 | 311 9.3  | 13822.5 | -1710.3 | 401 9.7  | 16220.9  | -1738.6 |
| 132 6.5  | 03825.9 | -1712.9 | 222 9.3  | 10726.0 | -1752.4 | 312 9.3  | 13833.2 | -1755.7 | 402 7.8  | 16236.4  | -1759.9 |
| 133 9.4  | 03837.7 | -1734.4 | 223 10.0 | 10740.6 | -1700.2 | 313 9.4  | 13905.1 | -1759.9 | 403 10.0 | 16250.3  | -1712.2 |
| 134 7.9  | 03842.9 | -1726.4 | 224 9.8  | 10759.5 | -1751.0 | 314 9.5  | 13919.1 | -1707.6 | 404 8.5  | 16250.8  | -1753.1 |
| 135 9.8  | 03913.8 | -1720.5 | 225 9.4  | 10902.3 | -1758.8 | 315 9.2  | 13927.2 | -1701.8 | 405 9.0  | 16252.7  | -1724.3 |
| 136 9.5  | 03914.7 | -1749.0 | 226 8.5  | 10923.1 | -1723.1 | 316 9.2  | 13933.9 | -1721.9 | 406 9.6  | 16244.4  | -1700.9 |
| 137 9.4  | 03922.5 | -1700.0 | 227 8.7  | 10937.1 | -1728.2 | 317 9.5  | 14032.6 | -1737.9 | 407 8.7  | 16245.9  | -1735.4 |
| 138 10.0 | 03930.1 | -1721.7 | 228 9.5  | 10941.4 | -1756.2 | 318 9.1  | 14034.5 | -1733.0 | 408 9.8  | 16249.8  | -1755.3 |
| 139 9.1  | 04048.8 | -1727.2 | 229 7.5  | 10953.5 | -1751.0 | 319 8.0  | 14039.0 | -1756.3 | 409 9.6  | 16251.3  | -1743.6 |
| 140 9.5  | 04059.4 | -1746.1 | 230 9.4  | 11013.1 | -1702.2 | 320 9.4  | 14046.1 | -1732.4 | 410 9.7  | 16241.5  | -1702.1 |
| 141 9.0  | 04147.1 | -1710.9 | 231 9.0  | 11031.4 | -1712.3 | 321 10.0 | 14114.7 | -1734.6 | 411 9.8  | 16258.2  | -1722.0 |
| 142 9.2  | 04154.6 | -1710.5 | 232 8.2  | 11243.5 | -1747.6 | 322 9.0  | 14146.7 | -1737.9 | 412 9.5  | 162510.9 | -1722.8 |
| 143 9.1  | 04244.2 | -1728.9 | 233 9.9  | 11255.3 | -1728.5 | 323 10.0 | 14153.8 | -1711.6 | 413 9.0  | 162515.2 | -1704.5 |
| 144 9.4  | 04253.5 | -1747.1 | 234 8.9  | 11257.9 | -1736.8 | 324 9.0  | 14217.5 | -1722.9 | 414 9.5  | 162535.8 | -1751.3 |
| 145 9.8  | 04329.4 | -1731.9 | 235 10.0 | 11316.0 | -1708.0 | 325 10.0 | 14236.3 | -1713.8 | 415 8.5  | 162536.2 | -1704.5 |
| 146 9.6  | 04411.0 | -1759.9 | 236 9.2  | 11317.5 | -1757.2 | 326 10.0 | 14251.2 | -1733.7 | 416 9.5  | 162635.0 | -1758.5 |
| 147 10.0 | 04412.9 | -1724.5 | 237 9.8  | 11351.6 | -1721.0 | 327 8.9  | 14253.6 | -1729.7 | 417 10.0 | 162650.9 | -1724.7 |
| 148 9.7  | 04413.5 | -1708.0 | 238 9.2  | 11419.8 | -1750.5 | 328 9.9  | 14327.4 | -1723.1 | 418 9.6  | 162637.6 | -1708.1 |
| 149 9.0  | 04422.9 | -1752.1 | 239 9.1  | 11426.1 | -1714.7 | 329 9.5  | 14351.8 | -1736.2 | 419 8.3  | 162702.5 | -1714.4 |
| 150 9.0  | 04432.9 | -1751.9 | 240 10.0 | 11433.4 | -1729.8 | 330 8.2  | 14428.9 | -1727.4 | 420 9.5  | 162707.4 | -1753.7 |
| 151 10.0 | 04510.0 | -1754.4 | 241 9.9  | 11455.3 | -1737.0 | 331 8.8  | 14432.1 | -1742.4 | 421 9.9  | 162707.4 | -1721.5 |
| 152 9.2  | 04550.8 | -1713.8 | 242 9.8  | 11504.9 | -1751.5 | 332 8.7  | 14440.0 | -1701.3 | 422 8.0  | 162710.5 | -1753.9 |
| 153 9.3  | 04634.2 | -1732.8 | 243 10.0 | 11515.7 | -1755.5 | 333 9.8  | 14517.2 | -1731.1 | 423 9.5  | 162722.4 | -1721.1 |
| 154 9.2  | 04638.9 | -1717.1 | 244 9.3  | 11536.0 | -1703.6 | 334 9.4  | 14535.3 | -1737.0 | 424 10.0 | 162734.9 | -1718.4 |
| 155 9.3  | 04637.7 | -1719.2 | 245 10.0 | 11547.2 | -1749.2 | 335 9.5  | 14538.7 | -1752.1 | 425 9.8  | 162747.4 | -1736.7 |
| 156 10.0 | 04649.8 | -1748.9 | 246 9.5  | 11548.6 | -1708.6 | 336 6.2  | 14554.0 | -1728.3 | 426 9.5  | 162757.7 | -1726.2 |
| 157 8.5  | 04657.4 | -1713.3 | 247 7.5  | 11556.5 | -1714.4 | 337 9.5  | 14554.9 | -1703.1 | 427 9.6  | 162810.5 | -1756.4 |
| 158 10.0 | 04747.1 | -1737.4 | 248 7.0  | 11556.5 | -1719.4 | 338 8.0  | 14602.6 | -1712.0 | 428 9.9  | 162810.8 | -1730.5 |
| 159 8.0  | 04800.4 | -1745.3 | 249 9.3  | 11635.8 | -1717.0 | 339 9.7  | 14603.6 | -1729.6 | 429 8.6  | 162819.5 | -1707.7 |
| 160 10.0 | 04809.9 | -1706.4 | 250 9.6  | 11711.6 | -1732.4 | 340 8.2  | 14609.6 | -1727.1 | 430 9.3  | 162824.5 | -1705.5 |
| 161 10.0 | 04818.9 | -1704.3 | 251 9.8  | 11719.5 | -1715.5 | 341 9.3  | 14620.2 | -1700.1 | 431 9.8  | 162827.1 | -1741.5 |
| 162 9.9  | 04823.6 | -1757.3 | 252 9.1  | 11726.7 | -1700.1 | 342 9.0  | 14708.4 | -1745.6 | 432 9.6  | 162842.9 | -1711.9 |
| 163 8.9  | 04837.2 | -1709.1 | 253 8.9  | 11732.7 | -1712.1 | 343 9.7  | 14804.2 | -1751.3 | 433 8.3  | 162907.4 | -1717.2 |
| 164 9.8  | 04858.7 | -1731.5 | 254 9.6  | 11746.3 | -1755.5 | 344 9.5  | 14817.3 | -1711.3 | 434 9.8  | 162926.0 | -1751.9 |
| 165 10.0 | 04919.1 | -1727.1 | 255 9.1  | 11805.6 | -1737.5 | 345 9.9  | 14837.1 | -1723.1 | 435 10.0 | 162935.5 | -1748.9 |
| 166 9.0  | 04944.6 | -1751.7 | 256 10.0 | 11805.5 | -1728.6 | 346 9.8  | 14850.0 | -1741.6 | 436 10.0 | 162936.9 | -1742.2 |
| 167 9.2  | 04954.8 | -1735.4 | 257 9.8  | 11906.9 | -1706.3 | 347 9.3  | 14851.9 | -1705.8 | 437 9.7  | 162931.6 | -1754.9 |
| 168 9.8  | 05006.0 | -1727.1 | 258 8.8  | 11908.0 | -1739.9 | 348 8.8  | 14853.1 | -1750.7 | 438 9.6  | 162952.1 | -1722.3 |
| 169 9.6  | 05112.4 | -1735.1 | 259 10.0 | 11850.1 | -1733.3 | 349 9.5  | 14856.9 | -1755.5 | 439 9.4  | 162952.7 | -1747.6 |
| 170 9.1  | 05115.3 | -1755.0 | 260 9.3  | 11907.9 | -1745.6 | 350 9.8  | 14900.2 | -1727.7 | 440 8.7  | 162953.1 | -1700.1 |
| 171 10.0 | 05138.2 | -1756.1 | 261 8.9  | 11921.4 | -1717.0 | 351 8.5  | 14903.4 | -1740.2 | 441 9.0  | 162955.6 | -1751.9 |
| 172 9.6  | 05215.3 | -1701.1 | 262 10.0 | 12019.2 | -1759.7 | 352 9.2  | 14910.3 | -1733.6 | 442 8.5  | 162107.4 | -1728.1 |
| 173 8.2  | 05254.8 | -1725.9 | 263 9.0  | 12033.5 | -1749.7 | 353 10.0 | 14926.5 | -1711.4 | 443 8.5  | 162208.1 | -1723.0 |
| 174 9.8  | 05311.7 | -1745.2 | 264 10.0 | 12039.7 | -1742.4 | 354 9.2  | 14940.1 | -1701.1 | 444 9.7  | 162220.2 | -1729.7 |
| 175 8.4  | 05320.8 | -1751.3 | 265 9.4  | 12040.2 | -1702.1 | 355 10.0 | 15003.6 | -1712.4 | 445 10.0 | 162231.2 | -1733.0 |
| 176 9.0  |         |         |          |         |         |          |         |         |          |          |         |



452 8.7 21421.0 -1746.7  
 453 9.0 21445.7 -1703.2  
 454 9.7 21446.3 -1733.8  
 455 8.8 21450.9 -1737.4  
 456 9.4 21452.3 -1700.6  
 457 7.5 21526.0 -1709.8  
 458 9.8 21534.3 -1740.0  
 459 10. 21535.5 -1735.5  
 460 9.6 21543.4 -1743.5  
 461 9.6 21546.0 -1744.9

462 9.6 21610.5 -1713.5  
 463 9.0 21622.6 -1705.7  
 464 9.0 21720.3 -1753.5  
 465 9.3 21736.7 -1703.4  
 466 10. 21804.3 -1743.6  
 467 10. 21811.8 -1745.7  
 468 9.1 21858.3 -1721.7  
 469 9.8 21931.5 -1753.8  
 470 8.6 21937.4 -1723.8  
 471 9.7 21948.4 -1751.9

472 8.7 22001.6 -1749.0  
 473 9.6 22012.6 -1716.1  
 474 9.5 22052.4 -1701.8  
 475 9.3 22153.6 -1747.6  
 476 9.7 22131.1 -1715.8  
 477 8.5 22228.0 -1754.3  
 478 9.5 22254.3 -1709.1  
 479 9.7 22312.5 -1702.9  
 480 8.0 22315.7 -1737.7  
 481 8.8 22326.9 -1706.4

482 9.2 22339.2 -1739.2  
 483 10. 22427.5 -1728.6  
 484 9.4 22433.4 -1737.5  
 485 9.3 22446.6 -1723.0  
 486 9.4 22459.7 -1750.7  
 487 9.3 22511.0 -1706.5  
 488 9.8 22544.2 -1755.5  
 489 9.9 22545.5 -1723.7  
 490 9.2 22547.2 -1729.9  
 491 9.5 22547.8 -1722.1

492 10. 22617.0 -1756.0  
 493 10. 22634.0 -1739.0  
 494 9.0 22647.6 -1715.0  
 495 9.6 22657.9 -1743.9  
 496 10. 22734.2 -1740.8  
 497 10. 22800.4 -1717.3  
 498 7.2 22815.3 -1755.3  
 499 9.8 22848.7 -1740.6  
 500 9.4 22846.2 -1714.2  
 501 9.0 2291.2 -1718.2

502 7.9 22917.7 -1746.5  
 503 8.9 22927.9 -1745.4  
 504 9.5 22945.8 -1721.4  
 505 8.6 23004.7 -1718.4  
 506 9.1 23033.0 -1710.4  
 507 8.5 23115.7 -1747.2  
 508 9.8 23131.5 -1758.5  
 509 9.1 23155.6 -1708.3  
 510 9.7 23219.0 -1744.7  
 511 10. 23231.4 -1753.0

512 9.9 23235.8 -1727.3  
 513 9.8 23242.8 -1718.0  
 514 9.3 23322.7 -1704.2  
 515 9.3 23333.7 -1740.8  
 516 9.0 23351.1 -1759.8  
 517 9.9 23401.0 -1754.3  
 518 10. 23429.6 -1736.5  
 519 8.0 23439.5 -1724.4  
 520 9.8 23522.6 -1737.5  
 521 9.5 23531.3 -1744.2

522 9.1 23546.5 -1722.0  
 523 9.3 23613.5 -1714.7  
 524 8.9 23618.1 -1733.0  
 525 10. 23658.6 -1730.0  
 526 9.6 23727.8 -1708.8  
 527 9.9 23826.8 -1756.9  
 528 9.6 23849.5 -1715.8  
 529 9.0 23856.7 -1704.3  
 530 10. 23857.2 -1737.7  
 531 9.4 23858.3 -1758.0

532 9.6 23909.9 -1742.7  
 533 10. 23942.8 -1736.1  
 534 10. 23943.8 -1712.7  
 535 9.3 24038.6 -1713.8  
 536 9.0 24041.9 -1758.9  
 537 9.4 24045.0 -1703.6  
 538 9.7 24052.2 -1749.0  
 539 9.4 24118.8 -1756.0  
 540 8.0 24153.3 -1725.0  
 541 9.7 24155.0 -1742.3

542 8.9 24235.5 -1725.5  
 543 8.5 24235.8 -1745.6  
 544 8.8 24240.8 -1705.5  
 545 9.0 24247.3 -1717.3  
 546 9.7 24250.7 -1713.6  
 547 8.0 24257.8 -1753.5  
 548 9.4 24358.6 -1715.7  
 549 10. 24407.9 -1758.1  
 550 9.6 24439.7 -1739.2  
 551 10. 24456.0 -1702.0

552 9.8 24500.7 -1748.7  
 553 9.8 24504.2 -1705.6  
 554 7.3 24505.1 -1751.0  
 555 10. 24518.5 -1728.5  
 556 10. 24537.3 -1706.3  
 557 7.0 24600.9 -1712.5  
 558 9.4 24620.4 -1715.9  
 559 9.8 24635.2 -1705.4  
 560 9.6 24644.5 -1751.3  
 561 9.2 24652.0 -1740.7

562 9.6 24731.9 -1751.1  
 563 8.6 24747.6 -1722.8  
 564 10. 24752.0 -1735.3  
 565 9.2 24841.0 -1740.7  
 566 10. 24849.4 -1714.4  
 567 9.3 24908.7 -1703.5  
 568 8.7 24912.8 -1733.6  
 569 9.8 24936.3 -1731.1  
 570 9.5 25010.1 -1714.9  
 571 8.8 25024.7 -1712.2

572 9.3 25025.2 -1730.4  
 573 9.2 25027.8 -1745.1  
 574 9.8 25039.9 -1743.7  
 575 9.8 25050.2 -1722.3  
 576 9.2 25112.2 -1747.0  
 577 9.6 25158.2 -1737.5  
 578 9.3 25216.0 -1754.5  
 579 9.1 25245.7 -1759.7  
 580 8.0 25257.6 -1718.4  
 581 9.1 25312.7 -1701.9

582 8.5 25313.1 -1716.7  
 583 10. 25342.7 -1714.7  
 584 9.1 25359.1 -1755.0  
 585 9.3 25428.4 -1747.4  
 586 9.1 25433.9 -1724.1  
 587 7.5 25437.4 -1748.4  
 588 9.4 25509.6 -1709.7  
 589 9.8 25556.2 -1751.0  
 590 9.4 25628.7 -1729.3  
 591 9.9 25646.3 -1731.0

592 9.3 25646.7 -1740.9  
 593 9.7 25703.4 -1744.7  
 594 9.3 25745.7 -1710.7  
 595 9.2 25750.1 -1743.3  
 596 9.7 25840.0 -1725.9  
 597 6.8 25847.8 -1710.2  
 598 9.1 25902.0 -1724.8  
 599 9.5 25938.2 -1735.0  
 600 9.9 25939.3 -1702.0  
 601 9.5 25945.3 -1750.7

602 9.0 30030.7 -1704.7  
 603 9.2 30112.4 -1754.5  
 604 9.4 30130.0 -1703.2  
 605 10. 30141.2 -1730.7  
 606 9.5 30205.9 -1742.6  
 607 10. 30227.3 -1732.1  
 608 9.5 30304.2 -1737.3  
 609 9.3 30313.3 -1750.3  
 610 9.8 30401.1 -1713.6  
 611 8.8 30410.0 -1742.3

612 8.8 30429.0 -1737.0  
 613 8.6 30431.8 -1759.2  
 614 8.0 30500.1 -1707.7  
 615 9.3 30544.7 -1709.8  
 616 8.6 30554.2 -1719.6  
 617 9.4 30555.9 -1722.5  
 618 9.8 30606.1 -1747.0  
 619 9.8 30619.9 -1728.7  
 620 9.5 30638.0 -1732.3  
 621 9.7 30642.9 -1726.4

622 9.7 30657.8 -1740.4  
 623 8.5 30658.9 -1754.9  
 624 10. 30703.7 -1749.1  
 625 9.6 30706.5 -1735.0  
 626 9.2 30721.6 -1738.9  
 627 9.4 30722.4 -1708.6  
 628 9.1 30724.0 -1758.3  
 629 8.5 30733.0 -1712.4  
 630 8.3 30849.1 -1705.4  
 631 7.5 30904.4 -1721.9

632 10. 30924.2 -1705.4  
 633 9.4 30934.4 -1701.1  
 634 9.3 30936.4 -1710.1  
 635 9.6 30943.3 -1755.4  
 636 9.5 30959.4 -1750.2  
 637 9.4 31036.9 -1711.2  
 638 10. 31040.4 -1754.4  
 639 9.4 31103.7 -1731.9  
 640 9.1 31211.0 -1718.6  
 641 8.0 31243.0 -1757.2

642 9.5 31251.7 -1745.8  
 643 9.4 31311.3 -1717.1  
 644 9.6 31313.1 -1759.7  
 645 10. 31322.4 -1740.8  
 646 9.5 31326.1 -1744.7  
 647 9.6 31351.9 -1707.5  
 648 8.9 31419.0 -1718.3  
 649 9.8 31431.8 -1745.6  
 650 10. 31457.8 -1742.5  
 651 9.2 31505.8 -1702.2

652 9.5 31516.4 -1707.0  
 653 8.9 31610.7 -1721.7  
 654 6.0 31639.9 -1757.1  
 655 9.4 31707.0 -1705.0  
 656 9.8 31710.5 -1753.5  
 657 8.8 31722.7 -1748.8  
 658 9.5 31726.3 -1727.7  
 659 9.4 31732.7 -1759.3  
 660 10. 31753.6 -1713.6  
 661 9.4 31801.1 -1753.8

662 9.5 31816.5 -1740.1  
 663 9.5 31843.0 -1705.1  
 664 9.1 31854.8 -1722.9  
 665 9.2 31911.5 -1706.4  
 666 8.6 32000.7 -1748.0  
 667 9.0 32014.8 -1722.4  
 668 9.1 32050.2 -1704.7  
 669 9.4 32142.8 -1758.7  
 670 9.4 32210.7 -1758.6  
 671 9.0 32211.8 -1759.2

672 9.4 32213.5 -1732.7  
 673 9.7 32235.6 -1732.0  
 674 9.1 32237.1 -1733.6  
 675 9.5 32242.0 -1757.6  
 676 9.9 32247.0 -1741.4  
 677 8.0 32254.6 -1730.0  
 678 8.5 32320.5 -1727.3  
 679 9.7 32322.9 -1757.3  
 680 9.9 32328.3 -1755.6  
 681 9.1 32340.9 -1715.9

682 9.7 32402.5 -1751.0  
 683 7.5 32424.4 -1739.8  
 684 8.9 32429.7 -1706.6  
 685 7.0 32445.8 -1716.6  
 686 9.3 32456.4 -1740.3  
 687 9.6 32459.8 -1742.0  
 688 9.6 32528.4 -1716.8  
 689 8.7 32612.2 -1717.5  
 690 9.2 32623.9 -1758.5  
 691 9.7 32639.8 -1740.6

692 8.8 32654.1 -1726.5  
 693 9.8 32701.9 -1743.5  
 694 9.8 32718.6 -1744.2  
 695 9.1 32903.3 -1705.4  
 696 9.0 32915.6 -1742.1  
 697 8.3 32931.2 -1734.4  
 698 8.8 32935.5 -1747.8  
 699 5.0 32941.0 -1756.6  
 700 9.3 32941.0 -1714.7  
 701 9.4 32957.9 -1744.2

702 9.8 33042.4 -1703.4  
 703 10. 33045.2 -1708.7  
 704 9.8 33121.9 -1739.3  
 705 9.6 33122.3 -1713.4  
 706 9.5 33207.7 -1728.9  
 707 6.8 33309.6 -1750.1  
 708 10. 33307.1 -1720.4  
 709 8.8 33323.5 -1707.2  
 710 9.8 33336.7 -1756.0  
 711 9.3 33421.0 -1700.4

712 9.0 33436.6 -1750.0  
 713 8.5 33514.0 -1731.1  
 714 9.4 33522.5 -1706.9  
 715 7.5 33527.7 -1736.6  
 716 9.4 33532.6 -1737.5  
 717 9.7 33533.6 -1747.7  
 718 8.6 33545.2 -1739.3  
 719 9.8 33545.6 -1708.5  
 720 10. 33700.8 -1754.0  
 721 9.4 33824.9 -1714.6

722 9.5 33858.4 -1718.2  
 723 8.0 33902.2 -1736.1  
 724 8.6 33920.3 -1712.5  
 725 9.4 34002.3 -1741.5  
 726 9.5 34005.0 -1715.9  
 727 9.0 34005.7 -1758.2  
 728 9.4 34031.4 -1759.7  
 729 9.4 34051.6 -1736.9  
 730 7.7 34056.4 -1758.4  
 731 9.8 34116.3 -1713.7

732 9.0 34132.3 -1708.3  
 733 9.3 34206.0 -1748.0  
 734 8.9 34251.9 -1753.8  
 735 8.9 34252.1 -1705.3  
 736 9.2 34304.1 -1723.2  
 737 9.8 34305.5 -1740.7  
 738 7.9 34333.4 -1713.4  
 739 8.0 34335.2 -1705.1  
 740 9.4 34339.9 -1713.0  
 741 9.4 34342.5 -1718.6

742 8.7 34353.8 -1707.7  
 743 10. 34457.7 -1740.1  
 744 7.2 34457.9 -1736.5  
 745 9.0 34509.8 -1734.8  
 746 8.5 34543.1 -1758.1  
 747 9.0 34555.7 -1721.4  
 748 9.4 34616.4 -1708.4  
 749 9.3 34617.1 -1731.5  
 750 10. 34633.0 -1727.3  
 751 9.8 34720.2 -1725.5

752 8.3 34811.5 -1747.5  
 753 10. 34812.8 -1729.5  
 754 8.1 34813.3 -1754.2  
 755 7.5 34813.7 -1726.5  
 756 8.9 34851.6 -1717.0  
 757 9.5 34928.1 -1712.5  
 758 9.9 34951.7 -1744.9  
 759 9.7 35002.6 -1759.9  
 760 8.7 35050.7 -1757.4  
 761 9.2 35104.6 -1710.0

762 9.8 35107.2 -1717.1  
 763 9.8 35115.4 -1728.9  
 764 9.5 35127.1 -1737.8  
 765 8.6 35140.7 -1747.8  
 766 9.0 35224.3 -1739.0  
 767 9.1 35258.8 -1714.9  
 768 9.4 35302.5 -1731.9  
 769 9.4 35307.3 -1748.2  
 770 9.3 35308.6 -1759.8  
 771 8.0 35314.9 -1712.2

772 9.1 35325.5 -1703.8  
 773 9.5 35341.6 -1701.2  
 774 8.5 35401.1 -1724.6  
 775 8.6 35413.8 -1731.0  
 776 8.0 35428.5 -1746.7  
 777 9.8 35523.5 -1747.9  
 778 9.5 35529.0 -1724.0  
 779 9.9 35530.4 -1759.0  
 780 10. 35538.2 -1740.3  
 781 9.5 35559.6 -1759.0

782 9.3 35615.1 -1708.3  
 783 8.9 35622.3 -1719.9  
 784 8.8 35630.9 -1721.0  
 785 9.4 35659.8 -1737.7  
 786 9.4 35701.2 -1714.0  
 787 9.9 35713.1 -1718.0  
 788 9.2 35812.9 -1715.1  
 789 9.1 35837.3 -1714.0  
 790 9.5 35848.2 -1736.8  
 791 9.7 35901.3 -1743.6

792 10. 35921.2 -1756.7  
 793 9.0 40042.8 -1713.2  
 794 9.3 40050.6 -1741.3  
 795 9.8 40101.4 -1747.2  
 796 9.0 40105.1 -1725.1  
 797 9.1 40140.9 -1704.5  
 798 10. 40141.0 -1702.9  
 799 8.5 40147.9 -1738.5  
 800 9.8 40148.6 -1723.1  
 801 7.7 40230.5 -1759.9

802 9.3 40233.0 -1712.8  
 803 9.3 40233.4 -1710.5  
 804 9.2 40254.2 -1728.4  
 805 8.1 40257.1 -1751.0  
 806 8.5 40302.3 -1753.0  
 807 9.0 40306.0 -1716.3  
 808 10. 40319.6 -1747.6  
 809 9.5 40346.4 -1713.4  
 810 9.0 40410.8 -1732.0  
 811 9.3 40421.4 -1713.0



812 10. 40441.7 -1720.8  
 813 9.6 40442.6 -1737.7  
 814 9.0 40445.7 -1713.6  
 815 9.7 40509.6 -1755.7  
 816 6.3 40528.4 -1739.1  
 817 10. 40530.5 -1755.9  
 818 10. 40530.5 -1742.7  
 819 9.3 40533.8 -1742.7  
 820 9.7 40557.2 -1703.2  
 821 8.8 40609.1 -1702.1

822 9.0 40620.5 -1708.6  
 823 9.0 40643.5 -1711.0  
 824 9.4 40655.8 -1743.7  
 825 8.5 40711.8 -1751.0  
 826 9.5 40718.9 -1730.3  
 827 10. 40728.2 -1719.2  
 828 9.8 40736.6 -1744.0  
 829 9.1 40742.4 -1752.2  
 830 9.6 40750.3 -1728.0  
 831 9.7 40751.6 -1717.1

832 10. 40756.0 -1720.0  
 833 8.8 40852.6 -1716.1  
 834 10. 40908.9 -1749.4  
 835 9.3 41020.4 -1726.8  
 836 9.0 41024.9 -1725.5  
 837 8.4 41038.2 -1748.5  
 838 9.5 41050.6 -1710.3  
 839 8.0 41113.0 -1705.4  
 840 8.8 41121.7 -1719.9  
 841 8.2 41129.3 -1725.4

842 10. 41142.2 -1706.2  
 843 9.8 41142.5 -1716.8  
 844 9.0 41157.5 -1732.4  
 845 10. 41206.5 -1747.1  
 846 9.7 41212.9 -1700.9  
 847 9.1 41223.1 -1753.7  
 848 9.5 41223.1 -1754.4  
 849 10. 41254.3 -1745.3  
 850 9.1 41309.1 -1755.0  
 851 9.8 41310.8 -1720.5

852 9.6 41312.3 -1713.6  
 853 9.0 41322.5 -1717.3  
 854 7.2 41323.6 -1749.0  
 855 9.1 41354.9 -1725.0  
 856 7.0 41409.0 -1710.7  
 857 8.9 41413.9 -1748.7  
 858 9.9 41439.3 -1717.2  
 859 9.5 41452.2 -1736.7  
 860 9.2 41454.4 -1720.6  
 861 9.2 41456.3 -1751.4

862 9.5 41503.7 -1713.3  
 863 9.9 41509.1 -1735.6  
 864 9.0 41539.9 -1723.8  
 865 9.7 41625.4 -1749.4  
 866 10. 41650.1 -1751.0  
 867 8.5 41706.2 -1753.5  
 868 10. 41717.4 -1720.8  
 869 9.1 41723.0 -1705.4  
 870 9.3 41744.1 -1726.8  
 871 9.8 41809.7 -1733.6

872 9.5 41817.3 -1740.0  
 873 10. 41818.0 -1736.1  
 874 10. 41835.2 -1707.9  
 875 8.2 41900.7 -1731.1  
 876 9.1 41925.7 -1734.3  
 877 9.0 41947.4 -1702.3  
 878 10. 41950.6 -1725.8  
 879 10. 42000.4 -1729.9  
 880 9.1 42042.8 -1754.5  
 881 9.3 42050.5 -1722.5

882 9.5 42054.8 -1737.0  
 883 8.0 42100.6 -1726.0  
 884 9.8 42104.9 -1758.2  
 885 9.6 42106.9 -1742.4  
 886 9.8 42127.2 -1734.5  
 887 9.8 42141.2 -1704.1  
 888 9.9 42151.4 -1722.7  
 889 9.1 42159.0 -1773.9  
 890 9.4 42204.1 -1747.7  
 891 9.5 42307.8 -1733.4

892 8.5 42346.7 -1711.2  
 893 9.0 42401.4 -1739.7  
 894 9.6 42414.6 -1740.2  
 895 10. 42428.3 -1757.5  
 896 8.3 42428.9 -1712.6  
 897 9.2 42434.3 -1735.8  
 898 9.4 42508.0 -1714.3  
 899 10. 42522.2 -1735.4  
 900 8.6 42539.2 -1751.6  
 901 9.4 42550.4 -1752.4

902 8.2 42556.6 -1734.7  
 903 9.6 42636.7 -1704.2  
 904 9.5 42641.0 -1736.5  
 905 8.5 42713.2 -1746.8  
 906 10. 42744.0 -1713.2  
 907 8.1 42759.5 -1712.7  
 908 9.5 42813.7 -1743.2  
 909 9.0 42814.4 -1707.3  
 910 9.2 42829.6 -1745.5  
 911 9.5 42908.0 -1759.2

912 10. 42927.7 -1711.4  
 913 7.2 42950.8 -1744.9  
 914 9.0 42953.9 -1728.8  
 915 9.8 43003.5 -1744.2  
 916 9.9 43004.5 -1734.2  
 917 9.0 43020.9 -1750.4  
 918 9.8 43041.2 -1744.0  
 919 8.0 43119.5 -1742.2  
 920 10. 43129.2 -1713.4  
 921 7.7 43138.7 -1701.0

922 9.6 43156.1 -1704.9  
 923 9.2 43206.5 -1712.9  
 924 10. 43249.3 -1734.9  
 925 9.5 43254.9 -1737.3  
 926 9.7 43256.1 -1748.4  
 927 7.3 43313.4 -1715.0  
 928 8.5 43357.5 -1758.1  
 929 9.8 43414.7 -1742.3  
 930 9.6 43449.9 -1753.9  
 931 9.3 43502.0 -1701.6

932 9.7 43519.3 -1727.7  
 933 9.2 43551.9 -1711.4  
 934 10. 43602.9 -1745.4  
 935 9.3 43635.4 -1744.5  
 936 9.3 43705.0 -1727.0  
 937 9.2 43721.5 -1753.6  
 938 9.0 43724.8 -1741.4  
 939 9.7 43823.6 -1756.7  
 940 9.7 43823.7 -1711.2  
 941 9.7 43830.4 -1750.8

942 8.8 43834.1 -1739.1  
 943 9.5 43849.7 -1749.9  
 944 9.5 43857.9 -1756.0  
 945 8.5 43905.9 -1735.2  
 946 9.2 43928.4 -1743.2  
 947 9.5 43947.9 -1730.9  
 948 9.7 44006.9 -1743.3  
 949 9.0 44022.5 -1713.1  
 950 9.3 44028.5 -1713.1  
 951 9.1 44044.9 -1730.8

952 9.0 44047.2 -1730.6  
 953 9.2 44049.1 -1713.7  
 954 5.5 44106.0 -1712.4  
 955 9.5 44117.2 -1720.7  
 956 9.8 44122.3 -1726.2  
 957 9.5 44135.5 -1739.9  
 958 9.5 44215.7 -1709.4  
 959 9.4 44215.9 -1719.4  
 960 8.2 44229.3 -1723.7  
 961 10. 44238.4 -1746.0

962 9.8 44248.2 -1704.7  
 963 9.4 44249.3 -1734.8  
 964 9.8 44334.5 -1722.3  
 965 10. 44337.2 -1741.1  
 966 9.8 44346.6 -1712.7  
 967 9.5 44422.5 -1734.2  
 968 9.3 44433.2 -1758.5  
 969 10. 44444.0 -1706.0  
 970 9.1 44450.2 -1717.6  
 971 9.3 44457.0 -1720.7

972 9.7 44458.3 -1742.4  
 973 10. 44512.7 -1746.3  
 974 8.8 44518.2 -1702.6  
 975 9.3 44532.2 -1718.1  
 976 9.2 44552.2 -1756.7  
 977 8.7 44608.3 -1706.9  
 978 8.4 44633.9 -1712.7  
 979 9.4 44634.5 -1759.2  
 980 9.4 44652.6 -1718.8  
 981 9.8 44659.0 -1711.7

982 9.5 44710.3 -1739.2  
 983 8.9 44731.2 -1749.0  
 984 8.7 44737.2 -1714.1  
 985 9.3 44801.0 -1702.0  
 986 8.8 44807.4 -1721.0  
 987 9.4 44847.6 -1750.4  
 988 9.5 44901.7 -1740.7  
 989 9.7 44903.4 -1752.0  
 990 8.5 44906.8 -1759.7  
 991 8.8 44931.6 -1735.2

992 9.1 44934.3 -1722.5  
 993 10. 44943.2 -1713.6  
 994 6.8 44946.7 -1758.0  
 995 9.7 45028.9 -1722.3  
 996 9.3 45030.1 -1744.2  
 997 9.4 45038.3 -1719.1  
 998 9.9 45101.2 -1713.0  
 999 9.3 45113.7 -1731.4  
 1000 9.7 45119.9 -1700.1  
 1001 7.0 45141.3 -1700.3

1002 9.6 45141.6 -1736.3  
 1003 9.7 45209.5 -1742.1  
 1004 9.8 45240.8 -1755.5  
 1005 9.8 45325.9 -1731.5  
 1006 9.1 45359.8 -1705.1  
 1007 9.7 45401.0 -1701.8  
 1008 9.7 45412.4 -1734.2  
 1009 8.0 45417.8 -1748.0  
 1010 9.5 45425.0 -1727.2  
 1011 7.3 45453.5 -1745.6

1012 9.5 45454.4 -1750.0  
 1013 9.8 45521.4 -1723.8  
 1014 9.3 45628.7 -1723.2  
 1015 9.8 45725.8 -1728.3  
 1016 9.1 45747.9 -1731.6  
 1017 9.8 45753.6 -1721.1  
 1018 9.0 45822.3 -1752.1  
 1019 9.4 45846.1 -1717.9  
 1020 9.2 45928.4 -1718.3  
 1021 9.0 45939.6 -1738.4

1022 9.0 45957.9 -1700.9  
 1023 9.3 45958.8 -1728.6  
 1024 10. 50091.0 -1756.4  
 1025 9.8 50099.7 -1749.3  
 1026 10. 50025.4 -1742.8  
 1027 9.3 50038.0 -1723.7  
 1028 6.5 50041.4 -1729.5  
 1029 7.0 50116.1 -1728.6  
 1030 8.5 50125.3 -1725.2  
 1031 8.0 50207.9 -1731.3

1032 9.3 50235.2 -1758.5  
 1033 9.0 50254.0 -1722.6  
 1034 9.1 50335.5 -1713.4  
 1035 8.8 50336.0 -1712.5  
 1036 10. 50355.4 -1701.5  
 1037 9.5 50356.3 -1725.2  
 1038 9.9 50428.7 -1754.4  
 1039 9.6 50437.8 -1746.1  
 1040 9.8 50439.1 -1744.4  
 1041 8.8 50453.6 -1713.7

1042 9.4 50505.0 -1750.2  
 1043 9.7 50519.2 -1717.8  
 1044 9.4 50534.0 -1753.7  
 1045 9.0 50541.4 -1726.4  
 1046 8.5 50604.2 -1737.7  
 1047 8.6 50607.2 -1737.8  
 1048 10. 50624.4 -1715.1  
 1049 9.4 50624.6 -1721.2  
 1050 9.9 50632.9 -1728.8  
 1051 8.2 50650.2 -1746.1

1052 8.0 50655.7 -1705.0  
 1053 9.6 50706.2 -1701.1  
 1054 7.3 50706.7 -1716.5  
 1055 9.8 50720.0 -1704.2  
 1056 9.7 50750.4 -1746.5  
 1057 9.8 50755.2 -1734.8  
 1058 9.2 50758.2 -1745.6  
 1059 9.2 50803.8 -1723.9  
 1060 9.8 50805.9 -1703.2  
 1061 9.8 50808.5 -1721.8

1062 9.8 50813.4 -1723.1  
 1063 10. 50858.9 -1725.4  
 1064 9.8 50922.2 -1743.4  
 1065 10. 50952.6 -1733.0  
 1066 9.8 51002.0 -1754.0  
 1067 9.7 51002.0 -1707.2  
 1068 9.4 51018.9 -1714.1  
 1069 7.0 51021.7 -1718.4  
 1070 9.8 51029.0 -1727.5  
 1071 8.9 51040.0 -1718.8

1072 8.8 51040.4 -1736.9  
 1073 7.0 51057.6 -1755.7  
 1074 10. 51107.4 -1704.6  
 1075 10. 51121.5 -1729.5  
 1076 9.5 51122.3 -1731.1  
 1077 9.5 51125.9 -1701.2  
 1078 8.3 51140.6 -1731.8  
 1079 9.1 51145.0 -1728.9  
 1080 9.1 51210.1 -1753.4  
 1081 8.0 51220.3 -1743.3

1082 9.3 51232.1 -1732.0  
 1083 8.9 51235.0 -1707.6  
 1084 9.0 51249.3 -1716.1  
 1085 8.9 51259.2 -1754.0  
 1086 9.8 51300.7 -1737.3  
 1087 9.0 51325.2 -1714.0  
 1088 9.9 51329.3 -1737.2  
 1089 8.5 51350.8 -1750.4  
 1090 9.6 51355.1 -1728.1  
 1091 9.5 51419.9 -1739.3

1092 9.3 51422.6 -1730.6  
 1093 10. 51428.1 -1701.9  
 1094 9.4 51430.2 -1733.2  
 1095 9.6 51433.7 -1746.4  
 1096 9.0 51449.5 -1728.1  
 1097 9.6 51512.0 -1713.9  
 1098 6.8 51530.0 -1745.1  
 1099 10. 51532.1 -1704.0  
 1100 9.3 51537.5 -1748.6  
 1101 9.8 51610.6 -1740.0

1102 9.8 51610.9 -1715.5  
 1103 8.5 51613.5 -1724.9  
 1104 9.3 51614.8 -1716.6  
 1105 9.8 51618.5 -1705.7  
 1106 10. 51629.1 -1717.1  
 1107 9.0 51651.3 -1717.5  
 1108 8.5 51641.9 -1721.3  
 1109 9.3 51651.9 -1719.7  
 1110 9.4 51652.4 -1721.0  
 1111 9.6 51708.4 -1740.8

1112 9.3 51719.6 -1730.5  
 1113 9.3 51724.5 -1701.2  
 1114 9.7 51728.5 -1746.8  
 1115 9.1 51758.5 -1757.2  
 1116 10. 51800.4 -1743.4  
 1117 6.3 51801.6 -1706.7  
 1118 9.6 51804.2 -1727.9  
 1119 10. 51819.4 -1740.0  
 1120 8.6 51824.3 -1714.8  
 1121 10. 51837.7 -1708.1

1122 9.8 51845.4 -1721.7  
 1123 10. 51846.8 -1711.4  
 1124 9.2 51901.8 -1739.5  
 1125 10. 51928.7 -1733.4  
 1126 10. 51944.3 -1737.2  
 1127 9.7 51959.4 -1745.6  
 1128 9.5 52001.5 -1746.6  
 1129 10. 52003.6 -1707.4  
 1130 9.4 52010.6 -1701.2  
 1131 9.1 52011.7 -1700.5

1132 9.1 52033.3 -1736.6  
 1133 9.5 52034.8 -1724.3  
 1134 9.1 52040.7 -1718.5  
 1135 9.1 52041.5 -1745.4  
 1136 9.8 52058.9 -1717.8  
 1137 9.4 52105.4 -1744.6  
 1138 10. 52109.9 -1758.2  
 1139 10. 52121.2 -1737.5  
 1140 9.8 52125.8 -1747.1  
 1141 9.5 52129.7 -1721.2

1142 9.1 52209.9 -1716.2  
 1143 9.3 52211.1 -1726.9  
 1144 9.5 52217.2 -1720.8  
 1145 9.3 52234.1 -1723.7  
 1146 9.9 52234.2 -1750.6  
 1147 8.0 52235.0 -1733.0  
 1148 8.1 52243.1 -1726.4  
 1149 10. 52250.7 -1740.8  
 1150 9.3 52255.6 -1758.2  
 1151 9.6 52312.7 -1741.5

1152 8.8 52317.3 -1722.7  
 1153 9.9 52333.7 -1726.7  
 1154 9.8 52338.7 -1729.8  
 1155 9.5 5239.3 -1754.4  
 1156 9.8 52427.7 -1706.5  
 1157 9.3 52453.7 -1738.8  
 1158 9.0 52453.7 -1705.0  
 1159 9.0 52456.7 -1727.1  
 1160 9.5 52504.2 -1766.7  
 1161 9.6 52521.6 -1717.2

1162 8.0 52536.3 -1752.5  
 1163 10. 52540.9 -1737.1  
 1164 8.9 52541.1 -1740.4  
 1165 9.1 52611.1 -1747.9  
 1166 3.0 52620.2 -1750.6  
 1167 8.0 52635.0 -1721.9  
 1168 9.6 52638.8 -1702.8  
 1169 9.8 52656.9 -1748.1  
 1170 8.2 52716.4 -1753.2  
 1171 9.3 52718.0 -1732.3



-17 1172

5h27m

-17 1531

6h26m

|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 1172 | 9.5 | 52752.1 | -1700.0 | 1262 | 10. | 54407.9 | -1709.9 | 1352 | 9.1 | 55948.0 | -1734.5 | 1442 | 9.8 | 61248.3 | -1730.8 |
| 1173 | 8.8 | 52752.8 | -1715.3 | 1263 | 9.0 | 54415.3 | -1709.4 | 1353 | 9.8 | 60018.5 | -1734.2 | 1443 | 9.8 | 61251.6 | -1754.2 |
| 1174 | 8.4 | 52811.4 | -1739.1 | 1264 | 9.5 | 54421.0 | -1716.6 | 1354 | 9.3 | 60027.7 | -1703.0 | 1444 | 9.4 | 61305.5 | -1721.2 |
| 1175 | 10. | 52818.9 | -1717.9 | 1265 | 9.4 | 54447.1 | -1749.4 | 1355 | 9.7 | 60028.4 | -1743.7 | 1445 | 9.3 | 61313.6 | -1727.4 |
| 1176 | 9.6 | 52835.3 | -1724.0 | 1266 | 9.8 | 54502.4 | -1710.4 | 1356 | 9.8 | 60028.8 | -1732.6 | 1446 | 7.0 | 61316.2 | -1728.1 |
| 1177 | 10. | 52837.0 | -1720.5 | 1267 | 8.0 | 54504.7 | -1756.7 | 1357 | 9.8 | 60033.4 | -1754.9 | 1447 | 8.5 | 61321.8 | -1730.8 |
| 1178 | 9.8 | 52844.4 | -1755.6 | 1268 | 10. | 54520.8 | -1731.6 | 1358 | 10. | 60041.6 | -1722.1 | 1448 | 10. | 61333.6 | -1724.7 |
| 1179 | 9.1 | 52853.3 | -1718.5 | 1269 | 8.7 | 54533.9 | -1703.1 | 1359 | 9.2 | 60045.2 | -1745.1 | 1449 | 8.0 | 61335.2 | -1737.7 |
| 1180 | 9.7 | 52855.8 | -1730.3 | 1270 | 9.5 | 54535.3 | -1747.7 | 1360 | 8.5 | 60052.7 | -1747.9 | 1450 | 8.5 | 61357.8 | -1712.9 |
| 1181 | 9.5 | 52901.6 | -1716.4 | 1271 | 7.8 | 54547.4 | -1735.6 | 1361 | 9.1 | 60115.8 | -1731.2 | 1451 | 9.2 | 61410.0 | -1757.1 |
| 1182 | 9.2 | 52909.0 | -1745.4 | 1272 | 9.0 | 54559.1 | -1740.0 | 1362 | 9.0 | 60116.0 | -1735.9 | 1452 | 8.9 | 61417.8 | -1751.0 |
| 1183 | 10. | 52921.9 | -1711.9 | 1273 | 9.1 | 54611.3 | -1746.6 | 1363 | 9.3 | 60125.2 | -1718.1 | 1453 | 9.8 | 61422.3 | -1731.2 |
| 1184 | 10. | 52936.9 | -1702.2 | 1274 | 9.9 | 54611.9 | -1716.7 | 1364 | 9.0 | 60126.4 | -1716.7 | 1454 | 9.6 | 61425.4 | -1732.9 |
| 1185 | 9.5 | 53018.8 | -1755.6 | 1275 | 9.8 | 54619.2 | -1744.3 | 1365 | 9.2 | 60128.0 | -1719.6 | 1455 | 9.0 | 61428.0 | -1755.0 |
| 1186 | 8.5 | 53027.3 | -1706.6 | 1276 | 9.7 | 54622.4 | -1754.6 | 1366 | 9.1 | 60135.3 | -1752.8 | 1456 | 9.0 | 61434.7 | -1709.7 |
| 1187 | 9.0 | 53035.7 | -1716.3 | 1277 | 8.3 | 54649.7 | -1748.7 | 1367 | 9.5 | 60150.8 | -1712.7 | 1457 | 8.6 | 61436.4 | -1745.9 |
| 1188 | 9.6 | 53055.8 | -1741.0 | 1278 | 8.6 | 54700.5 | -1718.1 | 1368 | 9.5 | 60158.9 | -1750.8 | 1458 | 8.0 | 61440.5 | -1753.7 |
| 1189 | 9.3 | 53058.7 | -1717.4 | 1279 | 10. | 54730.8 | -1725.3 | 1369 | 9.4 | 60202.3 | -1740.2 | 1459 | 9.3 | 61442.4 | -1732.5 |
| 1190 | 9.8 | 53059.6 | -1713.9 | 1280 | 9.2 | 54740.4 | -1712.4 | 1370 | 9.5 | 60204.8 | -1713.1 | 1460 | 9.4 | 61451.7 | -1748.6 |
| 1191 | 9.0 | 53117.3 | -1731.5 | 1281 | 8.8 | 54743.3 | -1718.2 | 1371 | 9.0 | 60205.5 | -1719.3 | 1461 | 8.9 | 61454.2 | -1727.4 |
| 1192 | 9.2 | 53119.8 | -1754.2 | 1282 | 10. | 54750.4 | -1756.1 | 1372 | 9.3 | 60212.1 | -1720.9 | 1462 | 10. | 61509.4 | -1748.3 |
| 1193 | 9.9 | 53137.6 | -1709.4 | 1283 | 9.5 | 54751.1 | -1752.5 | 1373 | 9.5 | 60215.8 | -1703.5 | 1463 | 9.9 | 61540.6 | -1744.3 |
| 1194 | 10. | 53149.5 | -1750.1 | 1284 | 8.2 | 54805.4 | -1749.4 | 1374 | 10. | 60232.7 | -1744.5 | 1464 | 9.4 | 61548.6 | -1745.6 |
| 1195 | 9.9 | 53156.6 | -1740.7 | 1285 | 9.2 | 54808.6 | -1743.9 | 1375 | 9.1 | 60235.2 | -1757.7 | 1465 | 9.2 | 61559.4 | -1753.3 |
| 1196 | 7.5 | 53209.1 | -1700.4 | 1286 | 10. | 54816.8 | -1741.5 | 1376 | 9.2 | 60243.3 | -1713.0 | 1466 | 9.3 | 61613.6 | -1750.1 |
| 1197 | 8.0 | 53220.4 | -1709.2 | 1287 | 9.9 | 54830.2 | -1703.2 | 1377 | 7.5 | 60251.4 | -1716.0 | 1467 | 3.0 | 61618.9 | -1753.2 |
| 1198 | 8.3 | 53244.9 | -1755.1 | 1288 | 9.0 | 54837.8 | -1700.3 | 1378 | 9.4 | 60310.9 | -1725.8 | 1468 | 9.0 | 61640.4 | -1707.4 |
| 1199 | 6.7 | 53253.5 | -1756.0 | 1289 | 10. | 54838.6 | -1714.0 | 1379 | 10. | 60311.8 | -1743.4 | 1469 | 9.4 | 61647.8 | -1731.3 |
| 1200 | 8.3 | 53254.1 | -1754.8 | 1290 | 9.7 | 54839.5 | -1716.1 | 1380 | 10. | 60315.5 | -1745.8 | 1470 | 10. | 61700.1 | -1703.4 |
| 1201 | 9.8 | 53256.0 | -1727.0 | 1291 | 10. | 54848.6 | -1738.5 | 1381 | 10. | 60316.6 | -1745.2 | 1471 | 10. | 61705.0 | -1707.3 |
| 1202 | 9.3 | 53257.2 | -1733.5 | 1292 | 9.1 | 54907.0 | -1757.0 | 1382 | 10. | 60319.1 | -1733.9 | 1472 | 10. | 61714.5 | -1700.7 |
| 1203 | 9.0 | 53258.0 | -1756.9 | 1293 | 9.4 | 54908.9 | -1713.4 | 1383 | 9.5 | 60332.5 | -1701.0 | 1473 | 8.8 | 61733.6 | -1722.0 |
| 1204 | 9.4 | 53277.7 | -1707.4 | 1294 | 9.5 | 54910.1 | -1717.5 | 1384 | 9.1 | 60335.0 | -1722.8 | 1474 | 9.6 | 61734.5 | -1740.4 |
| 1205 | 9.1 | 53346.9 | -1742.9 | 1295 | 10. | 54919.3 | -1732.2 | 1385 | 8.9 | 60400.8 | -1731.8 | 1475 | 9.6 | 61734.9 | -1704.1 |
| 1206 | 8.3 | 53346.3 | -1711.2 | 1296 | 10. | 54920.4 | -1734.6 | 1386 | 8.9 | 60400.8 | -1711.0 | 1476 | 8.9 | 61746.2 | -1748.6 |
| 1207 | 8.9 | 53351.9 | -1701.9 | 1297 | 9.3 | 54932.7 | -1720.4 | 1387 | 9.0 | 60424.6 | -1737.4 | 1477 | 9.4 | 61747.5 | -1726.6 |
| 1208 | 9.4 | 53405.4 | -1723.1 | 1298 | 8.4 | 54944.9 | -1754.5 | 1388 | 9.5 | 60433.3 | -1744.4 | 1478 | 10. | 61756.0 | -1709.4 |
| 1209 | 9.1 | 53422.8 | -1706.7 | 1299 | 9.8 | 54946.8 | -1704.1 | 1389 | 10. | 60433.7 | -1726.7 | 1479 | 9.3 | 61802.5 | -1726.6 |
| 1210 | 10. | 53443.1 | -1719.2 | 1300 | 8.0 | 54952.0 | -1715.1 | 1390 | 9.4 | 60457.2 | -1732.5 | 1480 | 10. | 61808.3 | -1719.0 |
| 1211 | 8.0 | 53506.9 | -1747.7 | 1301 | 10. | 54955.5 | -1758.1 | 1391 | 9.5 | 60458.1 | -1734.0 | 1481 | 9.7 | 61820.5 | -1743.0 |
| 1212 | 10. | 53509.7 | -1749.0 | 1302 | 9.0 | 55000.5 | -1718.1 | 1392 | 9.3 | 60500.0 | -1700.2 | 1482 | 9.1 | 61823.9 | -1734.8 |
| 1213 | 9.0 | 53526.5 | -1717.7 | 1303 | 8.9 | 55001.3 | -1751.2 | 1393 | 8.5 | 60513.6 | -1724.6 | 1483 | 9.1 | 61839.6 | -1745.9 |
| 1214 | 6.0 | 53550.7 | -1736.4 | 1304 | 9.2 | 55009.2 | -1726.0 | 1394 | 9.8 | 60519.1 | -1739.5 | 1484 | 10. | 61842.9 | -1753.7 |
| 1215 | 8.1 | 53607.7 | -1705.3 | 1305 | 9.7 | 55010.4 | -1749.5 | 1395 | 9.8 | 60558.7 | -1709.1 | 1485 | 9.4 | 61842.1 | -1751.0 |
| 1216 | 8.9 | 53616.3 | -1751.9 | 1306 | 9.7 | 55022.9 | -1741.8 | 1396 | 10. | 60602.9 | -1735.7 | 1486 | 10. | 61934.3 | -1707.1 |
| 1217 | 10. | 53620.0 | -1737.9 | 1307 | 9.5 | 55039.3 | -1731.9 | 1397 | 9.5 | 60604.5 | -1758.6 | 1487 | 9.8 | 61948.2 | -1719.6 |
| 1218 | 9.0 | 53624.1 | -1740.7 | 1308 | 10. | 55104.6 | -1739.4 | 1398 | 6.5 | 60623.3 | -1743.7 | 1488 | 9.5 | 61948.3 | -1729.6 |
| 1219 | 9.4 | 53630.7 | -1744.2 | 1309 | 9.0 | 55108.8 | -1708.4 | 1399 | 9.0 | 60623.8 | -1712.3 | 1489 | 9.5 | 61948.5 | -1747.1 |
| 1220 | 10. | 53631.2 | -1714.5 | 1310 | 9.8 | 55119.1 | -1753.2 | 1400 | 9.2 | 60630.4 | -1755.9 | 1490 | 9.1 | 61958.4 | -1750.6 |
| 1221 | 9.1 | 53634.3 | -1751.5 | 1311 | 10. | 55129.8 | -1719.4 | 1401 | 9.6 | 60632.7 | -1727.4 | 1491 | 9.1 | 62016.4 | -1750.3 |
| 1222 | 10. | 53700.2 | -1705.5 | 1312 | 9.2 | 55132.8 | -1724.8 | 1402 | 9.4 | 60641.4 | -1700.2 | 1492 | 9.5 | 62021.6 | -1724.0 |
| 1223 | 9.8 | 53706.0 | -1759.5 | 1313 | 9.4 | 55142.5 | -1741.5 | 1403 | 9.4 | 60649.6 | -1746.7 | 1493 | 9.6 | 62022.1 | -1710.6 |
| 1224 | 9.8 | 53717.5 | -1716.7 | 1314 | 9.4 | 55158.4 | -1726.3 | 1404 | 10. | 60652.8 | -1731.9 | 1494 | 9.0 | 62028.7 | -1754.5 |
| 1225 | 9.3 | 53737.9 | -1735.2 | 1315 | 9.5 | 55202.3 | -1741.0 | 1405 | 9.1 | 60742.1 | -1701.4 | 1495 | 9.1 | 62032.1 | -1734.1 |
| 1226 | 9.1 | 53743.2 | -1704.0 | 1316 | 9.8 | 55220.2 | -1743.4 | 1406 | 9.8 | 60746.0 | -1744.7 | 1496 | 9.4 | 62034.5 | -1721.6 |
| 1227 | 10. | 53749.6 | -1718.7 | 1317 | 10. | 55225.4 | -1708.5 | 1407 | 8.2 | 60753.2 | -1726.3 | 1497 | 9.1 | 62036.5 | -1718.9 |
| 1228 | 9.8 | 53807.4 | -1712.4 | 1318 | 10. | 55228.7 | -1733.7 | 1408 | 9.0 | 60759.4 | -1724.8 | 1498 | 8.5 | 62047.4 | -1735.0 |
| 1229 | 9.2 | 53818.0 | -1749.8 | 1319 | 8.8 | 55253.4 | -1755.3 | 1409 | 8.7 | 60759.5 | -1747.4 | 1499 | 9.5 | 62052.7 | -1707.5 |
| 1230 | 9.0 | 53820.1 | -1729.4 | 1320 | 9.3 | 55259.3 | -1705.8 | 1410 | 9.2 | 60800.9 | -1726.7 | 1500 | 9.6 | 62104.7 | -1747.9 |
| 1231 | 9.0 | 53825.6 | -1719.1 | 1321 | 8.8 | 55321.9 | -1705.8 | 1411 | 9.8 | 60807.1 | -1705.2 | 1501 | 9.8 | 62122.4 | -1756.2 |
| 1232 | 10. | 53826.4 | -1712.8 | 1322 | 9.8 | 55350.8 | -1729.2 | 1412 | 9.8 | 60815.4 | -1749.7 | 1502 | 9.1 | 62127.9 | -1732.7 |
| 1233 | 9.5 | 53901.5 | -1743.8 | 1323 | 10. | 55352.0 | -1745.6 | 1413 | 9.3 | 60824.2 | -1740.7 | 1503 | 9.9 | 62132.5 | -1718.4 |
| 1234 | 10. | 53916.6 | -1723.1 | 1324 | 10. | 55411.8 | -1738.9 | 1414 | 10. | 60852.7 | -1727.8 | 1504 | 10. | 62153.8 | -1727.5 |
| 1235 | 8.8 | 53920.8 | -1728.4 | 1325 | 9.8 | 55419.7 | -1747.3 | 1415 | 9.6 | 60919.2 | -1743.4 | 1505 | 8.9 | 62158.3 | -1712.8 |
| 1236 | 9.8 | 53927.2 | -1745.0 | 1326 | 9.5 | 55427.7 | -1723.0 | 1416 | 9.4 | 60922.8 | -1730.9 | 1506 | 6.3 | 62211.8 | -1722.4 |
| 1237 | 9.4 | 53932.7 | -1713.9 | 1327 | 8.3 | 55447.9 | -1730.8 | 1417 | 9.5 | 60929.4 | -1746.1 | 1507 | 9.1 | 62227.8 | -1739.5 |
| 1238 | 10. | 54013.1 | -1742.3 | 1328 | 10. | 55504.2 | -1701.7 | 1418 | 9.3 | 60933.1 | -1704.5 | 1508 | 9.5 | 62233.6 | -1731.6 |
| 1239 | 9.2 | 54016.3 | -1747.1 | 1329 | 9.0 | 55514.1 | -1718.7 | 1419 | 9.4 | 60944.0 | -1756.4 | 1509 | 9.4 | 62241.8 | -1710.3 |
| 1240 | 10. | 54022.3 | -1706.1 | 1330 | 9.3 | 55534.1 | -1707.5 | 1420 | 9.1 | 60944.3 | -1731.3 | 1510 | 9.1 | 62255.0 | -1757.2 |
| 1241 | 9.4 | 54022.8 | -1710.8 | 1331 | 9.2 | 55537.8 | -1751.4 | 1421 | 8.3 | 60953.4 | -1753.8 | 1511 | 9.9 | 62255.6 | -1704.8 |
| 1242 | 9.4 | 54044.4 | -1755.1 | 1332 | 10. | 55556.5 | -1715.7 | 1422 | 9.4 | 61000.9 | -1726.2 | 1512 | 8.0 | 62257.5 | -1743.2 |
| 1243 | 9.6 | 54109.9 | -1742.4 | 1333 | 9.3 | 55600.6 | -1705.5 | 1423 | 8.5 | 61007.2 | -1727.5 | 1513 | 9.0 | 62326.7 | -1717.0 |
| 1244 | 9.5 | 54113.1 | -1739.8 | 1334 | 8.6 | 55605.7 | -1751.1 | 1424 | 9.2 | 61009.2 | -1706.5 | 1514 | 9.3 | 62346.8 | -1712.7 |
| 1245 | 9.8 | 54121.8 | -1730.4 | 1335 | 9.2 | 55620.5 | -1735.9 | 1425 | 9.5 | 61019.6 | -1723.2 | 1515 | 8.4 | 62417.0 | -1749.0 |
| 1246 | 9.8 | 54130.9 | -1741.3 | 1336 | 9.5 | 55621.1 | -1750.2 | 1426 | 9.8 | 61043.9 | -1735   |      |     |         |         |



1532 9.0 62647.5 -1722.6  
 1533 8.7 62701.0 -1758.6  
 1534 9.4 62709.6 -1746.0  
 1535 9.4 62722.1 -1745.5  
 1536 9.6 62723.2 -1730.6  
 1537 10.1 62731.2 -1700.4  
 1538 9.5 62737.5 -1759.9  
 1539 9.5 62757.9 -1738.5  
 1540 8.8 62808.4 -1715.7  
 1541 9.3 62815.3 -1711.5

1542 8.5 62830.0 -1754.9  
 1543 9.1 62851.6 -1739.3  
 1544 9.5 62854.9 -1743.6  
 1545 9.5 62854.9 -1746.0  
 1546 9.8 62908.8 -1740.4  
 1547 9.2 62923.4 -1746.4  
 1548 9.8 62936.9 -1735.0  
 1549 9.9 62936.9 -1715.2  
 1550 9.4 63008.7 -1756.6  
 1551 9.2 63013.0 -1759.5

1552 9.5 63013.6 -1750.1  
 1553 9.4 63018.0 -1719.6  
 1554 8.8 63019.0 -1706.8  
 1555 9.3 63025.6 -1743.1  
 1556 9.1 63027.6 -1705.9  
 1557 10.1 63041.8 -1712.5  
 1558 10.1 63042.4 -1719.2  
 1559 9.8 63043.5 -1739.6  
 1560 8.7 63054.0 -1749.6  
 1561 10.1 63101.9 -1724.3

1562 9.8 63102.8 -1738.9  
 1563 9.8 63129.7 -1716.2  
 1564 8.3 63131.9 -1705.8  
 1565 9.8 63146.0 -1757.1  
 1566 9.1 63212.6 -1725.7  
 1567 9.0 63215.5 -1750.7  
 1568 8.8 63216.1 -1748.2  
 1569 10.1 63231.1 -1747.6  
 1570 9.1 63237.2 -1729.1  
 1571 9.8 63246.6 -1713.3

1572 9.0 63253.8 -1711.5  
 1573 9.0 63256.9 -1724.5  
 1574 9.0 63301.6 -1725.4  
 1575 9.1 63311.9 -1704.2  
 1576 10.1 63324.9 -1728.0  
 1577 9.2 63331.1 -1750.4  
 1578 7.8 63337.7 -1709.5  
 1579 9.6 63346.3 -1700.1  
 1580 10.1 63407.4 -1736.1  
 1581 9.9 63429.2 -1754.5

1582 8.4 63431.0 -1738.8  
 1583 8.8 63447.5 -1750.0  
 1584 8.5 63509.1 -1723.7  
 1585 9.9 63509.3 -1706.1  
 1586 9.5 63516.4 -1749.0  
 1587 8.9 63523.8 -1743.7  
 1588 8.8 63533.8 -1738.4  
 1589 9.9 63538.0 -1756.6  
 1590 9.1 63549.0 -1720.3  
 1591 8.9 63551.1 -1714.1

1592 8.8 63605.0 -1739.7  
 1593 8.8 63618.9 -1714.1  
 1594 9.4 63625.2 -1741.4  
 1595 8.8 63640.8 -1731.3  
 1596 9.7 6365.1 -1759.0  
 1597 9.8 63655.5 -1754.1  
 1598 8.7 63701.9 -1700.9  
 1599 9.4 63705.0 -1752.4  
 1600 9.5 63705.7 -1730.2  
 1601 9.6 63734.2 -1747.5

1602 9.5 63738.4 -1714.4  
 1603 8.2 63756.1 -1741.8  
 1604 8.8 63819.5 -1758.2  
 1605 8.6 63823.1 -1717.4  
 1606 9.8 63825.1 -1739.2  
 1607 9.0 63826.9 -1736.5  
 1608 9.6 63840.9 -1735.0  
 1609 10.1 63849.1 -1758.0  
 1610 8.9 63902.1 -1742.0  
 1611 7.5 63913.8 -1701.3

1612 10.1 63918.5 -1758.3  
 1613 9.1 63929.5 -1707.3  
 1614 9.8 63948.9 -1716.1  
 1615 9.8 63949.2 -1736.9  
 1616 9.8 63954.3 -1700.1  
 1617 9.5 64010.2 -1755.8  
 1618 9.4 64012.5 -1717.4  
 1619 8.7 64018.3 -1731.7  
 1620 9.0 64018.4 -1735.5  
 1621 9.7 64019.3 -1719.6

1622 9.7 64041.3 -1724.4  
 1623 9.7 64042.3 -1724.4  
 1624 9.0 64042.7 -1755.1  
 1625 9.4 64107.8 -1749.7  
 1626 7.0 64110.7 -1721.0  
 1627 9.3 64112.1 -1700.7  
 1628 9.5 64118.3 -1701.8  
 1629 9.8 64122.5 -1756.6  
 1630 9.3 64141.9 -1753.8  
 1631 7.8 64142.7 -1704.2

1632 9.5 64150.2 -1704.1  
 1633 9.8 64151.9 -1749.3  
 1634 8.9 64223.2 -1706.3  
 1635 9.7 64227.8 -1753.3  
 1636 9.3 64252.9 -1752.8  
 1637 9.2 64303.5 -1740.1  
 1638 9.3 64305.6 -1721.5  
 1639 8.8 64307.5 -1733.9  
 1640 9.8 64315.8 -1708.1  
 1641 8.8 64321.1 -1724.5

1642 9.1 64321.9 -1714.0  
 1643 9.4 64336.9 -1750.0  
 1644 9.0 64347.2 -1704.9  
 1645 7.3 64350.3 -1707.3  
 1646 9.4 64406.0 -1758.1  
 1647 9.7 64407.4 -1702.0  
 1648 9.8 64421.0 -1756.0  
 1649 8.7 64421.3 -1708.1  
 1650 8.0 64434.0 -1741.1  
 1651 8.7 64458.9 -1752.4

1652 9.8 64506.3 -1733.0  
 1653 9.8 64516.8 -1732.1  
 1654 8.3 64529.3 -1704.3  
 1655 9.4 64531.1 -1725.9  
 1656 9.2 64535.8 -1707.6  
 1657 10.1 64559.7 -1751.0  
 1658 9.3 64600.3 -1732.6  
 1659 9.4 64600.8 -1722.1  
 1660 9.1 64615.0 -1741.0  
 1661 9.2 64631.7 -1707.5

1662 9.8 64633.1 -1734.3  
 1663 8.7 64634.2 -1726.9  
 1664 10.1 64700.6 -1716.1  
 1665 9.5 64711.8 -1706.5  
 1666 9.8 64721.8 -1732.7  
 1667 10.1 64733.3 -1722.9  
 1668 8.2 64740.9 -1743.6  
 1669 9.8 64744.5 -1707.9  
 1670 9.4 64753.6 -1724.1  
 1671 9.8 64755.7 -1754.8

1672 9.2 64801.8 -1729.8  
 1673 8.0 64810.6 -1744.1  
 1674 10.1 64821.7 -1727.4  
 1675 9.2 64827.6 -1700.6  
 1676 9.3 64829.2 -1738.4  
 1677 9.4 64834.7 -1727.1  
 1678 10.1 64846.5 -1722.0  
 1679 8.3 64848.5 -1701.7  
 1680 9.5 64857.3 -1751.5  
 1681 9.3 64859.8 -1740.7

1682 9.4 64901.2 -1726.3  
 1683 9.5 64911.3 -1724.3  
 1684 9.3 64915.4 -1748.9  
 1685 10.1 64929.2 -1706.5  
 1686 10.1 64937.0 -1716.5  
 1687 9.8 64946.9 -1755.0  
 1688 10.1 64948.8 -1749.0  
 1689 8.7 64948.8 -1700.7  
 1690 9.4 64951.5 -1715.5  
 1691 9.8 64952.3 -1754.3

1692 9.8 64958.2 -1755.8  
 1693 9.1 65001.0 -1722.8  
 1694 9.8 65001.9 -1715.2  
 1695 10.1 65015.6 -1747.5  
 1696 10.1 65024.1 -1719.4  
 1697 9.8 65028.8 -1746.7  
 1698 9.5 65030.6 -1700.5  
 1699 8.1 65042.6 -1722.4  
 1700 10.1 65049.3 -1706.7  
 1701 9.8 65055.5 -1717.5

1702 10.1 65114.5 -1741.1  
 1703 9.5 65123.4 -1713.7  
 1704 9.8 65134.7 -1748.6  
 1705 8.0 65148.6 -1735.0  
 1706 9.0 65149.3 -1752.5  
 1707 9.3 65155.6 -1704.8  
 1708 9.4 65206.1 -1749.3  
 1709 8.2 65222.2 -1726.0  
 1710 10.1 65224.7 -1713.8  
 1711 9.8 65225.1 -1735.0

1712 9.9 65237.4 -1712.2  
 1713 9.8 65239.3 -1744.4  
 1714 8.7 65249.2 -1728.5  
 1715 10.1 65258.2 -1728.8  
 1716 9.7 65303.3 -1704.0  
 1717 9.3 65306.9 -1737.5  
 1718 9.6 65308.2 -1756.4  
 1719 9.8 65310.9 -1750.3  
 1720 10.1 65311.1 -1744.9  
 1721 9.5 65311.2 -1728.1

1722 9.4 65328.6 -1722.3  
 1723 10.1 65331.0 -1727.9  
 1724 9.5 65331.5 -1756.5  
 1725 9.8 65343.4 -1715.0  
 1726 10.1 65356.9 -1735.7  
 1727 9.2 65358.8 -1752.1  
 1728 10.1 65434.4 -1758.2  
 1729 8.8 65444.6 -1711.7  
 1730 9.2 65508.6 -1743.0  
 1731 9.1 65511.4 -1755.7

1732 9.8 65522.9 -1737.1  
 1733 7.7 65531.8 -1726.2  
 1734 9.8 65532.7 -1742.5  
 1735 8.8 65532.8 -1709.2  
 1736 9.1 65534.9 -1707.9  
 1737 8.8 65536.7 -1729.6  
 1738 9.3 65552.5 -1721.5  
 1739 10.1 65554.3 -1704.5  
 1740 9.5 65604.5 -1700.7  
 1741 9.5 65606.4 -1710.7

1742 9.0 65611.6 -1734.4  
 1743 7.8 65615.0 -1722.1  
 1744 9.8 65617.2 -1717.3  
 1745 9.8 65621.0 -1722.3  
 1746 10.1 65624.4 -1713.4  
 1747 10.1 65625.2 -1717.6  
 1748 9.2 65636.1 -1723.9  
 1749 9.7 65639.1 -1702.5  
 1750 10.1 65700.3 -1732.9  
 1751 9.5 65709.8 -1749.9

1752 9.2 65721.9 -1716.0  
 1753 9.8 65725.9 -1740.3  
 1754 9.5 65730.2 -1707.3  
 1755 9.6 65730.6 -1744.6  
 1756 9.1 65739.4 -1713.6  
 1757 9.8 65740.4 -1711.6  
 1758 9.3 65742.3 -1709.4  
 1759 9.3 65752.4 -1723.1  
 1760 8.3 65803.4 -1711.8  
 1761 8.5 65823.2 -1733.6

1762 10.1 65823.8 -1729.0  
 1763 9.8 65824.8 -1721.4  
 1764 9.3 65827.3 -1708.2  
 1765 9.9 65841.9 -1724.9  
 1766 8.9 65842.1 -1723.8  
 1767 9.5 65846.5 -1753.3  
 1768 9.5 65853.4 -1715.3  
 1769 9.7 65856.6 -1749.3  
 1770 9.7 65856.9 -1736.0  
 1771 9.8 65905.6 -1723.4

1772 9.7 65909.8 -1710.9  
 1773 9.6 65910.9 -1718.7  
 1774 9.4 65911.7 -1708.0  
 1775 9.8 65930.6 -1736.1  
 1776 9.6 65954.0 -1721.3  
 1777 9.8 65959.2 -1701.9  
 1778 9.5 70000.7 -1730.0  
 1779 10.1 70005.3 -1753.8  
 1780 10.1 70012.4 -1735.2  
 1781 10.1 70029.8 -1721.4

1782 9.2 70034.8 -1723.6  
 1783 10.1 70038.1 -1735.2  
 1784 9.6 70040.2 -1769.3  
 1785 9.2 70050.7 -1747.9  
 1786 9.9 70121.3 -1756.8  
 1787 9.8 70126.9 -1703.3  
 1788 9.6 70131.4 -1708.7  
 1789 9.0 70139.6 -1720.0  
 1790 9.3 70140.3 -1738.4  
 1791 9.2 70143.4 -1733.4

1792 8.7 70159.5 -1720.1  
 1793 9.3 70200.9 -1748.4  
 1794 9.5 70204.7 -1708.5  
 1795 9.0 70207.8 -1726.3  
 1796 8.7 70208.3 -1746.3  
 1797 9.5 70210.0 -1727.0  
 1798 9.0 70211.0 -1723.6  
 1799 9.4 70223.8 -1715.4  
 1800 9.3 70224.7 -1702.5  
 1801 7.8 70228.8 -1756.7

1802 9.8 70239.5 -1712.5  
 1803 9.4 70251.0 -1723.7  
 1804 10.1 70258.2 -1734.8  
 1805 9.8 70259.3 -1753.6  
 1806 9.6 70301.4 -1721.5  
 1807 9.8 70307.2 -1734.8  
 1808 9.2 70312.1 -1731.7  
 1809 9.0 70325.1 -1727.7  
 1810 9.5 70326.0 -1700.0  
 1811 9.0 70331.3 -1739.1

1812 9.8 70331.6 -1701.0  
 1813 9.5 70332.7 -1713.0  
 1814 9.8 70339.3 -1729.7  
 1815 9.0 70344.6 -1759.3  
 1816 9.5 70345.4 -1747.9  
 1817 9.7 70351.4 -1720.5  
 1818 9.7 70352.6 -1732.2  
 1819 9.0 70352.8 -1756.0  
 1820 9.7 70352.8 -1701.4  
 1821 8.8 70404.1 -1704.8

1822 9.5 70416.8 -1706.0  
 1823 9.8 70417.9 -1721.0  
 1824 8.0 70425.6 -1748.6  
 1825 9.4 70427.7 -1735.0  
 1826 9.5 70432.7 -1713.3  
 1827 9.0 70449.8 -1704.1  
 1828 7.0 70457.2 -1705.7  
 1829 9.1 70507.0 -1754.0  
 1830 9.0 70507.9 -1751.7  
 1831 10.1 70508.3 -1740.8

1832 10.1 70520.4 -1724.0  
 1833 9.3 70522.2 -1725.7  
 1834 10.1 70524.8 -1700.0  
 1835 9.1 70525.6 -1708.4  
 1836 9.2 70529.9 -1709.0  
 1837 9.5 70530.0 -1716.6  
 1838 9.8 70533.6 -1729.1  
 1839 9.2 70534.0 -1726.1  
 1840 9.5 70541.1 -1724.5  
 1841 9.8 70544.8 -1759.2

1842 9.5 70549.3 -1758.3  
 1843 10.1 70601.1 -1734.4  
 1844 9.7 70605.3 -1704.0  
 1845 9.4 70606.7 -1758.1  
 1846 9.7 70610.0 -1711.1  
 1847 9.6 70615.4 -1742.2  
 1848 9.3 70633.8 -1723.0  
 1849 9.1 70638.0 -1700.3  
 1850 9.8 70639.7 -1705.8  
 1851 9.8 70647.9 -1724.8

1852 9.5 70654.7 -1718.1  
 1853 9.4 70701.2 -1754.2  
 1854 9.3 70701.4 -1721.0  
 1855 8.3 70704.6 -1730.7  
 1856 8.8 70717.8 -1716.8  
 1857 9.4 70722.9 -1740.2  
 1858 9.5 70724.4 -1752.3  
 1859 9.8 70727.0 -1755.4  
 1860 9.8 70728.1 -1708.3  
 1861 10.1 70731.7 -1748.0

1862 9.7 70738.5 -1743.2  
 1863 9.5 70741.1 -1722.2  
 1864 9.0 70744.6 -1743.4  
 1865 9.5 70748.4 -1748.8  
 1866 10.1 70808.1 -1708.5  
 1867 10.1 70820.1 -1744.1  
 1868 9.8 70824.2 -1745.7  
 1869 9.6 70826.9 -1708.5  
 1870 9.8 70827.4 -1753.9  
 1871 10.1 70829.8 -1732.0

1872 10.1 70838.1 -1739.6  
 1873 10.1 70842.2 -1713.4  
 1874 9.8 70912.8 -1752.5  
 1875 9.8 70913.4 -1709.2  
 1876 9.5 70913.9 -1722.1  
 1877 9.8 70925.8 -1759.0  
 1878 8.6 70931.8 -1739.1  
 1879 9.1 70934.1 -1730.3  
 1880 9.8 70937.6 -1746.6  
 1881 9.8 70937.6 -1732.1

1882 9.3 70942.7 -1712.0  
 1883 8.9 70945.2 -1707.6  
 1884 8.0 70945.6 -1702.4  
 1885 9.8 70957.1 -1753.3  
 1886 10.1 71002.3 -1741.5  
 1887 9.4 71010.4 -1711.8  
 1888 9.5 71010.6 -1743.8  
 1889 9.8 71018.3 -1753.0  
 1890 9.8 71030.6 -1713.2  
 1891 9.4 71031.6 -1702.6



-17 1892 7h10m

1892 9.2 71032.9 -1749.4  
1893 9.8 71049.5 -1729.2  
1894 8.5 71050.0 -1706.1  
1895 8.8 71052.0 -1731.0  
1896 9.1 71052.6 -1734.0  
1897 9.7 71102.5 -1705.3  
1898 8.9 71105.6 -1756.8  
1899 9.6 71106.1 -1751.9  
1900 9.8 71116.1 -1733.7  
1901 9.2 71125.2 -1709.1

1902 9.2 71131.8 -1722.3  
1903 9.5 71134.3 -1756.3  
1904 10.1 71136.3 -1705.6  
1905 9.5 71145.7 -1757.2  
1906 9.7 71145.9 -1712.1  
1907 8.9 71146.8 -1709.0  
1908 10.1 71201.1 -1725.7  
1909 9.6 71206.8 -1748.0  
1910 9.8 71211.2 -1749.1  
1911 9.4 71213.0 -1730.5

1912 10.1 71224.1 -1746.2  
1913 8.8 71233.0 -1746.6  
1914 8.8 71241.6 -1749.6  
1915 9.6 71245.0 -1716.7  
1916 8.6 71246.6 -1734.6  
1917 6.9 71249.9 -1715.2  
1918 10.1 71256.0 -1747.4  
1919 9.3 71257.3 -1753.4  
1920 9.3 71316.4 -1748.3  
1921 9.1 71319.2 -1716.5

1922 9.5 71335.6 -1711.0  
1923 8.5 71351.8 -1735.8  
1924 9.1 71408.6 -1703.4  
1925 10.1 71429.7 -1723.5  
1926 9.8 71433.5 -1725.8  
1927 9.7 71452.8 -1728.9  
1928 10.1 71501.6 -1736.3  
1929 9.1 71509.6 -1753.1  
1930 9.4 71519.4 -1735.0  
1931 9.9 71520.0 -1725.6

1932 10.1 71523.1 -1706.6  
1933 9.7 71533.9 -1746.3  
1934 9.8 71536.9 -1703.9  
1935 8.5 71538.8 -1732.8  
1936 9.3 71540.8 -1730.4  
1937 8.2 71553.1 -1732.3  
1938 10.1 71555.5 -1745.2  
1939 9.4 71611.0 -1718.1  
1940 9.5 71611.4 -1725.7  
1941 8.3 71612.5 -1721.3

1942 8.7 71625.6 -1732.6  
1943 10.1 71626.6 -1748.5  
1944 10.1 71631.9 -1740.3  
1945 9.7 71640.4 -1725.5  
1946 10.1 71643.9 -1700.0  
1947 7.8 71644.7 -1728.8  
1948 9.2 71646.7 -1724.4  
1949 10.1 71651.8 -1747.1  
1950 10.1 71654.3 -1751.4  
1951 9.8 71658.9 -1704.8

1952 10.1 71701.8 -1756.0  
1953 9.5 71708.1 -1721.7  
1954 9.1 71718.7 -1726.7  
1955 7.5 71724.9 -1708.0  
1956 9.3 71727.4 -1746.3  
1957 10.1 71745.3 -1747.6  
1958 9.6 71806.3 -1703.8  
1959 9.8 71806.9 -1736.8  
1960 9.0 71808.4 -1748.1  
1961 9.5 71812.4 -1741.0

1962 9.8 71836.5 -1748.3  
1963 9.5 71839.7 -1727.8  
1964 9.3 71842.4 -1739.7  
1965 10.1 71851.4 -1741.8  
1966 10.1 71856.8 -1759.2  
1967 8.8 71905.7 -1726.1  
1968 9.5 71910.5 -1727.4  
1969 10.1 71932.2 -1725.3  
1970 8.2 71934.0 -1751.0  
1971 8.0 71941.0 -1749.8

1972 9.1 71946.6 -1703.4  
1973 8.5 71955.8 -1732.5  
1974 9.7 72009.9 -1750.8  
1975 9.2 72011.6 -1752.9  
1976 9.0 72014.6 -1701.8  
1977 9.4 72030.4 -1712.8  
1978 9.6 72037.0 -1718.2  
1979 9.8 72037.2 -1701.9  
1980 6.0 72039.8 -1734.2  
1981 8.7 72054.0 -1715.3

1982 10.1 72055.3 -1730.2  
1983 9.4 72058.1 -1719.3  
1984 9.6 72100.9 -1711.6  
1985 9.8 72114.5 -1746.0  
1986 9.5 72123.7 -1757.0  
1987 9.8 72126.4 -1713.9  
1988 9.8 72133.2 -1758.7  
1989 9.2 72200.3 -1701.5  
1990 9.8 72215.1 -1744.1  
1991 9.8 72222.6 -1753.9

1992 9.8 72237.4 -1712.8  
1993 9.1 72239.9 -1713.0  
1994 9.7 72244.8 -1712.0  
1995 9.5 72245.5 -1751.5  
1996 7.5 72250.3 -1702.7  
1997 9.4 72303.0 -1718.8  
1998 8.7 72305.9 -1717.0  
1999 9.0 72312.3 -1712.2  
2000 8.7 72325.5 -1714.1  
2001 9.8 72326.8 -1752.0

2002 9.8 72326.9 -1750.9  
2003 10.1 72326.9 -1706.0  
2004 8.6 72328.9 -1741.8  
2005 9.0 72354.9 -1704.5  
2006 8.6 72403.0 -1701.1  
2007 9.0 72406.7 -1732.8  
2008 9.6 72407.6 -1727.2  
2009 9.2 72409.3 -1736.8  
2010 9.0 72424.1 -1757.3  
2011 9.5 72433.3 -1758.1

2012 9.3 72436.8 -1705.1  
2013 9.0 72438.8 -1724.0  
2014 9.0 72439.9 -1742.2  
2015 8.9 72448.1 -1722.5  
2016 9.1 72501.0 -1735.8  
2017 9.2 72514.0 -1740.1  
2018 9.5 72522.1 -1756.3  
2019 9.9 72539.7 -1751.6  
2020 9.5 72542.6 -1721.1  
2021 9.0 72555.4 -1712.1

2022 9.2 72556.8 -1732.9  
2023 7.3 72557.3 -1756.4  
2024 9.8 72603.2 -1703.4  
2025 9.0 72620.3 -1756.0  
2026 9.5 72624.1 -1759.0  
2027 9.9 72634.3 -1738.8  
2028 9.8 72639.3 -1752.3  
2029 9.0 72642.2 -1730.7  
2030 9.4 72643.0 -1720.0  
2031 9.5 72646.9 -1744.1

2032 9.8 72704.1 -1726.9  
2033 9.0 72713.7 -1742.4  
2034 9.4 72715.7 -1732.5  
2035 9.6 72726.4 -1714.6  
2036 9.8 72731.9 -1706.3  
2037 9.0 72733.6 -1730.2  
2038 10.1 72741.3 -1724.2  
2039 10.1 72743.8 -1731.8  
2040 9.5 72801.6 -1745.8  
2041 9.7 72803.8 -1740.9

2042 9.8 72814.2 -1722.3  
2043 9.0 72829.3 -1710.9  
2044 9.5 72830.1 -1726.8  
2045 9.2 72832.0 -1755.0  
2046 9.3 72833.9 -1711.9  
2047 9.5 72840.2 -1706.9  
2048 7.7 72842.9 -1714.3  
2049 10.1 72847.1 -1759.0  
2050 8.9 72848.7 -1705.0  
2051 9.5 72851.1 -1727.7

2052 9.3 72852.6 -1758.1  
2053 8.5 72853.0 -1735.9  
2054 10.1 72905.1 -1759.3  
2055 9.4 72912.0 -1745.2  
2056 9.2 72933.2 -1730.5  
2057 9.0 72937.7 -1736.4  
2058 8.5 72945.1 -1729.5  
2059 9.1 72956.7 -1707.5  
2060 10.1 73018.9 -1750.6  
2061 9.8 73027.8 -1711.1

2062 9.3 73104.0 -1742.1  
2063 8.8 73116.9 -1706.0  
2064 9.8 73124.8 -1745.3  
2065 9.8 73128.1 -1748.8  
2066 9.7 73128.3 -1759.2  
2067 9.8 73134.4 -1714.2  
2068 9.5 73141.9 -1700.1  
2069 9.5 73153.3 -1748.7  
2070 9.6 73158.4 -1748.1  
2071 9.4 73158.4 -1748.1

2072 9.3 73159.5 -1713.5  
2073 9.4 73200.6 -1744.6  
2074 9.5 73227.7 -1745.1  
2075 9.5 73230.9 -1716.4  
2076 9.8 73234.5 -1739.5  
2077 9.0 73245.4 -1747.7  
2078 9.0 73254.5 -1754.5  
2079 9.9 73302.1 -1758.1  
2080 9.3 73307.5 -1735.8  
2081 7.6 73309.2 -1732.1

2082 9.9 73317.6 -1734.2  
2083 9.1 73319.7 -1734.6  
2084 10.1 73320.3 -1759.2  
2085 9.6 73321.5 -1725.3  
2086 10.1 73325.0 -1702.9  
2087 9.8 73329.7 -1718.6  
2088 9.9 73331.2 -1707.8  
2089 9.0 73334.3 -1707.9  
2090 9.7 73336.4 -1751.1  
2091 9.4 73357.7 -1722.2

2092 9.3 73358.3 -1737.8  
2093 9.8 73401.9 -1703.6  
2094 9.4 73412.1 -1725.6  
2095 10.1 73422.8 -1751.2  
2096 10.1 73434.3 -1728.1  
2097 9.8 73438.7 -1730.8  
2098 9.0 73441.1 -1747.4  
2099 9.5 73502.2 -1708.9  
2100 9.8 73503.4 -1735.3  
2101 9.5 73506.5 -1705.6

2102 9.3 73508.3 -1745.1  
2103 10.1 73513.1 -1706.7  
2104 9.5 73520.0 -1758.0  
2105 20.0 73527.9 -1752.1  
2106 8.7 73538.8 -1752.0  
2107 9.8 73548.2 -1740.0  
2108 8.8 73552.8 -1755.6  
2109 9.8 73602.4 -1754.7  
2110 9.6 73616.2 -1703.7  
2111 9.3 73617.2 -1708.4

2112 9.5 73618.2 -1720.0  
2113 9.0 73621.5 -1721.2  
2114 9.6 73634.2 -1708.4  
2115 9.3 73647.4 -1754.3  
2116 9.4 73649.6 -1750.7  
2117 9.5 73654.5 -1757.2  
2118 8.2 73707.3 -1713.3  
2119 9.5 73709.1 -1706.8  
2120 8.6 73716.7 -1735.7  
2121 9.4 73717.8 -1739.8

2122 9.5 73721.2 -1746.9  
2123 9.5 73735.5 -1759.6  
2124 9.8 73737.1 -1741.5  
2125 9.5 73744.2 -1738.5  
2126 8.2 73746.0 -1731.1  
2127 10.1 73750.3 -1750.9  
2128 9.2 73756.0 -1748.6  
2129 9.5 73811.5 -1734.5  
2130 7.8 73813.3 -1720.9  
2131 9.8 73819.4 -1755.7

2132 9.5 73828.2 -1700.3  
2133 8.8 73830.3 -1722.9  
2134 9.6 73839.8 -1721.5  
2135 9.5 73843.9 -1753.1  
2136 10.1 73845.2 -1716.9  
2137 8.7 73848.3 -1740.9  
2138 8.9 73849.4 -1752.6  
2139 9.4 73904.0 -1748.0  
2140 9.8 73912.5 -1759.8  
2141 9.1 73922.3 -1732.1

2142 9.4 73925.4 -1747.4  
2143 10.1 73934.5 -1733.9  
2144 9.1 73935.2 -1715.9  
2145 9.8 73936.1 -1744.0  
2146 9.2 73936.3 -1719.7  
2147 9.5 73938.9 -1756.3  
2148 10.1 73942.5 -1733.7  
2149 9.2 73944.0 -1729.1  
2150 9.8 73950.0 -1724.4  
2151 10.1 74006.7 -1746.0

2152 9.5 74009.1 -1753.4  
2153 9.8 74019.2 -1713.9  
2154 9.4 74033.9 -1757.0  
2155 9.7 74040.4 -1701.0  
2156 9.8 74044.3 -1720.4  
2157 9.4 74045.8 -1748.6  
2158 9.1 74054.4 -1707.5  
2159 9.3 74103.6 -1743.5  
2160 8.9 74110.6 -1739.0  
2161 9.8 74122.7 -1708.6

-17 2251 7h51m

2162 9.4 74122.7 -1729.7  
2163 9.7 74126.5 -1739.5  
2164 9.5 74131.3 -1756.4  
2165 9.0 74155.5 -1707.5  
2166 9.4 74201.1 -1703.6  
2167 9.2 74202.2 -1744.0  
2168 9.8 74207.4 -1716.1  
2169 9.1 74209.0 -1720.9  
2170 9.8 74212.6 -1736.4  
2171 8.1 74214.7 -1702.8

2172 9.0 74216.2 -1739.7  
2173 9.0 74224.9 -1744.1  
2174 9.5 74243.5 -1734.8  
2175 9.8 74252.8 -1713.7  
2176 9.6 74255.0 -1707.0  
2177 9.3 74326.7 -1708.0  
2178 9.1 74327.5 -1700.8  
2179 8.7 74333.2 -1741.1  
2180 9.4 74351.9 -1722.5  
2181 9.4 74417.2 -1713.4

2182 9.5 74421.0 -1724.8  
2183 9.4 74425.6 -1709.0  
2184 10.1 74431.9 -1729.5  
2185 6.5 74436.8 -1752.5  
2186 9.1 74459.6 -1717.3  
2187 9.5 74514.2 -1747.4  
2188 7.9 74517.0 -1759.2  
2189 8.7 74518.6 -1755.1  
2190 9.0 74519.3 -1700.9  
2191 9.4 74524.7 -1716.0

2192 9.5 74528.4 -1722.8  
2193 9.7 74529.5 -1724.0  
2194 9.8 74531.1 -1732.9  
2195 9.5 74537.9 -1757.8  
2196 8.5 74539.5 -1724.6  
2197 9.8 74544.7 -1723.8  
2198 8.3 74553.7 -1738.9  
2199 9.1 74555.4 -1729.9  
2200 9.8 74606.8 -1758.8  
2201 9.5 74608.4 -1744.9

2202 9.9 74610.9 -1720.9  
2203 9.3 74618.6 -1702.8  
2204 10.1 74618.9 -1720.0  
2205 9.0 74625.0 -1708.1  
2206 9.8 74625.2 -1702.8  
2207 10.1 74626.4 -1724.3  
2208 9.5 74628.3 -1751.2  
2209 9.7 74631.9 -1700.1  
2210 9.8 74642.1 -1735.8  
2211 10.1 74649.9 -1748.6

2212 9.6 74657.2 -1717.5  
2213 10.1 74657.8 -1736.1  
2214 10.1 74701.9 -1744.8  
2215 9.8 74724.6 -1740.1  
2216 9.2 74723.3 -1730.7  
2217 9.4 74733.3 -1757.5  
2218 9.2 74737.6 -1710.2  
2219 7.0 74738.0 -1757.2  
2220 8.2 74739.4 -1745.4  
2221 9.1 74751.0 -1725.8

2222 9.0 74752.0 -1725.4  
2223 8.9 74757.1 -1715.9  
2224 10.1 74805.8 -1710.8  
2225 8.7 74809.2 -1752.5  
2226 9.5 74815.4 -1706.9  
2227 9.6 74817.4 -1714.3  
2228 9.6 74819.0 -1714.2  
2229 8.7 74825.2 -1741.3  
2230 9.4 74825.2 -1751.2  
2231 10.1 74840.0 -1743.8

2232 9.8 74840.7 -1750.0  
2233 9.3 74846.4 -1745.6  
2234 9.8 74912.4 -1707.6  
2235 9.6 74916.5 -1751.5  
2236 9.3 74933.0 -1714.6  
2237 9.2 74943.5 -1712.1  
2238 9.6 74952.1 -1744.9  
2239 9.1 74955.4 -1717.5  
2240 9.8 75007.9 -1709.6  
2241 9.4 75017.0 -1726.1

2242 9.4 75021.5 -1703.8  
2243 9.6 75030.0 -1742.1  
2244 9.3 75031.8 -1749.6  
2245 9.3 75036.5 -1701.4  
2246 9.1 75045.9 -1711.0  
2247 8.8 75054.8 -1734.5  
2248 9.8 75059.2 -1724.4  
2249 8.9 75111.4 -1736.5  
2250 10.1 75127.9 -1735.8  
2251 9.9 75133.2 -1725.7



|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 2252 | 8.8 | 75136.8 | -1721.9 | 2342 | 9.1 | 80116.6 | -1705.9 | 2432 | 9.2 | 81147.2 | -1724.6 | 2522 | 8.0 | 82332.4 | -1751.6 |
| 2253 | 9.3 | 75137.1 | -1747.7 | 2343 | 9.8 | 80120.1 | -1710.6 | 2433 | 9.5 | 81151.3 | -1758.9 | 2523 | 10. | 82340.8 | -1734.3 |
| 2254 | 10. | 75137.8 | -1704.1 | 2344 | 9.4 | 80129.0 | -1715.2 | 2434 | 10. | 81202.2 | -1726.3 | 2524 | 9.5 | 82351.4 | -1718.3 |
| 2255 | 10. | 75145.5 | -1742.8 | 2345 | 9.7 | 80133.2 | -1712.1 | 2435 | 10. | 81207.3 | -1722.2 | 2525 | 9.1 | 82351.9 | -1751.0 |
| 2256 | 9.5 | 75149.7 | -1730.0 | 2346 | 9.8 | 80134.7 | -1745.4 | 2436 | 10. | 81217.4 | -1726.9 | 2526 | 9.4 | 82358.3 | -1736.1 |
| 2257 | 8.6 | 75156.8 | -1747.8 | 2347 | 9.3 | 80136.3 | -1758.3 | 2437 | 9.0 | 81223.9 | -1732.9 | 2527 | 8.8 | 82410.7 | -1734.1 |
| 2258 | 9.8 | 75220.6 | -1724.0 | 2348 | 9.5 | 80138.4 | -1748.4 | 2438 | 9.3 | 81228.2 | -1723.9 | 2528 | 8.8 | 82413.3 | -1737.0 |
| 2259 | 10. | 75226.9 | -1745.8 | 2349 | 9.0 | 80139.6 | -1722.1 | 2439 | 9.1 | 81231.3 | -1746.9 | 2529 | 9.8 | 82414.8 | -1748.5 |
| 2260 | 9.3 | 75228.2 | -1736.7 | 2350 | 10. | 80147.5 | -1759.9 | 2440 | 9.3 | 81247.2 | -1711.7 | 2530 | 8.7 | 82441.2 | -1756.8 |
| 2261 | 9.3 | 75237.8 | -1748.9 | 2351 | 10. | 80158.6 | -1729.8 | 2441 | 9.4 | 81254.0 | -1743.4 | 2531 | 9.8 | 82457.8 | -1735.4 |
| 2262 | 9.2 | 75247.9 | -1756.4 | 2352 | 8.5 | 80208.0 | -1758.9 | 2442 | 9.1 | 81310.3 | -1748.9 | 2532 | 9.5 | 82513.6 | -1723.8 |
| 2263 | 9.5 | 75253.5 | -1713.1 | 2353 | 10. | 80208.9 | -1710.7 | 2443 | 9.8 | 81310.6 | -1745.0 | 2533 | 9.2 | 82522.1 | -1751.9 |
| 2264 | 9.8 | 75259.4 | -1743.1 | 2354 | 9.8 | 80209.6 | -1730.6 | 2444 | 9.0 | 81317.5 | -1740.0 | 2534 | 7.0 | 82524.7 | -1753.8 |
| 2265 | 9.2 | 75300.7 | -1738.3 | 2355 | 10. | 80214.0 | -1727.5 | 2445 | 9.8 | 81320.5 | -1754.1 | 2535 | 9.5 | 82533.7 | -1744.7 |
| 2266 | 9.8 | 75304.3 | -1730.3 | 2356 | 9.4 | 80214.6 | -1742.6 | 2446 | 9.9 | 81325.2 | -1727.9 | 2536 | 9.0 | 82542.5 | -1725.8 |
| 2267 | 9.2 | 75306.9 | -1706.7 | 2357 | 9.8 | 80223.0 | -1715.8 | 2447 | 9.5 | 81329.9 | -1745.5 | 2537 | 9.6 | 82546.1 | -1744.6 |
| 2268 | 9.3 | 75310.6 | -1755.0 | 2358 | 9.9 | 80224.3 | -1720.3 | 2448 | 9.3 | 81336.4 | -1755.8 | 2538 | 9.5 | 82554.3 | -1748.4 |
| 2269 | 9.3 | 75320.3 | -1739.9 | 2359 | 9.5 | 80238.2 | -1706.7 | 2449 | 9.4 | 81339.1 | -1717.8 | 2539 | 9.8 | 82557.6 | -1734.1 |
| 2270 | 10. | 75326.3 | -1731.7 | 2360 | 9.8 | 80256.1 | -1728.7 | 2450 | 9.4 | 81339.7 | -1719.4 | 2540 | 9.5 | 82601.3 | -1745.4 |
| 2271 | 9.2 | 75338.7 | -1737.3 | 2361 | 9.3 | 80307.5 | -1711.3 | 2451 | 10. | 81353.9 | -1745.0 | 2541 | 8.8 | 82601.7 | -1708.3 |
| 2272 | 8.8 | 75339.0 | -1746.6 | 2362 | 9.1 | 80308.4 | -1757.5 | 2452 | 10. | 81359.0 | -1752.1 | 2542 | 9.4 | 82609.7 | -1725.0 |
| 2273 | 8.8 | 75340.6 | -1726.7 | 2363 | 9.0 | 80309.1 | -1717.5 | 2453 | 9.2 | 81400.2 | -1723.1 | 2543 | 10. | 82630.8 | -1729.8 |
| 2274 | 8.0 | 75348.4 | -1736.4 | 2364 | 9.3 | 80316.3 | -1752.9 | 2454 | 10. | 81402.8 | -1701.9 | 2544 | 9.8 | 82635.0 | -1701.5 |
| 2275 | 10. | 75352.5 | -1719.4 | 2365 | 10. | 80320.8 | -1705.7 | 2455 | 9.1 | 81408.8 | -1732.2 | 2545 | 9.1 | 82638.6 | -1757.0 |
| 2276 | 8.0 | 75358.0 | -1732.2 | 2366 | 9.7 | 80323.0 | -1739.2 | 2456 | 9.5 | 81409.2 | -1723.3 | 2546 | 9.9 | 82647.3 | -1703.2 |
| 2277 | 9.0 | 75401.4 | -1714.0 | 2367 | 8.7 | 80325.9 | -1753.3 | 2457 | 10. | 81411.1 | -1751.7 | 2547 | 10. | 82648.4 | -1734.4 |
| 2278 | 9.1 | 75409.0 | -1716.0 | 2368 | 9.1 | 80327.0 | -1756.7 | 2458 | 9.8 | 81411.4 | -1708.6 | 2548 | 10. | 82653.6 | -1730.6 |
| 2279 | 10. | 75419.7 | -1751.4 | 2369 | 10. | 80327.2 | -1741.1 | 2459 | 9.4 | 81431.0 | -1739.0 | 2549 | 9.0 | 82656.8 | -1717.0 |
| 2280 | 9.9 | 75420.9 | -1741.4 | 2370 | 9.2 | 80330.1 | -1708.8 | 2460 | 9.4 | 81439.6 | -1717.8 | 2550 | 9.5 | 82702.1 | -1700.5 |
| 2281 | 9.1 | 75431.6 | -1753.7 | 2371 | 8.7 | 80340.8 | -1729.7 | 2461 | 8.8 | 81443.5 | -1717.1 | 2551 | 10. | 82710.7 | -1702.4 |
| 2282 | 10. | 75435.5 | -1705.4 | 2372 | 8.2 | 80349.1 | -1745.8 | 2462 | 9.0 | 81503.9 | -1753.8 | 2552 | 9.0 | 82714.8 | -1714.7 |
| 2283 | 9.9 | 75436.1 | -1736.0 | 2373 | 9.1 | 80354.2 | -1713.2 | 2463 | 9.2 | 81507.4 | -1709.2 | 2553 | 9.1 | 82718.9 | -1756.7 |
| 2284 | 10. | 75437.3 | -1737.6 | 2374 | 9.5 | 80401.7 | -1739.6 | 2464 | 6.0 | 81519.9 | -1707.5 | 2554 | 9.9 | 82720.5 | -1737.4 |
| 2285 | 10. | 75451.6 | -1750.7 | 2375 | 9.8 | 80406.5 | -1726.6 | 2465 | 9.3 | 81526.6 | -1745.5 | 2555 | 9.2 | 82721.0 | -1724.2 |
| 2286 | 9.5 | 75500.4 | -1747.1 | 2376 | 9.4 | 80414.3 | -1718.0 | 2466 | 8.6 | 81532.8 | -1731.2 | 2556 | 10. | 82731.1 | -1701.2 |
| 2287 | 9.6 | 75503.4 | -1749.5 | 2377 | 9.0 | 80416.2 | -1749.7 | 2467 | 9.4 | 81538.1 | -1717.7 | 2557 | 9.7 | 82737.1 | -1745.3 |
| 2288 | 10. | 75503.5 | -1726.8 | 2378 | 8.0 | 80430.8 | -1756.3 | 2468 | 10. | 81600.4 | -1734.7 | 2558 | 10. | 82738.2 | -1713.5 |
| 2289 | 9.8 | 75503.5 | -1721.6 | 2379 | 9.8 | 80434.8 | -1726.1 | 2469 | 9.5 | 81606.4 | -1750.6 | 2559 | 9.9 | 82739.5 | -1730.4 |
| 2290 | 9.8 | 75508.7 | -1714.4 | 2380 | 9.6 | 80437.8 | -1746.6 | 2470 | 9.2 | 81614.8 | -1733.7 | 2560 | 9.9 | 82740.6 | -1720.9 |
| 2291 | 10. | 75527.2 | -1738.1 | 2381 | 9.9 | 80451.6 | -1744.7 | 2471 | 9.4 | 81627.4 | -1710.5 | 2561 | 9.0 | 82744.3 | -1713.5 |
| 2292 | 8.7 | 75527.4 | -1711.8 | 2382 | 9.7 | 80453.0 | -1712.8 | 2472 | 9.0 | 81645.8 | -1736.4 | 2562 | 9.5 | 82754.7 | -1706.5 |
| 2293 | 9.8 | 75601.3 | -1739.7 | 2383 | 9.1 | 80457.9 | -1717.5 | 2473 | 10. | 81700.2 | -1718.9 | 2563 | 9.4 | 82757.7 | -1711.7 |
| 2294 | 9.4 | 75602.2 | -1740.8 | 2384 | 9.8 | 80509.6 | -1717.0 | 2474 | 10. | 81701.5 | -1726.5 | 2564 | 9.4 | 82804.4 | -1752.2 |
| 2295 | 8.7 | 75608.4 | -1716.1 | 2385 | 9.0 | 80518.1 | -1716.6 | 2475 | 9.0 | 81702.5 | -1746.6 | 2565 | 9.4 | 82804.6 | -1753.8 |
| 2296 | 9.3 | 75616.0 | -1743.8 | 2386 | 9.8 | 80530.7 | -1736.1 | 2476 | 10. | 81726.3 | -1733.5 | 2566 | 9.4 | 82805.8 | -1717.2 |
| 2297 | 9.8 | 75616.4 | -1736.2 | 2387 | 9.9 | 80537.5 | -1703.4 | 2477 | 8.6 | 81736.5 | -1742.1 | 2567 | 9.1 | 82811.0 | -1711.5 |
| 2298 | 9.1 | 75637.5 | -1732.5 | 2388 | 9.6 | 80543.5 | -1721.5 | 2478 | 10. | 81749.8 | -1734.0 | 2568 | 9.5 | 82845.6 | -1752.1 |
| 2299 | 9.3 | 75648.5 | -1702.8 | 2389 | 9.9 | 80553.1 | -1751.8 | 2479 | 9.4 | 81803.2 | -1727.1 | 2569 | 10. | 82847.0 | -1712.5 |
| 2300 | 9.2 | 75649.6 | -1726.0 | 2390 | 9.5 | 80556.5 | -1701.2 | 2480 | 9.2 | 81811.3 | -1759.5 | 2570 | 9.4 | 82850.5 | -1758.2 |
| 2301 | 9.5 | 75654.4 | -1750.4 | 2391 | 9.8 | 80556.5 | -1730.6 | 2481 | 9.5 | 81824.7 | -1722.2 | 2571 | 9.4 | 82853.3 | -1712.1 |
| 2302 | 9.5 | 75705.0 | -1755.9 | 2392 | 9.0 | 80613.5 | -1748.4 | 2482 | 9.2 | 81833.2 | -1726.9 | 2572 | 9.2 | 82903.6 | -1751.7 |
| 2303 | 10. | 75709.9 | -1748.0 | 2393 | 10. | 80618.9 | -1758.7 | 2483 | 10. | 81836.0 | -1738.7 | 2573 | 9.1 | 82916.4 | -1718.4 |
| 2304 | 8.8 | 75717.3 | -1709.5 | 2394 | 9.4 | 80643.0 | -1740.9 | 2484 | 9.4 | 81848.6 | -1725.5 | 2574 | 10. | 82947.2 | -1711.8 |
| 2305 | 9.1 | 75718.5 | -1738.8 | 2395 | 7.8 | 80648.0 | -1741.9 | 2485 | 9.3 | 81855.7 | -1711.4 | 2575 | 9.1 | 82954.6 | -1742.1 |
| 2306 | 9.9 | 75726.8 | -1743.6 | 2396 | 9.4 | 80655.1 | -1723.5 | 2486 | 9.8 | 81856.9 | -1738.5 | 2576 | 8.4 | 82955.8 | -1731.5 |
| 2307 | 9.2 | 75729.9 | -1718.4 | 2397 | 9.2 | 80705.4 | -1714.0 | 2487 | 10. | 81911.3 | -1757.0 | 2577 | 9.5 | 83006.4 | -1722.7 |
| 2308 | 9.2 | 75741.7 | -1731.8 | 2398 | 9.8 | 80719.9 | -1751.1 | 2488 | 9.2 | 81913.8 | -1759.5 | 2578 | 10. | 83017.7 | -1728.8 |
| 2309 | 9.4 | 75745.8 | -1739.5 | 2399 | 8.3 | 80723.4 | -1713.8 | 2489 | 9.5 | 81919.0 | -1715.0 | 2579 | 10. | 83017.9 | -1736.4 |
| 2310 | 9.9 | 75749.3 | -1711.7 | 2400 | 9.0 | 80724.1 | -1743.2 | 2490 | 9.9 | 81929.2 | -1701.9 | 2580 | 8.7 | 83019.4 | -1722.3 |
| 2311 | 6.8 | 75759.9 | -1715.3 | 2401 | 9.4 | 80738.4 | -1704.9 | 2491 | 8.8 | 81933.4 | -1740.9 | 2581 | 9.1 | 83021.6 | -1706.7 |
| 2312 | 9.8 | 75808.1 | -1729.1 | 2402 | 9.8 | 80754.2 | -1713.7 | 2492 | 9.9 | 81935.1 | -1743.6 | 2582 | 9.3 | 83048.8 | -1750.3 |
| 2313 | 9.1 | 75809.2 | -1721.7 | 2403 | 9.5 | 80757.5 | -1753.6 | 2493 | 8.2 | 81942.4 | -1735.7 | 2583 | 9.1 | 83054.5 | -1757.0 |
| 2314 | 9.7 | 75819.4 | -1718.6 | 2404 | 9.0 | 80757.7 | -1718.5 | 2494 | 9.7 | 81945.8 | -1722.6 | 2584 | 10. | 83106.9 | -1725.1 |
| 2315 | 9.8 | 75824.3 | -1709.6 | 2405 | 9.2 | 80804.6 | -1727.4 | 2495 | 9.7 | 81954.4 | -1741.7 | 2585 | 10. | 83107.1 | -1710.7 |
| 2316 | 9.5 | 75826.2 | -1700.8 | 2406 | 9.4 | 80807.9 | -1727.4 | 2496 | 9.3 | 82004.6 | -1701.6 | 2586 | 8.5 | 83114.1 | -1724.4 |
| 2317 | 9.1 | 75827.3 | -1722.8 | 2407 | 9.0 | 80823.2 | -1715.7 | 2497 | 7.3 | 82014.1 | -1741.8 | 2587 | 9.0 | 83118.0 | -1754.3 |
| 2318 | 9.2 | 75831.5 | -1755.6 | 2408 | 8.7 | 80825.4 | -1705.2 | 2498 | 9.2 | 82015.9 | -1750.2 | 2588 | 10. | 83123.8 | -1702.0 |
| 2319 | 9.7 | 75827.3 | -1749.3 | 2409 | 9.2 | 80827.1 | -1742.2 | 2499 | 9.8 | 82017.2 | -1722.3 | 2589 | 9.5 | 83128.7 | -1705.7 |
| 2320 | 9.5 | 75846.2 | -1736.8 | 2410 | 9.3 | 80828.3 | -1753.7 | 2500 | 8.7 | 82025.4 | -1741.2 | 2590 | 9.8 | 83139.6 | -1710.6 |
| 2321 | 8.7 | 75847.4 | -1734.2 | 2411 | 9.4 | 80845.9 | -1753.4 | 2501 | 10. | 82041.9 | -1735.1 | 2591 | 9.4 | 83149.5 | -1746.8 |
| 2322 | 9.0 | 75849.4 | -1756.6 | 2412 | 9.0 | 80907.9 | -1743.8 | 2502 | 10. | 82056.5 | -1737.7 | 2592 | 9.8 | 83149.6 | -1707.4 |
| 2323 | 10. | 75900.5 | -1706.7 | 2413 | 10. | 80908.1 | -1710.8 | 2503 | 9.5 | 82102.7 | -1721.3 | 2593 | 8.5 | 83203.2 | -1755.8 |
| 2324 | 9.0 | 75910.9 | -1742.0 | 2414 | 9.2 | 80926.8 | -1759.9 | 2504 | 9.4 | 82113.6 | -1719.8 | 2594 | 10. | 83216.9 | -1739.8 |
| 2325 | 9.8 | 75920.0 | -1709.4 | 2415 | 9.8 | 80929.6 | -1713.2 | 2505 | 9.3 | 82119.7 | -1753.0 | 2595 | 9.0 | 83224.2 | -1728.7 |
| 2326 | 8.5 | 75921.9 | -1754.1 | 2416 | 9.5 | 80930.8 | -1759.3 | 2506 | 9.9 | 8212    |         |      |     |         |         |



-17 2612 8h34m

2612 9.8 83430.1 -1735.5  
2613 9.8 83455.5 -1758.3  
2614 8.4 83508.1 -1748.7  
2615 9.5 83529.8 -1721.2  
2616 9.3 83532.4 -1700.3  
2617 9.8 83552.3 -1754.1  
2618 9.4 83602.0 -1712.7  
2619 9.0 83602.6 -1746.7  
2620 9.7 83605.1 -1717.2  
2621 9.3 83608.3 -1700.7  
  
2622 9.5 83628.5 -1710.3  
2623 9.0 83640.2 -1724.1  
2624 9.5 83653.9 -1707.8  
2625 9.4 83654.8 -1704.7  
2626 9.3 83659.4 -1708.0  
2627 9.8 83703.3 -1753.0  
2628 9.4 83703.9 -1726.5  
2629 9.3 83705.4 -1731.4  
2630 9.8 83723.2 -1725.5  
2631 9.2 83730.5 -1709.8  
  
2632 8.5 83746.1 -1729.4  
2633 9.8 83747.0 -1747.9  
2634 10. 83808.5 -1721.1  
2635 10. 83808.8 -1719.0  
2636 10. 83808.8 -1754.5  
2637 9.4 83810.7 -1700.8  
2638 10. 83815.4 -1700.5  
2639 10. 83817.7 -1721.4  
2640 9.4 83823.9 -1735.1  
2641 8.5 83902.6 -1718.0  
  
2642 9.6 83903.0 -1739.5  
2643 9.4 83906.6 -1716.1  
2644 9.4 83914.8 -1758.1  
2645 9.5 83947.0 -1750.6  
2646 9.3 84001.9 -1705.4  
2647 9.0 84005.2 -1725.4  
2648 9.2 84009.8 -1725.8  
2649 9.5 84017.8 -1727.9  
2650 9.8 84051.9 -1743.8  
2651 9.3 84103.9 -1712.6  
  
2652 10. 84133.0 -1704.5  
2653 9.4 84133.6 -1732.2  
2654 9.4 84143.0 -1716.8  
2655 8.2 84151.3 -1730.9  
2656 9.4 84154.2 -1728.7  
2657 9.5 84208.6 -1720.2  
2658 9.5 84212.4 -1752.9  
2659 9.5 84217.3 -1728.4  
2660 8.5 84232.7 -1727.3  
2661 8.9 84304.5 -1740.9  
  
2662 10. 84305.0 -1731.5  
2663 9.0 84305.6 -1736.3  
2664 9.9 84334.4 -1738.0  
2665 8.7 84339.5 -1720.6  
2666 9.2 84346.4 -1754.0  
2667 8.9 84407.9 -1750.4  
2668 9.8 84409.8 -1707.8  
2669 9.4 84419.5 -1743.0  
2670 9.1 84423.2 -1749.9  
2671 10. 84434.3 -1714.8  
  
2672 9.8 84456.9 -1746.1  
2673 9.5 84507.3 -1754.8  
2674 9.5 84508.6 -1724.8  
2675 9.2 84509.1 -1704.0  
2676 9.4 84538.4 -1712.4  
2677 8.9 84550.6 -1748.2  
2678 9.5 84604.1 -1720.9  
2679 8.8 84614.0 -1749.7  
2680 9.1 84622.9 -1743.0  
2681 9.0 84630.9 -1718.6  
  
2682 9.8 84633.6 -1748.7  
2683 10. 84712.1 -1740.2  
2684 9.4 84717.2 -1740.3  
2685 9.8 84744.4 -1715.6  
2686 9.3 84755.0 -1724.5  
2687 9.0 84742.2 -1708.8  
2688 9.1 84746.1 -1726.3  
2689 9.5 84808.7 -1753.4  
2690 9.3 84819.1 -1729.5  
2691 5.6 84832.9 -1741.2  
  
2692 7.5 84836.0 -1742.2  
2693 9.3 84839.3 -1737.1  
2694 9.7 84856.8 -1712.5  
2695 9.4 84958.2 -1724.5  
2696 8.4 85010.3 -1728.5  
2697 9.3 85018.0 -1701.2  
2698 9.8 85041.7 -1700.7  
2699 9.3 85043.4 -1738.5  
2700 8.3 85046.1 -1729.0  
2701 9.3 85049.3 -1757.0

2702 9.4 85049.8 -1727.2  
2703 9.3 85102.3 -1753.7  
2704 9.4 85110.4 -1757.7  
2705 10. 85131.3 -1702.7  
2706 8.7 85222.7 -1712.0  
2707 9.5 85255.1 -1709.2  
2708 9.3 85310.5 -1750.4  
2709 9.5 85331.4 -1730.3  
2710 9.7 85342.0 -1703.8  
2711 8.9 85349.4 -1739.9  
  
2712 8.5 85406.2 -1746.6  
2713 10. 85424.3 -1725.8  
2714 9.7 85446.8 -1726.0  
2715 9.3 85450.4 -1733.8  
2716 9.4 85506.1 -1710.4  
2717 9.0 85506.1 -1756.4  
2718 10. 85508.6 -1740.8  
2719 9.8 85524.2 -1720.6  
2720 9.3 85526.0 -1753.2  
2721 9.5 85533.8 -1741.4  
  
2722 9.1 85540.5 -1710.3  
2723 9.6 85615.7 -1749.4  
2724 9.5 85616.2 -1722.1  
2725 9.8 85623.5 -1744.1  
2726 9.1 85625.9 -1705.0  
2727 9.0 85626.4 -1705.4  
2728 9.9 85707.6 -1749.7  
2729 10. 85708.7 -1739.8  
2730 8.2 85722.7 -1758.1  
2731 9.3 85728.0 -1716.5  
  
2732 9.0 85729.4 -1707.4  
2733 9.9 85735.9 -1707.6  
2734 10. 85757.4 -1748.9  
2735 10. 85758.6 -1751.0  
2736 9.5 85811.9 -1737.7  
2737 10. 85819.8 -1735.3  
2738 9.8 85820.7 -1734.0  
2739 9.8 85833.7 -1740.7  
2740 9.3 85834.6 -1758.2  
2741 9.4 85844.6 -1718.1  
  
2742 8.9 85900.7 -1712.9  
2743 8.5 85916.4 -1757.3  
2744 9.5 85929.7 -1705.6  
2745 9.0 85933.3 -1710.7  
2746 10. 85940.4 -1712.7  
2747 9.8 85943.4 -1714.6  
2748 9.3 85952.5 -1707.4  
2749 9.9 85959.9 -1740.9  
2750 9.4 90003.3 -1742.5  
2751 7.2 90012.8 -1737.3  
  
2752 9.0 90018.4 -1716.7  
2753 9.8 90055.7 -1712.2  
2754 10. 90110.6 -1744.7  
2755 9.0 90123.5 -1730.3  
2756 9.8 90124.4 -1715.2  
2757 8.6 90125.0 -1716.8  
2758 9.4 90129.5 -1743.3  
2759 9.4 90139.4 -1715.7  
2760 9.3 90154.9 -1738.1  
2761 9.5 90155.5 -1729.4  
  
2762 9.7 90210.3 -1735.6  
2763 8.7 90219.3 -1737.9  
2764 9.0 90220.5 -1706.7  
2765 6.2 90223.1 -1744.6  
2766 9.8 90225.6 -1727.3  
2767 9.5 90245.2 -1735.7  
2768 9.4 90245.8 -1727.0  
2769 9.8 90257.2 -1713.4  
2770 9.5 90246.6 -1738.1  
2771 10. 90351.3 -1744.2  
  
2772 8.0 90404.3 -1713.0  
2773 9.0 90428.9 -1721.5  
2774 10. 90431.7 -1737.7  
2775 10. 90437.9 -1750.6  
2776 9.6 90438.3 -1712.8  
2777 10. 90446.9 -1719.7  
2778 9.8 90457.0 -1700.3  
2779 9.5 90459.7 -1739.8  
2780 9.4 90501.8 -1755.0  
2781 9.5 90503.9 -1734.9  
  
2782 9.1 90506.4 -1701.3  
2783 9.8 90523.7 -1714.8  
2784 9.8 90534.5 -1727.0  
2785 9.8 90601.3 -1744.8  
2786 9.4 90606.4 -1722.4  
2787 9.8 90606.6 -1703.2  
2788 9.0 90611.7 -1738.4  
2789 9.4 90630.6 -1707.5  
2790 9.3 90638.1 -1735.8  
2791 9.8 90645.3 -1719.9

2792 9.0 90653.2 -1755.8  
2793 10. 90733.1 -1755.4  
2794 9.3 90736.6 -1736.4  
2795 10. 90800.1 -1758.0  
2796 9.2 90817.9 -1730.6  
2797 9.7 90823.8 -1724.9  
2798 9.2 90824.3 -1706.0  
2799 8.8 90829.3 -1721.8  
2800 9.5 90848.2 -1718.2  
2801 9.0 90852.8 -1751.9  
  
2802 9.8 90927.6 -1740.1  
2803 9.3 90935.7 -1741.4  
2804 8.8 90959.8 -1703.8  
2805 9.3 91004.8 -1729.3  
2806 9.6 91024.5 -1741.5  
2807 10. 91040.0 -1758.4  
2808 9.1 91048.5 -1740.3  
2809 9.7 91055.6 -1730.7  
2810 9.4 91057.4 -1729.7  
2811 10. 91113.7 -1740.9  
  
2812 10. 91114.7 -1747.9  
2813 9.1 91115.9 -1743.3  
2814 7.8 91126.0 -1738.4  
2815 9.8 91155.4 -1706.8  
2816 9.2 91156.3 -1735.9  
2817 9.5 91232.1 -1706.9  
2818 9.7 91233.1 -1745.2  
2819 9.3 91240.5 -1706.6  
2820 9.3 91249.5 -1728.1  
2821 9.1 91311.9 -1734.5  
  
2822 9.3 91314.2 -1728.7  
2823 8.5 91321.4 -1756.0  
2824 10. 91330.1 -1719.5  
2825 10. 91332.8 -1702.2  
2826 8.7 91359.4 -1737.4  
2827 10. 91421.9 -1755.9  
2828 9.0 91444.3 -1707.6  
2829 8.5 91447.4 -1708.5  
2830 9.8 91451.8 -1739.6  
2831 9.8 91509.9 -1753.2  
  
2832 9.5 91517.7 -1719.9  
2833 9.5 91519.9 -1711.4  
2834 9.4 91539.8 -1738.5  
2835 7.5 91544.0 -1716.2  
2836 9.1 91547.6 -1724.1  
2837 9.2 91554.0 -1703.4  
2838 9.8 91557.8 -1734.0  
2839 9.8 91603.4 -1749.2  
2840 9.3 91615.8 -1754.7  
2841 9.3 91617.1 -1720.8  
  
2842 10. 91642.7 -1702.2  
2843 8.7 91701.8 -1708.3  
2844 10. 91726.7 -1703.1  
2845 10. 91728.3 -1724.4  
2846 8.8 91734.7 -1750.0  
2847 8.0 91807.6 -1728.0  
2848 9.8 91810.2 -1756.4  
2849 9.6 91812.8 -1747.5  
2850 9.4 91815.2 -1708.0  
2851 9.6 91819.3 -1714.9  
  
2852 9.8 91832.2 -1752.2  
2853 9.1 91855.6 -1729.1  
2854 9.2 91856.5 -1703.7  
2855 7.0 91910.1 -1719.1  
2856 9.5 91950.7 -1706.6  
2857 8.7 91958.2 -1758.4  
2858 10. 92008.9 -1718.2  
2859 9.0 92015.2 -1733.8  
2860 9.5 92025.4 -1722.0  
2861 10. 92033.0 -1726.9  
  
2862 8.8 92101.9 -1724.4  
2863 10. 92104.3 -1712.1  
2864 9.8 92117.3 -1742.2  
2865 9.6 92120.3 -1746.7  
2866 9.8 92125.6 -1707.0  
2867 10. 92137.4 -1701.8  
2868 8.3 92200.3 -1744.9  
2869 8.8 92208.8 -1722.6  
2870 8.7 92219.7 -1709.8  
2871 9.4 92224.3 -1743.0  
  
2872 9.1 92226.5 -1700.7  
2873 8.7 92229.2 -1711.9  
2874 9.8 92254.9 -1739.4  
2875 8.7 92257.8 -1757.5  
2876 10. 92316.5 -1729.3  
2877 9.4 92317.6 -1754.5  
2878 9.8 92328.7 -1738.2  
2879 9.8 92339.6 -1755.1  
2880 10. 92352.9 -1715.0  
2881 10. 92414.2 -1744.7

2882 9.4 92418.4 -1725.7  
2883 10. 92434.7 -1717.1  
2884 9.5 92437.0 -1708.8  
2885 8.2 92440.2 -1746.9  
2886 9.1 92500.5 -1754.2  
2887 9.8 92506.4 -1704.7  
2888 9.1 92511.8 -1724.6  
2889 9.8 92528.5 -1751.5  
2890 9.3 92536.2 -1720.7  
2891 9.5 92536.5 -1752.3  
  
2892 9.3 92544.8 -1728.5  
2893 9.0 92553.9 -1705.6  
2894 9.9 92607.8 -1744.1  
2895 9.0 92627.1 -1738.2  
2896 9.8 92627.9 -1730.5  
2897 9.9 92637.0 -1755.1  
2898 9.0 92636.6 -1720.9  
2899 9.1 92741.5 -1713.6  
2900 9.3 92806.8 -1747.4  
2901 9.3 92841.0 -1714.5  
  
2902 10. 92915.0 -1740.3  
2903 9.8 92927.8 -1729.4  
2904 8.3 92929.1 -1759.6  
2905 10. 92937.0 -1742.2  
2906 10. 92956.0 -1725.4  
2907 9.5 92957.0 -1740.0  
2908 9.6 93019.1 -1722.7  
2909 9.5 93034.9 -1707.9  
2910 8.7 93035.5 -1747.3  
2911 9.7 93044.3 -1758.2  
  
2912 9.6 93051.5 -1717.0  
2913 9.1 93054.1 -1737.9  
2914 9.3 93108.7 -1705.7  
2915 10. 93109.3 -1755.5  
2916 9.1 93116.8 -1758.4  
2917 9.8 93131.9 -1740.0  
2918 9.6 93139.6 -1741.7  
2919 9.7 93141.1 -1748.0  
2920 9.6 93145.1 -1702.1  
2921 8.2 93209.7 -1731.8  
  
2922 8.3 93232.8 -1739.8  
2923 9.5 93252.3 -1741.9  
2924 8.2 93255.6 -1725.0  
2925 9.3 93309.4 -1738.1  
2926 10. 93316.5 -1718.4  
2927 10. 93316.8 -1748.0  
2928 10. 93333.8 -1746.3  
2929 9.0 93349.2 -1751.7  
2930 8.5 93349.7 -1749.6  
2931 9.2 93418.3 -1713.5  
  
2932 9.3 93426.8 -1746.9  
2933 7.7 93442.4 -1749.6  
2934 8.7 93445.6 -1713.9  
2935 9.1 93453.5 -1725.7  
2936 8.6 93500.0 -1708.3  
2937 10. 93508.1 -1759.7  
2938 9.0 93511.3 -1716.1  
2939 10. 93519.1 -1701.8  
2940 9.7 93542.7 -1748.8  
2941 9.7 93551.3 -1700.5  
  
2942 9.7 93554.5 -1704.3  
2943 9.1 93558.6 -1759.7  
2944 9.4 93558.8 -1727.6  
2945 9.8 93602.7 -1755.7  
2946 9.8 93606.0 -1755.2  
2947 10. 93648.2 -1711.9  
2948 9.4 93734.1 -1753.1  
2949 9.5 93741.0 -1740.2  
2950 9.8 93745.6 -1751.5  
2951 9.3 93753.4 -1722.3  
  
2952 6.8 93800.3 -1702.2  
2953 9.2 93807.5 -1700.8  
2954 9.1 93813.5 -1728.8  
2955 9.6 93845.1 -1744.4  
2956 9.3 93850.1 -1744.2  
2957 9.1 93850.6 -1716.4  
2958 9.2 93904.1 -1739.8  
2959 9.7 93948.3 -1723.8  
2960 9.3 93957.1 -1729.0  
2961 9.6 94010.1 -1724.9  
  
2962 9.3 94019.4 -1725.8  
2963 9.4 94022.2 -1723.6  
2964 9.8 94049.4 -1716.4  
2965 9.6 94049.5 -1720.9  
2966 10. 94053.6 -1753.4  
2967 10. 94110.6 -1724.0  
2968 8.3 94115.7 -1742.3  
2969 9.0 94117.4 -1757.0  
2970 9.0 94119.5 -1710.1  
2971 9.4 94119.7 -1745.5

-17 2971 9h41m



|      |      |         |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|---------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 2972 | 9.2  | 94157.0 | -1706.1 | 3062 | 9.4  | 95939.1  | -1725.0 | 3152 | 9.9  | 102022.9 | -1755.8 | 3242 | 9.5  | 104244.2 | -1712.9 |
| 2973 | 8.5  | 94216.9 | -1745.7 | 3063 | 9.3  | 95952.6  | -1725.5 | 3153 | 7.0  | 102024.9 | -1732.7 | 3243 | 9.6  | 104259.2 | -1700.9 |
| 2974 | 8.7  | 94217.5 | -1749.1 | 3064 | 9.2  | 95959.5  | -1717.0 | 3154 | 9.8  | 102028.9 | -1749.1 | 3244 | 8.5  | 104320.8 | -1717.3 |
| 2975 | 8.7  | 94238.6 | -1738.8 | 3065 | 9.1  | 100066.6 | -1722.5 | 3155 | 10.0 | 102034.3 | -1753.0 | 3245 | 7.0  | 104400.4 | -1733.7 |
| 2976 | 9.3  | 94252.5 | -1734.5 | 3066 | 9.2  | 100014.5 | -1742.2 | 3156 | 9.8  | 102044.6 | -1753.2 | 3246 | 9.4  | 104407.6 | -1714.2 |
| 2977 | 9.2  | 94345.9 | -1741.1 | 3067 | 9.8  | 100107.4 | -1713.7 | 3157 | 9.8  | 102046.0 | -1707.2 | 3247 | 9.0  | 104429.7 | -1714.3 |
| 2978 | 10.0 | 94352.9 | -1734.0 | 3068 | 8.2  | 100126.0 | -1742.3 | 3158 | 9.7  | 102100.5 | -1745.5 | 3248 | 9.3  | 104453.3 | -1718.0 |
| 2979 | 9.8  | 94358.6 | -1758.1 | 3069 | 9.8  | 100133.3 | -1746.7 | 3159 | 10.0 | 102102.3 | -1747.4 | 3249 | 9.5  | 104509.3 | -1752.7 |
| 2980 | 7.2  | 94418.4 | -1758.8 | 3070 | 8.7  | 100143.7 | -1747.6 | 3160 | 8.8  | 102213.5 | -1750.4 | 3250 | 10.0 | 104518.1 | -1759.0 |
| 2981 | 9.1  | 94435.1 | -1757.9 | 3071 | 9.0  | 100214.8 | -1728.5 | 3161 | 8.3  | 102234.3 | -1720.1 | 3251 | 9.4  | 104520.7 | -1718.2 |
| 2982 | 9.8  | 94438.4 | -1751.6 | 3072 | 7.2  | 100219.5 | -1725.6 | 3162 | 9.8  | 102254.0 | -1706.6 | 3252 | 8.3  | 104526.8 | -1751.8 |
| 2983 | 9.4  | 94508.8 | -1728.4 | 3073 | 9.7  | 100241.1 | -1734.1 | 3163 | 10.0 | 102257.4 | -1744.4 | 3253 | 9.1  | 104534.4 | -1700.8 |
| 2984 | 9.9  | 94513.8 | -1738.5 | 3074 | 9.1  | 100246.6 | -1733.2 | 3164 | 9.0  | 102318.0 | -1707.0 | 3254 | 9.8  | 104721.0 | -1700.7 |
| 2985 | 9.0  | 94521.7 | -1702.9 | 3075 | 9.4  | 100332.1 | -1735.4 | 3165 | 10.0 | 102343.7 | -1752.9 | 3255 | 9.8  | 104759.3 | -1757.8 |
| 2986 | 9.5  | 94523.0 | -1712.5 | 3076 | 9.2  | 100335.7 | -1756.8 | 3166 | 9.0  | 102414.6 | -1740.5 | 3256 | 9.9  | 104838.7 | -1704.6 |
| 2987 | 9.4  | 94528.2 | -1742.8 | 3077 | 9.7  | 100338.7 | -1757.4 | 3167 | 10.0 | 102422.8 | -1742.4 | 3257 | 9.5  | 104846.8 | -1720.2 |
| 2988 | 9.1  | 94534.6 | -1721.4 | 3078 | 7.5  | 100339.2 | -1753.2 | 3168 | 9.3  | 102434.3 | -1747.9 | 3258 | 9.8  | 104918.9 | -1710.0 |
| 2989 | 10.0 | 94537.8 | -1724.1 | 3079 | 9.8  | 100411.3 | -1717.5 | 3169 | 9.3  | 102441.1 | -1719.0 | 3259 | 8.3  | 104930.6 | -1753.7 |
| 2990 | 9.4  | 94543.9 | -1714.3 | 3080 | 10.0 | 100412.5 | -1731.2 | 3170 | 9.0  | 102458.7 | -1734.4 | 3260 | 9.0  | 104932.5 | -1713.7 |
| 2991 | 9.0  | 94549.2 | -1725.0 | 3081 | 9.5  | 100414.2 | -1714.4 | 3171 | 9.1  | 102500.9 | -1707.1 | 3261 | 8.4  | 104945.6 | -1743.0 |
| 2992 | 8.8  | 94553.8 | -1739.5 | 3082 | 8.8  | 100415.6 | -1716.8 | 3172 | 9.4  | 102526.9 | -1700.9 | 3262 | 8.5  | 104950.1 | -1726.8 |
| 2993 | 8.5  | 94559.4 | -1735.2 | 3083 | 9.0  | 100424.0 | -1734.5 | 3173 | 10.0 | 102534.5 | -1713.6 | 3263 | 9.6  | 105002.8 | -1745.4 |
| 2994 | 7.8  | 94630.9 | -1714.5 | 3084 | 9.1  | 100427.2 | -1751.7 | 3174 | 9.4  | 102550.6 | -1751.6 | 3264 | 8.4  | 105014.7 | -1730.7 |
| 2995 | 9.5  | 94648.3 | -1750.3 | 3085 | 9.2  | 100446.3 | -1748.1 | 3175 | 8.8  | 102551.4 | -1732.0 | 3265 | 8.4  | 105024.7 | -1731.6 |
| 2996 | 9.4  | 94715.9 | -1701.0 | 3086 | 9.8  | 100513.4 | -1724.5 | 3176 | 9.8  | 102643.5 | -1733.0 | 3266 | 9.8  | 105041.7 | -1756.0 |
| 2997 | 8.0  | 94716.8 | -1734.8 | 3087 | 9.4  | 100515.8 | -1713.3 | 3177 | 8.2  | 102650.7 | -1705.0 | 3267 | 10.0 | 105102.0 | -1726.7 |
| 2998 | 9.5  | 94720.8 | -1741.0 | 3088 | 9.3  | 100517.4 | -1753.9 | 3178 | 9.5  | 102651.2 | -1743.8 | 3268 | 9.8  | 105122.3 | -1745.0 |
| 2999 | 9.8  | 94730.4 | -1705.5 | 3089 | 9.1  | 100624.3 | -1748.2 | 3179 | 8.8  | 102655.1 | -1703.2 | 3269 | 9.8  | 105135.1 | -1729.6 |
| 3000 | 9.5  | 94756.2 | -1759.8 | 3090 | 9.8  | 100625.9 | -1754.8 | 3180 | 9.5  | 102715.5 | -1701.8 | 3270 | 9.2  | 105206.1 | -1702.8 |
| 3001 | 9.3  | 94757.3 | -1709.1 | 3091 | 9.0  | 100644.0 | -1753.0 | 3181 | 10.0 | 102736.8 | -1717.5 | 3271 | 10.0 | 105227.3 | -1722.0 |
| 3002 | 10.0 | 94803.1 | -1723.8 | 3092 | 9.8  | 100645.2 | -1717.5 | 3182 | 8.8  | 102746.5 | -1734.5 | 3272 | 9.1  | 105240.1 | -1716.2 |
| 3003 | 9.1  | 94803.7 | -1726.4 | 3093 | 9.3  | 100645.8 | -1751.7 | 3183 | 10.0 | 102802.5 | -1734.6 | 3273 | 4.0  | 105241.6 | -1731.4 |
| 3004 | 9.8  | 94824.2 | -1757.5 | 3094 | 8.6  | 100717.2 | -1710.8 | 3184 | 9.2  | 102814.0 | -1735.9 | 3274 | 9.4  | 105252.7 | -1749.9 |
| 3005 | 9.7  | 94835.6 | -1740.9 | 3095 | 9.1  | 100719.7 | -1718.8 | 3185 | 9.2  | 102820.6 | -1730.5 | 3275 | 9.4  | 105302.4 | -1739.8 |
| 3006 | 9.4  | 94837.9 | -1746.0 | 3096 | 9.5  | 100726.4 | -1727.0 | 3186 | 9.4  | 102828.3 | -1711.1 | 3276 | 9.8  | 105306.0 | -1721.8 |
| 3007 | 8.9  | 94852.0 | -1725.6 | 3097 | 9.3  | 100742.6 | -1715.7 | 3187 | 6.6  | 102836.0 | -1749.2 | 3277 | 9.3  | 105315.2 | -1702.8 |
| 3008 | 9.3  | 94852.0 | -1738.2 | 3098 | 10.0 | 100750.8 | -1759.9 | 3188 | 9.4  | 102901.5 | -1748.1 | 3278 | 9.8  | 105315.4 | -1749.2 |
| 3009 | 9.8  | 94908.9 | -1729.6 | 3099 | 8.9  | 100751.3 | -1723.7 | 3189 | 10.0 | 102908.3 | -1712.5 | 3279 | 9.8  | 105321.1 | -1732.5 |
| 3010 | 9.6  | 94910.9 | -1730.8 | 3100 | 8.9  | 100846.2 | -1742.2 | 3190 | 9.4  | 102913.4 | -1740.3 | 3280 | 9.8  | 105325.0 | -1712.2 |
| 3011 | 9.8  | 94921.7 | -1745.0 | 3101 | 9.5  | 100846.3 | -1748.3 | 3191 | 8.9  | 102930.4 | -1732.2 | 3281 | 30.0 | 105325.6 | -1732.7 |
| 3012 | 9.7  | 94926.2 | -1744.6 | 3102 | 9.1  | 100903.5 | -1757.0 | 3192 | 8.8  | 102941.1 | -1738.1 | 3282 | 8.7  | 105336.0 | -1735.4 |
| 3013 | 9.1  | 94943.1 | -1731.7 | 3103 | 8.8  | 100912.4 | -1759.4 | 3193 | 9.5  | 102953.5 | -1754.7 | 3283 | 9.8  | 105401.3 | -1708.2 |
| 3014 | 9.1  | 94959.1 | -1733.2 | 3104 | 9.5  | 100941.5 | -1708.7 | 3194 | 9.4  | 103005.1 | -1739.2 | 3284 | 9.8  | 105459.1 | -1751.0 |
| 3015 | 9.0  | 95005.5 | -1758.5 | 3105 | 9.2  | 100944.3 | -1756.8 | 3195 | 9.3  | 103012.4 | -1755.5 | 3285 | 9.8  | 105502.2 | -1717.6 |
| 3016 | 9.4  | 95010.4 | -1712.9 | 3106 | 8.2  | 100947.3 | -1735.1 | 3196 | 10.0 | 103033.0 | -1757.1 | 3286 | 9.5  | 105528.1 | -1757.4 |
| 3017 | 9.4  | 95018.3 | -1713.4 | 3107 | 9.1  | 101001.8 | -1701.0 | 3197 | 8.5  | 103034.7 | -1704.2 | 3287 | 9.6  | 105535.2 | -1719.5 |
| 3018 | 9.3  | 95125.9 | -1721.5 | 3108 | 9.4  | 101007.3 | -1755.5 | 3198 | 9.3  | 103051.4 | -1744.9 | 3288 | 9.8  | 105542.6 | -1750.3 |
| 3019 | 9.1  | 95127.4 | -1722.1 | 3109 | 9.3  | 101020.5 | -1705.4 | 3199 | 10.0 | 103116.0 | -1759.6 | 3289 | 9.1  | 105552.8 | -1732.2 |
| 3020 | 9.8  | 95154.1 | -1731.8 | 3110 | 9.0  | 101020.7 | -1700.1 | 3200 | 8.0  | 103130.1 | -1708.0 | 3290 | 9.8  | 105601.2 | -1708.4 |
| 3021 | 9.1  | 95158.8 | -1713.7 | 3111 | 9.7  | 101029.6 | -1742.5 | 3201 | 9.3  | 103155.1 | -1749.3 | 3291 | 9.9  | 105614.3 | -1724.8 |
| 3022 | 9.2  | 95200.8 | -1747.3 | 3112 | 8.9  | 101039.9 | -1744.6 | 3202 | 8.8  | 103158.9 | -1728.7 | 3292 | 9.8  | 105614.6 | -1748.7 |
| 3023 | 9.5  | 95205.6 | -1746.8 | 3113 | 9.5  | 101123.8 | -1754.5 | 3203 | 8.5  | 103211.1 | -1741.3 | 3293 | 9.5  | 105649.1 | -1714.7 |
| 3024 | 9.7  | 95225.3 | -1715.0 | 3114 | 10.0 | 101124.2 | -1750.7 | 3204 | 10.0 | 103222.8 | -1705.7 | 3294 | 10.1 | 105650.0 | -1754.8 |
| 3025 | 9.6  | 95231.5 | -1715.7 | 3115 | 9.6  | 101151.9 | -1748.9 | 3205 | 10.0 | 103248.4 | -1759.7 | 3295 | 9.4  | 105710.5 | -1752.5 |
| 3026 | 7.8  | 95252.0 | -1758.1 | 3116 | 8.3  | 101159.6 | -1722.8 | 3206 | 9.1  | 103259.2 | -1716.4 | 3296 | 9.1  | 105719.2 | -1722.1 |
| 3027 | 9.9  | 95307.1 | -1758.1 | 3117 | 9.6  | 101202.5 | -1719.6 | 3207 | 10.0 | 103304.6 | -1751.2 | 3297 | 9.5  | 105756.6 | -1715.6 |
| 3028 | 9.4  | 95310.7 | -1700.4 | 3118 | 9.5  | 101206.1 | -1753.1 | 3208 | 9.3  | 103324.7 | -1736.0 | 3298 | 9.6  | 105812.0 | -1739.5 |
| 3029 | 9.8  | 95320.5 | -1756.6 | 3119 | 9.4  | 101207.0 | -1738.2 | 3209 | 9.0  | 103328.5 | -1751.5 | 3299 | 9.1  | 105829.0 | -1752.4 |
| 3030 | 8.5  | 95328.2 | -1708.4 | 3120 | 9.5  | 101222.4 | -1705.8 | 3210 | 9.8  | 103338.5 | -1748.8 | 3300 | 10.1 | 105857.3 | -1717.8 |
| 3031 | 9.8  | 95331.2 | -1759.3 | 3121 | 9.5  | 101228.0 | -1708.9 | 3211 | 9.0  | 103341.9 | -1758.7 | 3301 | 9.1  | 105909.7 | -1758.6 |
| 3032 | 9.0  | 95331.3 | -1755.9 | 3122 | 9.3  | 101255.1 | -1720.6 | 3212 | 9.8  | 103407.0 | -1711.9 | 3302 | 9.1  | 105928.2 | -1737.0 |
| 3033 | 9.2  | 95344.9 | -1726.0 | 3123 | 9.1  | 101256.4 | -1706.5 | 3213 | 9.7  | 103419.7 | -1741.6 | 3303 | 9.0  | 110003.6 | -1735.4 |
| 3034 | 10.0 | 95346.2 | -1714.1 | 3124 | 9.2  | 101311.4 | -1728.4 | 3214 | 9.7  | 103448.3 | -1731.7 | 3304 | 8.5  | 110013.8 | -1701.0 |
| 3035 | 9.4  | 95412.6 | -1748.1 | 3125 | 10.0 | 101316.1 | -1747.7 | 3215 | 9.5  | 103515.2 | -1724.8 | 3305 | 9.5  | 110032.5 | -1721.0 |
| 3036 | 9.6  | 95436.4 | -1702.7 | 3126 | 9.5  | 101341.1 | -1753.0 | 3216 | 9.4  | 103530.2 | -1744.2 | 3306 | 9.8  | 110033.5 | -1737.4 |
| 3037 | 8.7  | 95438.4 | -1750.6 | 3127 | 9.8  | 101343.1 | -1751.5 | 3217 | 8.5  | 103532.6 | -1746.5 | 3307 | 8.6  | 110116.4 | -1719.8 |
| 3038 | 8.0  | 95506.1 | -1717.3 | 3128 | 9.7  | 101358.4 | -1744.2 | 3218 | 9.8  | 103556.2 | -1726.0 | 3308 | 9.9  | 110127.4 | -1702.9 |
| 3039 | 9.3  | 95600.6 | -1711.9 | 3129 | 6.0  | 101408.9 | -1715.0 | 3219 | 9.2  | 103625.0 | -1714.5 | 3309 | 9.4  | 110132.4 | -1704.1 |
| 3040 | 9.3  | 95605.7 | -1719.2 | 3130 | 10.0 | 101411.7 | -1700.1 | 3220 | 9.2  | 103635.2 | -1732.2 | 3310 | 9.7  | 110145.7 | -1740.6 |
| 3041 | 9.8  | 95619.4 | -1737.0 | 3131 | 9.1  | 101441.5 | -1750.3 | 3221 | 10.0 | 103657.8 | -1700.6 | 3311 | 9.5  | 110215.4 | -1711.8 |
| 3042 | 8.6  | 95619.6 | -1747.7 | 3132 | 9.2  | 101448.8 | -1751.4 | 3222 | 10.0 | 103846.0 | -1720.5 | 3312 | 10.0 | 110234.0 | -1748.7 |
| 3043 | 9.3  | 95657.9 | -1744.0 | 3133 | 7.2  | 101500.4 | -1718.3 | 3223 | 9.5  | 103849.9 | -1711.9 | 3313 | 10.0 | 110248.6 | -1756.8 |
| 3044 | 9.8  | 95658.2 | -1742.2 | 3134 | 10.0 | 101515.6 | -1755.1 | 3224 | 9.8  | 103924.7 | -1735.1 | 3314 |      |          |         |



3332 9.4 110714.6 -1750.9  
 3333 9.5 110724.6 -1707.3  
 3334 9.8 110741.1 -1734.9  
 3335 9.8 110801.8 -1745.9  
 3336 9.5 110805.3 -1719.8  
 3337 9.1 110807.1 -1719.8  
 3338 9.8 110809.9 -1705.2  
 3339 9.7 110826.0 -1746.0  
 3340 9.8 110843.5 -1720.7  
 3341 9.5 110900.7 -1730.9

3342 9.3 110914.1 -1705.0  
 3343 9.8 110927.7 -1711.2  
 3344 9.2 110933.4 -1738.2  
 3345 9.6 111000.4 -1702.4  
 3346 9.4 111038.6 -1711.8  
 3347 9.3 111059.0 -1710.8  
 3348 9.5 111107.9 -1752.5  
 3349 9.5 111116.5 -1710.1  
 3350 9.3 111133.5 -1706.4  
 3351 8.5 111140.9 -1734.2

3352 8.8 111155.3 -1743.3  
 3353 8.5 111236.4 -1706.8  
 3354 10. 111242.7 -1744.3  
 3355 9.5 111246.1 -1731.5  
 3356 9.4 111312.7 -1748.5  
 3357 9.8 111319.2 -1746.4  
 3358 9.5 111332.3 -1701.2  
 3359 9.0 111341.4 -1755.9  
 3360 9.2 111354.5 -1717.1  
 3361 9.6 111440.3 -1700.3

3362 9.7 111448.1 -1744.8  
 3363 9.1 111454.2 -1701.8  
 3364 8.8 111524.1 -1748.4  
 3365 8.9 111527.5 -1725.1  
 3366 8.7 111532.0 -1742.9  
 3367 5.3 111609.1 -1758.8  
 3368 8.0 111619.0 -1731.4  
 3369 9.5 111621.6 -1736.3  
 3370 9.6 111643.1 -1735.4  
 3371 9.8 111744.0 -1728.5

3372 7.2 111800.5 -1748.8  
 3373 9.3 111800.9 -1716.0  
 3374 9.8 111825.6 -1759.1  
 3375 9.8 111835.9 -1715.7  
 3376 9.9 111842.8 -1707.3  
 3377 9.5 111845.0 -1723.8  
 3378 9.4 111858.9 -1717.4  
 3379 8.3 111903.4 -1718.0  
 3380 8.8 111911.5 -1737.2  
 3381 9.8 111936.9 -1743.7

3382 9.7 111944.4 -1715.1  
 3383 9.6 111946.3 -1714.7  
 3384 9.1 111952.9 -1722.3  
 3385 8.8 111956.9 -1728.1  
 3386 7.4 112008.3 -1743.0  
 3387 9.4 112011.5 -1736.6  
 3388 8.2 112031.3 -1721.1  
 3389 8.3 112059.1 -1750.9  
 3390 9.5 112103.3 -1714.5  
 3391 8.7 112106.9 -1734.7

3392 9.7 112121.6 -1745.2  
 3393 10. 112137.7 -1719.1  
 3394 9.1 112220.8 -1729.4  
 3395 9.8 112232.2 -1711.2  
 3396 8.3 112226.4 -1736.8  
 3397 9.7 112234.2 -1716.5  
 3398 7.7 112243.7 -1705.1  
 3399 9.2 112245.8 -1741.6  
 3400 9.1 112259.2 -1723.2  
 3401 9.8 112332.5 -1730.2

3402 9.7 112338.0 -1700.9  
 3403 9.5 112430.6 -1703.2  
 3404 9.0 112436.4 -1726.2  
 3405 9.0 112439.6 -1757.9  
 3406 9.8 112455.0 -1756.2  
 3407 9.4 112515.2 -1732.4  
 3408 9.5 112552.5 -1706.2  
 3409 9.0 112552.5 -1754.9  
 3410 9.5 112603.1 -1728.3  
 3411 9.3 112644.4 -1714.3

3412 9.3 112645.7 -1744.5  
 3413 9.1 112645.8 -1758.5  
 3414 9.8 112703.0 -1704.2  
 3415 9.3 112704.6 -1713.9  
 3416 9.2 112745.3 -1739.7  
 3417 9.0 112754.6 -1747.9  
 3418 8.9 112826.9 -1707.7  
 3419 9.2 112841.3 -1754.0  
 3420 9.0 112906.6 -1727.4  
 3421 9.2 112925.9 -1720.6

3422 9.8 113033.1 -1706.7  
 3423 9.8 113045.8 -1757.2  
 3424 7.0 113047.0 -1723.5  
 3425 9.4 113052.9 -1743.8  
 3426 9.8 113105.4 -1713.6  
 3427 9.5 113107.5 -1754.7  
 3428 9.7 113107.9 -1745.9  
 3429 9.5 113124.9 -1715.9  
 3430 9.4 113127.5 -1738.9  
 3431 9.8 113137.8 -1708.1

3432 9.9 113210.9 -1731.8  
 3433 9.3 113218.1 -1739.7  
 3434 9.2 113219.0 -1718.2  
 3435 9.8 113237.7 -1758.7  
 3436 9.1 113239.6 -1753.6  
 3437 9.6 113245.9 -1703.6  
 3438 9.1 113269.2 -1757.3  
 3439 8.3 113309.8 -1722.1  
 3440 9.2 113314.4 -1754.0  
 3441 8.9 113320.3 -1732.4

3442 9.4 113410.1 -1700.9  
 3443 9.3 113415.2 -1757.3  
 3444 9.1 113416.2 -1738.0  
 3445 9.5 113453.2 -1713.2  
 3446 10. 113454.2 -1711.9  
 3447 9.2 113517.7 -1720.8  
 3448 9.2 113520.0 -1749.4  
 3449 8.7 113524.9 -1738.9  
 3450 9.0 113540.2 -1717.2  
 3451 9.5 113542.1 -1702.5

3452 9.1 113559.5 -1731.6  
 3453 8.0 113614.7 -1717.5  
 3454 9.1 113628.7 -1739.7  
 3455 8.3 113635.1 -1745.5  
 3456 9.7 113653.1 -1726.0  
 3457 9.3 113656.2 -1734.3  
 3458 9.2 113707.3 -1739.8  
 3459 9.8 113724.6 -1753.8  
 3460 5.0 113725.2 -1732.3  
 3461 9.6 113742.0 -1700.2

3462 9.6 113802.5 -1750.4  
 3463 9.6 113802.7 -1746.9  
 3464 9.8 113821.3 -1703.8  
 3465 9.2 113828.5 -1722.7  
 3466 9.6 113834.4 -1713.4  
 3467 9.8 113855.0 -1725.4  
 3468 10. 113919.8 -1756.2  
 3469 9.0 113923.2 -1703.5  
 3470 9.8 113956.7 -1754.9  
 3471 7.0 114001.4 -1734.4

3472 10. 114003.3 -1758.7  
 3473 9.4 114015.7 -1745.7  
 3474 9.8 114019.0 -1737.2  
 3475 9.4 114043.8 -1708.7  
 3476 9.6 114053.8 -1714.8  
 3477 10. 114059.8 -1746.8  
 3478 10. 114100.4 -1720.1  
 3479 10. 114101.3 -1741.9  
 3480 9.4 114141.4 -1723.1  
 3481 8.9 114143.9 -1742.3

3482 8.9 114210.3 -1734.8  
 3483 9.3 114217.8 -1733.5  
 3484 8.8 114234.7 -1721.7  
 3485 8.8 114319.2 -1755.8  
 3486 10. 114409.1 -1755.4  
 3487 8.2 114415.6 -1759.0  
 3488 8.2 114418.3 -1721.9  
 3489 9.3 114442.1 -1721.5  
 3490 8.7 114507.7 -1731.9  
 3491 9.8 114518.6 -1702.6

3492 8.5 114534.1 -1715.4  
 3493 9.8 114557.6 -1707.8  
 3494 9.2 114558.5 -1757.8  
 3495 10. 114602.4 -1745.3  
 3496 8.3 114640.6 -1708.7  
 3497 9.6 114654.6 -1757.1  
 3498 9.9 114656.6 -1739.8  
 3499 10. 114657.8 -1757.7  
 3500 10. 114706.5 -1754.0  
 3501 9.8 114712.2 -1749.2

3502 9.6 114721.0 -1713.5  
 3503 9.4 114731.6 -1746.1  
 3504 10. 114741.1 -1743.1  
 3505 8.7 114751.5 -1718.1  
 3506 9.5 114812.8 -1726.2  
 3507 9.4 114817.5 -1716.0  
 3508 9.8 114838.7 -1732.3  
 3509 9.7 114856.1 -1744.8  
 3510 8.8 114903.0 -1718.0  
 3511 9.8 114913.0 -1748.8

3512 9.1 114928.4 -1747.5  
 3513 9.5 114928.5 -1719.2  
 3514 8.9 114944.8 -1734.6  
 3515 9.2 114945.1 -1757.3  
 3516 9.6 115016.0 -1748.2  
 3517 8.3 115027.2 -1717.6  
 3518 10. 115028.8 -1744.2  
 3519 9.8 115039.8 -1732.8  
 3520 9.4 115040.6 -1736.3  
 3521 9.7 115055.4 -1704.4

3522 10. 115110.3 -1743.3  
 3523 9.5 115142.3 -1752.0  
 3524 9.8 115150.3 -1753.1  
 3525 9.8 115221.7 -1757.9  
 3526 9.6 115237.9 -1736.4  
 3527 8.9 115241.8 -1711.8  
 3528 9.5 115247.2 -1705.5  
 3529 8.3 115337.5 -1742.6  
 3530 9.6 115348.1 -1704.8  
 3531 10. 115348.7 -1757.6

3532 9.1 115353.4 -1734.5  
 3533 9.8 115359.3 -1713.4  
 3534 9.4 115400.3 -1720.7  
 3535 9.8 115411.7 -1743.1  
 3536 8.5 115417.2 -1759.1  
 3537 9.4 115435.1 -1700.8  
 3538 9.8 115446.8 -1729.4  
 3539 9.9 115507.2 -1757.4  
 3540 9.9 115503.7 -1718.3  
 3541 9.2 115512.4 -1736.6

3542 10. 115521.8 -1743.3  
 3543 9.5 115526.6 -1758.5  
 3544 9.7 115608.1 -1707.2  
 3545 9.7 115622.6 -1757.1  
 3546 8.5 115719.4 -1702.3  
 3547 9.3 115721.0 -1745.2  
 3548 9.8 115745.8 -1700.8  
 3549 9.6 115824.4 -1756.4  
 3550 10. 115844.3 -1737.5  
 3551 10. 115846.3 -1742.0

3552 9.5 115851.1 -1757.4  
 3553 8.5 115920.5 -1710.2  
 3554 9.5 115941.3 -1744.4  
 3555 9.1 115948.3 -1706.1  
 3556 9.3 115949.2 -1710.5  
 3557 6.9 120001.1 -1723.0  
 3558 9.3 120013.1 -1723.2  
 3559 7.8 120054.0 -1746.2  
 3560 9.4 120103.3 -1705.6  
 3561 10. 120112.5 -1721.2

3562 7.2 120118.2 -1737.4  
 3563 9.4 120145.4 -1755.2  
 3564 9.0 120147.0 -1713.3  
 3565 9.6 120159.6 -1702.9  
 3566 10. 120226.5 -1728.5  
 3567 9.6 120244.1 -1729.7  
 3568 9.1 120402.8 -1748.7  
 3569 8.3 120423.2 -1758.7  
 3570 9.5 120425.4 -1717.8  
 3571 9.0 120442.9 -1735.5

3572 9.5 120459.5 -1736.5  
 3573 9.3 120507.1 -1749.8  
 3574 9.5 120510.0 -1731.0  
 3575 9.3 120533.4 -1733.9  
 3576 9.4 120548.4 -1750.8  
 3577 9.1 120552.4 -1733.4  
 3578 10. 120622.3 -1723.4  
 3579 10. 120634.2 -1757.3  
 3580 9.1 120724.6 -1753.6  
 3581 9.5 120734.3 -1735.2

3582 9.5 120742.0 -1744.4  
 3583 9.0 120757.2 -1749.3  
 3584 8.4 120812.2 -1744.1  
 3585 9.3 120828.5 -1729.7  
 3586 9.6 120829.6 -1715.9  
 3587 10. 120850.8 -1711.5  
 3588 10. 120859.5 -1733.4  
 3589 10. 120916.4 -1717.8  
 3590 10. 120920.8 -1741.1  
 3591 9.9 120943.9 -1712.1

3592 8.7 120959.4 -1727.4  
 3593 9.5 121012.9 -1710.1  
 3594 9.9 121018.5 -1752.7  
 3595 10. 121020.0 -1738.1  
 3596 8.3 121047.0 -1754.5  
 3597 9.4 121122.6 -1743.9  
 3598 9.5 121140.8 -1716.9  
 3599 9.5 121248.7 -1719.8  
 3600 9.9 121331.2 -1728.6  
 3601 10. 121340.1 -1725.2

3602 7.8 121422.9 -1735.6  
 3603 9.9 121425.3 -1701.0  
 3604 9.8 121427.0 -1707.6  
 3605 9.7 121441.1 -1714.9  
 3606 9.2 121441.7 -1704.3  
 3607 9.5 121457.3 -1759.0  
 3608 9.2 121512.9 -1719.8  
 3609 9.8 121518.4 -1747.9  
 3610 9.4 121549.6 -1743.6  
 3611 10. 121559.9 -1731.3

3612 9.5 121606.3 -1703.3  
 3613 9.6 121620.6 -1744.5  
 3614 9.8 121658.6 -1758.3  
 3615 8.3 121702.0 -1726.5  
 3616 8.8 121718.8 -1747.0  
 3617 8.3 121721.0 -1726.4  
 3618 9.7 121750.7 -1754.9  
 3619 8.2 121806.5 -1721.4  
 3620 8.5 121809.6 -1708.1  
 3621 8.2 121828.1 -1707.5

3622 10. 121851.9 -1720.9  
 3623 9.9 121859.4 -1718.0  
 3624 9.6 121921.0 -1721.3  
 3625 9.8 121926.6 -1754.0  
 3626 6.8 121942.6 -1756.4  
 3627 9.1 122002.6 -1748.4  
 3628 8.0 122014.7 -1726.0  
 3629 7.3 122025.1 -1748.4  
 3630 9.3 122036.4 -1728.0  
 3631 9.8 122052.7 -1719.1

3632 9.0 122058.5 -1729.4  
 3633 10. 122100.6 -1703.0  
 3634 10. 122109.8 -1711.2  
 3635 9.8 122111.5 -1730.2  
 3636 8.5 122238.7 -1708.5  
 3637 9.6 122241.1 -1710.0  
 3638 9.2 122247.5 -1756.5  
 3639 9.9 122300.0 -1757.4  
 3640 9.9 122319.4 -1708.0  
 3641 9.1 122351.4 -1700.2

3642 9.3 122409.5 -1752.5  
 3643 10. 122450.2 -1700.2  
 3644 8.0 122458.4 -1756.5  
 3645 9.0 122503.7 -1732.7  
 3646 9.5 122516.0 -1716.3  
 3647 8.8 122519.5 -1741.3  
 3648 9.3 122557.3 -1726.5  
 3649 9.2 122618.2 -1703.8  
 3650 9.5 122626.7 -1735.5  
 3651 7.0 122635.3 -1723.2

3652 9.1 122649.3 -1756.0  
 3653 9.2 122657.0 -1738.2  
 3654 9.5 122707.3 -1721.2  
 3655 9.3 122720.3 -1721.8  
 3656 9.6 122728.1 -1739.9  
 3657 9.3 122729.3 -1756.5  
 3658 9.9 122752.0 -1704.4  
 3659 9.3 122808.8 -1723.6  
 3660 9.3 122851.7 -1744.1  
 3661 9.3 122909.2 -1723.1

3662 10. 122932.4 -1742.4  
 3663 9.8 123010.2 -1746.1  
 3664 9.8 123025.3 -1714.5  
 3665 8.9 123040.2 -1753.1  
 3666 9.3 123100.3 -1744.8  
 3667 8.8 123103.6 -1744.5  
 3668 6.0 123109.6 -1727.2  
 3669 8.9 123123.4 -1721.6  
 3670 9.0 123125.5 -1749.4  
 3671 9.3 123127.2 -1746.5

3672 8.5 123142.2 -1714.9  
 3673 9.1 123151.1 -1726.0  
 3674 9.8 123153.6 -1724.2  
 3675 9.7 123201.3 -1739.3  
 3676 9.3 123214.0 -1739.2  
 3677 9.6 123216.1 -1721.4  
 3678 9.9 123218.9 -1739.1  
 3679 8.5 123219.8 -1723.2  
 3680 8.4 123230.5 -1744.2  
 3681 9.5 123249.3 -1704.0

3682 9.0 123301.7 -1713.1  
 3683 9.4 123334.6 -1752.3  
 3684 10. 123340.7 -1713.4  
 3685 10. 123408.2 -1744.3  
 3686 10. 123413.5 -1751.2  
 3687 9.4 123432.6 -1712.9  
 3688 9.9 123435.2 -1745.4  
 3689 9.1 123520.8 -1706.1  
 3690 9.5 123533.7 -1738.2  
 3691 9.0 123541.9 -1729.9



3692 9.2 123551.3 -1729.7  
 3693 9.5 123555.7 -1738.4  
 3694 7.5 123616.4 -1729.3  
 3695 9.4 123627.6 -1708.6  
 3696 8.2 123653.5 -1742.1  
 3697 9.4 123657.4 -1742.3  
 3698 9.7 123708.7 -1704.6  
 3699 9.3 123721.6 -1738.6  
 3700 10. 123739.1 -1738.6  
 3701 9.5 123818.1 -1720.1

3702 9.5 123823.0 -1716.5  
 3703 9.5 123843.2 -1745.2  
 3704 7.3 123846.3 -1725.5  
 3705 9.7 123921.6 -1748.9  
 3706 9.7 123922.7 -1730.9  
 3707 9.8 123930.8 -1721.9  
 3708 9.9 123938.5 -1708.8  
 3709 9.4 123939.7 -1724.8  
 3710 10. 123945.2 -1750.2  
 3711 10. 124005.0 -1710.6

3712 10. 124021.8 -1750.5  
 3713 9.0 124027.6 -1717.6  
 3714 9.5 124053.0 -1732.7  
 3715 8.5 124250.7 -1747.7  
 3716 9.5 124318.2 -1758.4  
 3717 9.1 124321.7 -1752.1  
 3718 8.8 124325.1 -1704.2  
 3719 9.5 124345.6 -1755.0  
 3720 9.3 124428.1 -1705.4  
 3721 9.1 124429.0 -1700.5

3722 9.0 124446.1 -1724.7  
 3723 8.2 124533.3 -1742.3  
 3724 9.4 124551.5 -1728.2  
 3725 9.0 124619.6 -1714.8  
 3726 7.0 124621.6 -1714.9  
 3727 9.3 124623.7 -1706.2  
 3728 9.5 124641.3 -1702.9  
 3729 9.2 124659.3 -1704.2  
 3730 8.5 124707.3 -1733.7  
 3731 9.6 124715.0 -1758.7

3732 10. 124720.7 -1715.0  
 3733 9.2 124733.5 -1745.5  
 3734 10. 124812.2 -1735.1  
 3735 10. 124822.9 -1745.0  
 3736 9.0 124832.5 -1758.2  
 3737 8.9 124833.4 -1727.5  
 3738 9.1 124846.3 -1732.7  
 3739 9.0 124913.3 -1748.4  
 3740 9.5 124915.4 -1709.2  
 3741 9.9 124953.5 -1710.0

3742 8.9 125027.8 -1722.2  
 3743 9.6 125053.3 -1723.7  
 3744 9.7 125122.4 -1737.0  
 3745 9.8 125143.2 -1729.2  
 3746 9.7 125157.5 -1748.6  
 3747 9.6 125200.5 -1720.3  
 3748 9.3 125231.2 -1743.4  
 3749 9.0 125233.0 -1746.5  
 3750 9.4 125308.7 -1759.2  
 3751 7.0 125329.8 -1720.6

3752 7.8 125341.6 -1706.0  
 3753 9.1 125408.1 -1706.0  
 3754 9.9 125443.9 -1748.5  
 3755 9.3 125451.0 -1756.5  
 3756 9.8 125503.3 -1705.1  
 3757 7.5 125510.0 -1729.4  
 3758 10. 125511.1 -1726.5  
 3759 9.6 125528.1 -1700.3  
 3760 8.8 125542.3 -1718.8  
 3761 9.5 125549.5 -1733.7

3762 9.5 125621.4 -1705.4  
 3763 9.9 125631.5 -1743.2  
 3764 9.5 125645.0 -1730.8  
 3765 9.7 125647.1 -1732.3  
 3766 9.0 125705.4 -1708.0  
 3767 9.7 125745.3 -1746.8  
 3768 6.8 125804.0 -1728.6  
 3769 8.6 125814.5 -1742.6  
 3770 9.5 125828.9 -1707.0  
 3771 8.9 125832.8 -1745.6

3772 9.7 125900.6 -1757.3  
 3773 10. 125929.3 -1707.3  
 3774 7.8 130007.6 -1713.4  
 3775 8.9 130046.7 -1708.1  
 3776 9.5 130059.5 -1721.3  
 3777 10. 130121.4 -1752.8  
 3778 9.7 130142.8 -1759.5  
 3779 9.4 130149.1 -1756.9  
 3780 9.5 130151.7 -1741.7  
 3781 10. 130216.1 -1704.8

3782 10. 130236.2 -1722.7  
 3783 9.0 130236.9 -1743.6  
 3784 9.1 130254.6 -1708.0  
 3785 9.8 130316.5 -1744.1  
 3786 9.0 130357.0 -1704.2  
 3787 9.5 130404.3 -1752.2  
 3788 9.5 130426.5 -1737.9  
 3789 9.8 130443.3 -1750.9  
 3790 9.8 130459.3 -1722.7  
 3791 10. 130500.2 -1708.4

3792 9.3 130528.5 -1736.6  
 3793 9.5 130529.7 -1741.5  
 3794 9.1 130605.4 -1747.6  
 3795 9.1 130609.3 -1753.9  
 3796 9.5 130615.2 -1731.2  
 3797 9.3 130617.3 -1715.6  
 3798 9.5 130629.3 -1700.0  
 3799 9.7 130655.4 -1712.9  
 3800 9.8 130656.7 -1727.2  
 3801 9.8 130658.4 -1746.8

3802 9.8 130746.7 -1713.9  
 3803 10. 130754.0 -1739.9  
 3804 9.6 130824.9 -1747.6  
 3805 9.6 130830.1 -1756.3  
 3806 9.8 130902.5 -1735.7  
 3807 9.2 130912.1 -1749.4  
 3808 8.8 130923.1 -1708.4  
 3809 9.8 130929.5 -1712.6  
 3810 9.5 130957.0 -1728.5  
 3811 8.9 131025.3 -1733.2

3812 9.5 131040.7 -1717.8  
 3813 5.0 131047.9 -1730.6  
 3814 9.8 131053.9 -1705.6  
 3815 9.3 131054.5 -1728.2  
 3816 9.5 131140.5 -1723.2  
 3817 10. 131144.3 -1733.7  
 3818 9.2 131145.0 -1723.3  
 3819 9.2 131147.8 -1745.9  
 3820 9.1 131154.8 -1745.8  
 3821 9.4 131206.4 -1728.2

3822 9.4 131211.7 -1711.5  
 3823 8.5 131236.0 -1724.6  
 3824 10. 131245.3 -1706.7  
 3825 9.5 131248.7 -1709.6  
 3826 8.3 131250.9 -1739.9  
 3827 9.3 131252.6 -1713.6  
 3828 9.5 131304.7 -1737.3  
 3829 7.0 131400.2 -1758.9  
 3830 9.5 131407.6 -1708.7  
 3831 9.0 131417.6 -1710.0

3832 9.9 131437.3 -1726.1  
 3833 8.2 131458.7 -1715.7  
 3834 9.1 131459.0 -1718.5  
 3835 9.1 131502.1 -1757.1  
 3836 8.9 131505.7 -1732.7  
 3837 8.9 131508.8 -1726.6  
 3838 9.4 131513.4 -1704.4  
 3839 8.9 131519.1 -1705.4  
 3840 9.3 131524.7 -1734.2  
 3841 8.3 131603.3 -1729.7

3842 9.7 131606.9 -1745.3  
 3843 8.8 131633.6 -1737.8  
 3844 8.5 131750.4 -1749.8  
 3845 9.8 131759.4 -1702.7  
 3846 9.8 131811.5 -1745.5  
 3847 9.5 131826.1 -1735.0  
 3848 9.5 131911.5 -1754.5  
 3849 9.0 131918.5 -1756.3  
 3850 7.3 131923.4 -1710.3  
 3851 8.5 131947.3 -1716.7

3852 10. 132000.7 -1722.2  
 3853 8.9 132012.5 -1733.1  
 3854 9.5 132018.0 -1737.8  
 3855 9.7 132050.9 -1745.0  
 3856 9.7 132051.6 -1742.0  
 3857 8.7 132100.0 -1727.8  
 3858 9.3 132100.1 -1714.6  
 3859 10. 132117.5 -1730.0  
 3860 9.5 132123.2 -1718.2  
 3861 9.1 132126.2 -1716.7

3862 7.0 132139.4 -1758.6  
 3863 9.9 132144.5 -1700.2  
 3864 10. 132145.5 -1731.0  
 3865 10. 132158.7 -1752.9  
 3866 9.6 132220.3 -1742.8  
 3867 9.3 132224.9 -1731.8  
 3868 10. 132234.3 -1741.6  
 3869 9.1 132243.5 -1701.6  
 3870 9.3 132250.0 -1709.8  
 3871 10. 132258.2 -1713.3

3872 8.1 132312.7 -1746.1  
 3873 9.8 132314.6 -1751.6  
 3874 9.3 132335.1 -1719.1  
 3875 9.8 132336.5 -1759.8  
 3876 9.5 132342.9 -1701.8  
 3877 6.4 132414.1 -1758.7  
 3878 10. 132417.3 -1752.0  
 3879 9.7 132446.3 -1741.1  
 3880 9.2 132453.7 -1717.2  
 3881 8.7 132458.3 -1700.7

3882 10. 132508.3 -1751.8  
 3883 8.5 132540.7 -1745.8  
 3884 10. 132602.2 -1748.9  
 3885 9.6 132603.6 -1734.8  
 3886 9.7 132608.9 -1722.5  
 3887 9.8 132616.0 -1744.7  
 3888 9.1 132625.9 -1723.7  
 3889 10. 132651.8 -1740.3  
 3890 9.6 132751.6 -1730.8  
 3891 9.5 132813.1 -1758.3

3892 9.1 132819.8 -1722.4  
 3893 9.5 133013.6 -1729.3  
 3894 9.3 133022.6 -1742.5  
 3895 9.0 133035.8 -1704.1  
 3896 9.8 133133.2 -1756.8  
 3897 10. 133136.5 -1736.6  
 3898 9.5 133201.1 -1739.8  
 3899 9.0 133210.2 -1739.4  
 3900 10. 133235.0 -1701.0  
 3901 9.2 133235.3 -1704.3

3902 9.4 133258.4 -1746.8  
 3903 7.7 133301.2 -1703.0  
 3904 10. 133320.5 -1740.8  
 3905 9.4 133323.6 -1736.7  
 3906 9.4 133343.8 -1738.1  
 3907 8.0 133352.3 -1749.2  
 3908 9.6 133412.9 -1705.9  
 3909 9.5 133440.6 -1756.2  
 3910 8.3 133528.2 -1717.1  
 3911 10. 133533.8 -1713.5

3912 9.6 133536.5 -1715.6  
 3913 9.1 133543.2 -1705.5  
 3914 8.7 133550.6 -1721.6  
 3915 9.9 133600.8 -1748.6  
 3916 9.5 133619.1 -1717.7  
 3917 9.6 133639.6 -1747.0  
 3918 7.5 133639.7 -1712.3  
 3919 9.5 133711.5 -1723.1  
 3920 9.3 133715.5 -1721.5  
 3921 9.8 133748.3 -1743.5

3922 9.0 133748.5 -1701.0  
 3923 9.8 133750.1 -1732.1  
 3924 9.1 133812.5 -1749.3  
 3925 9.5 133815.7 -1732.5  
 3926 8.5 133826.1 -1716.6  
 3927 9.4 133842.8 -1728.0  
 3928 9.1 133844.9 -1754.2  
 3929 8.9 133903.5 -1720.3  
 3930 8.5 133909.8 -1705.7  
 3931 8.5 133932.6 -1734.7

3932 6.0 133932.7 -1707.6  
 3933 9.9 133944.5 -1749.6  
 3934 7.7 134002.3 -1751.0  
 3935 9.4 134010.2 -1727.4  
 3936 9.5 134014.4 -1748.2  
 3937 5.4 134159.6 -1724.5  
 3938 9.0 134203.8 -1707.0  
 3939 9.8 134216.0 -1719.4  
 3940 9.7 134220.5 -1713.0  
 3941 9.7 134241.3 -1701.0

3942 9.1 134244.4 -1707.6  
 3943 10. 134232.1 -1719.5  
 3944 8.5 134339.7 -1738.0  
 3945 9.5 134354.2 -1725.3  
 3946 9.5 134413.2 -1754.1  
 3947 9.3 134414.4 -1741.2  
 3948 9.5 134433.0 -1724.6  
 3949 7.0 134444.5 -1759.5  
 3950 9.0 134454.9 -1757.7  
 3951 10. 134456.5 -1709.0

3952 9.4 134570.7 -1732.5  
 3953 10. 134605.0 -1744.2  
 3954 9.2 134605.2 -1713.5  
 3955 9.1 134621.7 -1711.2  
 3956 9.5 134622.0 -1741.9  
 3957 9.8 134628.2 -1713.8  
 3958 8.5 134637.4 -1714.5  
 3959 8.9 134654.5 -1700.9  
 3960 9.8 134746.6 -1712.7  
 3961 8.0 134752.1 -1732.4

3962 9.4 134759.6 -1712.0  
 3963 9.8 134819.3 -1724.6  
 3964 9.4 134832.5 -1726.1  
 3965 9.4 134836.5 -1756.2  
 3966 9.0 134919.7 -1744.5  
 3967 9.3 134935.1 -1713.0  
 3968 9.5 135017.0 -1741.7  
 3969 9.0 135019.4 -1754.4  
 3970 8.8 135106.2 -1723.9  
 3971 7.3 135107.4 -1755.0

3972 8.8 135138.6 -1708.3  
 3973 9.6 135147.4 -1754.1  
 3974 9.4 135202.1 -1710.5  
 3975 10. 135204.1 -1743.1  
 3976 6.3 135205.2 -1714.7  
 3977 10. 135226.3 -1719.7  
 3978 8.7 135237.4 -1758.5  
 3979 9.2 135259.7 -1724.5  
 3980 9.6 135331.8 -1753.2  
 3981 9.5 135333.1 -1704.2

3982 8.5 135356.7 -1711.2  
 3983 9.4 135406.7 -1723.5  
 3984 9.0 135434.2 -1701.7  
 3985 9.1 135440.5 -1747.0  
 3986 9.4 135500.7 -1720.9  
 3987 9.0 135521.2 -1701.3  
 3988 9.1 135528.4 -1748.3  
 3989 9.1 135540.1 -1744.4  
 3990 9.2 135607.8 -1709.9  
 3991 10. 135608.2 -1741.6

3992 10. 135629.7 -1720.0  
 3993 9.4 135643.1 -1750.4  
 3994 10. 135646.1 -1719.7  
 3995 9.5 135647.0 -1725.4  
 3996 9.3 135652.9 -1739.9  
 3997 9.4 135656.3 -1740.1  
 3998 9.4 135659.3 -1732.7  
 3999 10. 135710.7 -1754.3  
 4000 9.0 135719.4 -1708.1  
 4001 9.5 135724.3 -1712.5

4002 8.6 135741.8 -1722.5  
 4003 9.0 135742.7 -1723.1  
 4004 10. 135744.5 -1704.0  
 4005 9.3 135746.2 -1736.7  
 4006 10. 135809.9 -1729.1  
 4007 9.7 135837.4 -1701.1  
 4008 8.7 135851.8 -1708.6  
 4009 9.5 135901.7 -1706.4  
 4010 8.7 135936.0 -1718.0  
 4011 9.2 140013.2 -1710.4

4012 9.5 140050.9 -1725.6  
 4013 8.7 140054.2 -1702.6  
 4014 9.4 140101.7 -1734.4  
 4015 7.7 140103.2 -1748.5  
 4016 10. 140112.6 -1738.0  
 4017 9.2 140131.5 -1736.0  
 4018 10. 140133.1 -1752.2  
 4019 9.1 140141.5 -1728.2  
 4020 10. 140201.4 -1702.9  
 4021 10. 140215.1 -1747.5

4022 9.0 140235.9 -1718.5  
 4023 10. 140236.9 -1731.1  
 4024 9.6 140327.3 -1723.1  
 4025 8.6 140355.4 -1711.8  
 4026 9.8 140405.5 -1704.2  
 4027 9.0 140418.3 -1721.2  
 4028 9.8 140432.3 -1722.7  
 4029 9.4 140434.3 -1701.1  
 4030 9.4 140443.6 -1728.3  
 4031 10. 140516.0 -1701.0

4032 9.8 140518.4 -1700.8  
 4033 9.1 140554.9 -1758.2  
 4034 9.1 140608.5 -1711.8  
 4035 9.9 140610.1 -1708.4  
 4036 8.9 140613.3 -1721.1  
 4037 9.4 140627.8 -1706.2  
 4038 8.5 140630.8 -1740.1  
 4039 8.2 140647.0 -1745.3  
 4040 9.6 140652.6 -1749.3  
 4041 9.8 140653.2 -1722.8

4042 9.2 140654.3 -1731.3  
 4043 9.0 140655.3 -1756.5  
 4044 9.6 140659.1 -1749.9  
 4045 9.5 140701.9 -1700.9  
 4046 6.0 140725.4 -1731.4  
 4047 9.2 140729.6 -1726.5  
 4048 9.4 140734.7 -1701.4  
 4049 8.8 140804.3 -1744.8  
 4050 10. 140806.5 -1752.2  
 4051 9.1 140840.9 -1713.1



-17 4052 14h08m

4052 9.8 140852.4 -1735.7  
4053 6.5 140903.7 -1754.5  
4054 9.5 140919.3 -1726.1  
4055 9.1 140920.3 -1700.8  
4056 8.7 140922.0 -1749.0  
4057 8.8 140925.3 -1704.9  
4058 9.9 140947.5 -1725.5  
4059 9.4 140956.5 -1726.2  
4060 9.3 141012.4 -1708.8  
4061 8.8 141018.0 -1703.9  
  
4062 9.2 141031.3 -1700.6  
4063 9.3 141042.2 -1758.5  
4064 9.1 141052.0 -1724.6  
4065 7.8 141125.7 -1751.1  
4066 9.9 141130.4 -1731.0  
4067 9.5 141158.7 -1702.8  
4068 10. 141230.1 -1744.1  
4069 8.7 141300.8 -1707.7  
4070 10. 141317.3 -1737.3  
4071 9.5 141323.8 -1744.2  
  
4072 9.0 141330.2 -1717.7  
4073 9.8 141430.5 -1751.8  
4074 9.7 141437.0 -1756.9  
4075 9.5 141446.2 -1708.4  
4076 9.0 141449.6 -1723.6  
4077 9.5 141458.5 -1718.0  
4078 8.6 141505.9 -1723.5  
4079 9.7 141528.5 -1732.7  
4080 9.9 141529.9 -1703.8  
4081 10. 141552.3 -1745.7  
  
4082 9.3 141629.1 -1700.3  
4083 8.5 141633.4 -1726.6  
4084 9.4 141635.3 -1755.0  
4085 9.9 141701.5 -1749.2  
4086 9.8 141745.5 -1751.2  
4087 9.4 141807.8 -1744.9  
4088 9.6 141829.4 -1733.3  
4089 10. 141838.8 -1744.6  
4090 9.1 141900.4 -1744.1  
4091 9.4 141906.7 -1719.6  
  
4092 8.8 141923.4 -1745.0  
4093 9.7 141937.3 -1750.7  
4094 9.4 141954.1 -1727.4  
4095 9.6 141959.3 -1717.1  
4096 9.8 142018.2 -1736.5  
4097 9.5 142058.6 -1748.1  
4098 9.6 142121.5 -1757.0  
4099 8.8 142127.2 -1736.2  
4100 9.1 142132.4 -1731.8  
4101 10. 142143.0 -1737.2  
  
4102 9.2 142144.6 -1721.6  
4103 9.4 142202.7 -1742.2  
4104 10. 142319.0 -1733.1  
4105 9.4 142359.6 -1725.8  
4106 9.2 142405.1 -1727.0  
4107 9.6 142405.9 -1721.7  
4108 9.6 142407.8 -1737.5  
4109 9.5 142412.9 -1752.0  
4110 8.0 142419.7 -1714.2  
4111 10. 142439.0 -1746.4  
  
4112 9.2 142440.0 -1751.7  
4113 9.3 142455.5 -1714.1  
4114 9.1 142504.9 -1723.7  
4115 9.3 142547.3 -1712.1  
4116 9.5 142548.5 -1746.5  
4117 9.5 142643.9 -1708.9  
4118 9.9 142721.9 -1733.5  
4119 9.0 142739.9 -1704.4  
4120 9.3 142742.0 -1729.8  
4121 9.7 142744.8 -1751.8  
  
4122 8.5 142745.1 -1724.2  
4123 9.5 142818.0 -1720.0  
4124 9.8 142831.2 -1741.7  
4125 9.8 142836.4 -1746.6  
4126 8.8 142903.8 -1741.9  
4127 9.2 142908.7 -1746.7  
4128 9.1 142942.8 -1710.9  
4129 10. 142956.3 -1716.6  
4130 9.8 143004.2 -1719.8  
4131 9.4 143012.4 -1714.3  
  
4132 10. 143015.0 -1728.3  
4133 8.5 143025.7 -1714.6  
4134 9.3 143044.9 -1726.2  
4135 9.5 143058.8 -1735.3  
4136 8.9 143110.9 -1706.3  
4137 9.8 143116.7 -1758.5  
4138 7.8 143119.4 -1715.5  
4139 9.5 143121.2 -1715.6  
4140 9.8 143137.7 -1750.5  
4141 9.4 143143.6 -1750.0

4142 30.0 143218.0 -1701.8  
4143 10. 143227.3 -1728.5  
4144 8.5 143228.7 -1709.4  
4145 9.9 143230.5 -1731.1  
4146 9.1 143243.3 -1721.5  
4147 10. 143247.9 -1741.4  
4148 9.5 143336.1 -1757.1  
4149 9.6 143342.6 -1725.1  
4150 9.4 143402.5 -1731.8  
4151 9.9 143407.3 -1710.7  
  
4152 8.3 143411.6 -1711.9  
4153 10. 143412.5 -1759.4  
4154 8.4 143421.6 -1741.9  
4155 8.9 143424.1 -1755.7  
4156 9.6 143425.0 -1714.8  
4157 8.7 143436.0 -1743.3  
4158 9.7 143500.2 -1720.8  
4159 9.3 143530.3 -1717.2  
4160 10. 143544.1 -1746.7  
4161 9.9 143557.8 -1742.6  
  
4162 9.5 143602.7 -1739.9  
4163 10. 143609.5 -1757.4  
4164 9.3 143621.8 -1746.1  
4165 10. 143627.0 -1744.6  
4166 9.5 143644.6 -1705.2  
4167 9.8 143655.8 -1749.4  
4168 9.9 143708.6 -1753.3  
4169 8.0 143714.6 -1723.1  
4170 10. 143739.9 -1749.9  
4171 8.4 143743.5 -1743.5  
  
4172 7.3 143747.9 -1704.8  
4173 9.6 143757.8 -1752.0  
4174 9.3 143826.6 -1739.6  
4175 9.3 143837.8 -1744.3  
4176 9.4 143911.9 -1753.9  
4177 9.1 143914.4 -1752.5  
4178 9.1 143931.0 -1749.6  
4179 9.8 144005.6 -1713.8  
4180 8.8 144023.9 -1727.0  
4181 9.5 144024.6 -1756.3  
  
4182 9.5 144029.5 -1729.1  
4183 10. 144127.1 -1716.1  
4184 9.5 144143.8 -1729.0  
4185 9.2 144149.8 -1705.2  
4186 9.8 144155.1 -1748.3  
4187 8.9 144208.0 -1742.5  
4188 9.8 144220.5 -1711.6  
4189 9.6 144221.3 -1701.5  
4190 9.6 144228.5 -1704.3  
4191 9.6 144312.8 -1749.0  
  
4192 8.9 144316.0 -1736.3  
4193 8.8 144318.8 -1716.4  
4194 8.9 144320.7 -1707.1  
4195 8.7 144324.7 -1754.9  
4196 6.7 144328.7 -1710.4  
4197 9.1 144329.0 -1755.0  
4198 10. 144330.9 -1718.6  
4199 10. 144337.7 -1749.6  
4200 6.4 144343.5 -1745.3  
4201 9.6 144357.8 -1707.5  
  
4202 8.3 144400.8 -1713.5  
4203 9.5 144430.1 -1746.9  
4204 9.2 144510.1 -1745.5  
4205 9.6 144512.1 -1742.9  
4206 9.8 144517.2 -1759.7  
4207 10. 144534.1 -1744.6  
4208 9.4 144535.1 -1721.3  
4209 9.3 144612.2 -1734.4  
4210 9.5 144657.8 -1740.6  
4211 8.5 144705.2 -1734.1  
  
4212 9.8 144726.7 -1731.8  
4213 9.7 144736.2 -1707.7  
4214 8.2 144741.2 -1746.2  
4215 9.7 144848.0 -1743.9  
4216 10. 144858.2 -1751.2  
4217 10. 144903.6 -1753.8  
4218 10. 144909.9 -1742.0  
4219 8.9 144927.7 -1720.8  
4220 9.0 144938.7 -1725.7  
4221 9.7 144958.5 -1745.4  
  
4222 9.5 145000.4 -1715.9  
4223 9.4 145015.4 -1744.2  
4224 9.3 145027.6 -1759.6  
4225 8.7 145035.2 -1705.6  
4226 9.2 145055.1 -1734.5  
4227 9.6 145100.4 -1704.9  
4228 10. 145109.3 -1744.5  
4229 9.5 145120.6 -1727.7  
4230 9.7 145154.6 -1731.0  
4231 9.3 145155.4 -1702.9

4232 9.9 145202.2 -1746.5  
4233 9.2 145230.6 -1752.2  
4234 9.4 145239.2 -1744.5  
4235 9.5 145307.8 -1737.9  
4236 9.3 145314.5 -1733.5  
4237 9.3 145346.6 -1728.5  
4238 9.3 145349.5 -1729.6  
4239 9.6 145404.3 -1716.8  
4240 8.8 145434.8 -1752.0  
4241 8.8 145436.1 -1723.3  
  
4242 9.5 145436.4 -1706.4  
4243 6.8 145458.3 -1703.5  
4244 10. 145518.5 -1731.0  
4245 9.8 145524.3 -1720.1  
4246 8.2 145622.4 -1719.9  
4247 8.9 145623.9 -1719.9  
4248 9.6 145658.9 -1748.6  
4249 8.9 145708.8 -1718.6  
4250 9.9 145716.7 -1722.0  
4251 9.3 145835.4 -1704.0  
  
4252 8.6 145842.4 -1732.0  
4253 9.5 145902.3 -1722.0  
4254 9.7 145913.3 -1703.1  
4255 9.5 145936.8 -1704.4  
4256 9.3 145954.7 -1750.8  
4257 9.5 150018.7 -1754.7  
4258 9.9 150036.1 -1739.2  
4259 8.3 150109.9 -1727.4  
4260 8.8 150119.2 -1750.5  
4261 9.9 150147.0 -1720.6  
  
4262 9.5 150156.2 -1757.0  
4263 7.5 150201.3 -1730.0  
4264 9.6 150203.2 -1707.2  
4265 9.1 150221.1 -1739.6  
4266 9.8 150238.4 -1742.7  
4267 9.1 150239.6 -1712.7  
4268 9.3 150329.5 -1714.6  
4269 9.6 150330.4 -1702.2  
4270 9.1 150338.5 -1712.3  
4271 10. 150346.6 -1710.0  
  
4272 8.9 150353.7 -1738.6  
4273 7.0 150414.8 -1732.2  
4274 9.5 150425.3 -1723.1  
4275 9.8 150446.1 -1710.0  
4276 9.6 150447.5 -1700.1  
4277 9.4 150449.0 -1739.0  
4278 9.3 150512.8 -1750.7  
4279 10. 150515.2 -1731.3  
4280 9.2 150534.6 -1741.1  
4281 9.1 150534.9 -1757.1  
  
4282 9.3 150543.2 -1747.9  
4283 7.0 150616.1 -1752.7  
4284 8.7 150618.1 -1753.5  
4285 5.5 150623.5 -1713.4  
4286 10. 150630.1 -1738.3  
4287 9.6 150637.0 -1736.9  
4288 9.7 150724.9 -1739.0  
4289 9.7 150739.7 -1746.0  
4290 9.6 150815.7 -1722.9  
4291 10. 150817.9 -1713.5  
  
4292 9.3 150834.9 -1711.9  
4293 9.2 150845.3 -1716.0  
4294 9.6 150950.4 -1714.2  
4295 10. 151001.5 -1752.5  
4296 9.1 151007.6 -1758.7  
4297 9.8 151018.7 -1738.7  
4298 9.5 151027.0 -1751.8  
4299 9.9 151036.9 -1736.1  
4300 7.8 151114.7 -1745.4  
4301 9.1 151116.6 -1748.2  
  
4302 9.2 151120.5 -1719.3  
4303 10. 151122.2 -1721.1  
4304 10. 151138.9 -1739.4  
4305 9.8 151142.4 -1757.6  
4306 10. 151149.6 -1726.7  
4307 9.1 151157.4 -1740.8  
4308 9.4 151211.9 -1710.0  
4309 9.5 151213.7 -1720.7  
4310 9.1 151214.1 -1726.1  
4311 9.7 151232.4 -1704.0  
  
4312 6.0 151241.4 -1737.9  
4313 9.3 151241.9 -1756.8  
4314 8.8 151305.0 -1741.5  
4315 9.8 151333.5 -1750.4  
4316 8.8 151346.3 -1709.1  
4317 8.8 151401.3 -1743.9  
4318 9.9 151426.8 -1756.2  
4319 9.2 151520.0 -1726.6  
4320 10. 151524.9 -1728.7  
4321 9.4 151550.7 -1713.9

-17 4411 15h35m

4322 9.1 151559.9 -1701.5  
4323 9.5 151600.6 -1755.2  
4324 9.4 151628.2 -1714.8  
4325 9.2 151636.3 -1751.8  
4326 9.3 151706.6 -1704.7  
4327 10. 151724.2 -1704.3  
4328 9.4 151724.3 -1735.1  
4329 9.6 151754.1 -1749.9  
4330 8.7 151809.4 -1729.1  
4331 9.7 151809.7 -1739.2  
  
4332 10. 151815.0 -1719.1  
4333 9.5 151816.3 -1704.3  
4334 10. 151833.1 -1718.0  
4335 9.1 151834.1 -1729.6  
4336 9.7 151845.2 -1756.1  
4337 9.4 151859.8 -1735.4  
4338 9.8 151927.7 -1753.6  
4339 9.8 151935.1 -1708.5  
4340 9.1 152057.0 -1713.2  
4341 9.6 152102.4 -1724.5  
  
4342 9.6 152103.0 -1712.2  
4343 9.3 152109.0 -1748.3  
4344 8.6 152146.6 -1756.3  
4345 9.5 152151.2 -1739.7  
4346 9.3 152159.0 -1711.5  
4347 9.3 152159.2 -1736.4  
4348 9.4 152159.8 -1742.3  
4349 10. 152212.8 -1759.3  
4350 9.7 152216.2 -1741.8  
4351 9.4 152217.2 -1728.2  
  
4352 9.6 152245.7 -1752.0  
4353 9.8 152247.5 -1732.8  
4354 10. 152252.7 -1730.8  
4355 9.6 152327.3 -1700.8  
4356 8.5 152342.4 -1759.5  
4357 9.6 152344.3 -1738.1  
4358 10. 152353.9 -1752.0  
4359 9.5 152423.2 -1758.0  
4360 9.5 152423.8 -1725.0  
4361 9.0 152433.2 -1726.2  
  
4362 9.1 152437.9 -1716.1  
4363 9.8 152441.3 -1725.7  
4364 10. 152524.0 -1746.6  
4365 9.5 152548.0 -1759.5  
4366 9.7 152606.1 -1731.7  
4367 9.3 152613.5 -1721.0  
4368 8.7 152613.6 -1712.3  
4369 9.9 152618.0 -1706.0  
4370 9.5 152623.1 -1735.7  
4371 9.5 152650.6 -1730.6  
  
4372 8.8 152718.3 -1705.2  
4373 9.4 152720.4 -1700.0  
4374 10. 152812.5 -1732.5  
4375 9.4 152815.9 -1712.4  
4376 10. 152826.7 -1705.9  
4377 9.4 152829.1 -1741.8  
4378 9.3 152848.5 -1734.3  
4379 8.0 152857.1 -1751.3  
4380 9.0 152957.7 -1733.0  
4381 9.5 152914.9 -1740.9  
  
4382 9.8 152918.2 -1748.4  
4383 9.9 152930.7 -1726.1  
4384 10. 153003.6 -1740.0  
4385 9.4 153003.8 -1704.9  
4386 8.6 153013.9 -1758.1  
4387 9.7 153016.5 -1736.0  
4388 7.2 153025.9 -1711.0  
4389 9.1 153029.5 -1731.5  
4390 9.6 153036.6 -1721.5  
4391 9.9 153037.6 -1719.5  
  
4392 9.8 153040.2 -1715.9  
4393 9.1 153114.0 -1749.9  
4394 9.1 153114.9 -1752.4  
4395 9.2 153204.3 -1703.1  
4396 9.1 153206.4 -1745.3  
4397 9.1 153206.8 -1721.5  
4398 9.5 153207.7 -1749.8  
4399 9.0 153216.9 -1734.9  
4400 9.8 153252.6 -1715.5  
4401 9.8 153309.3 -1750.4  
  
4402 10. 153330.4 -1736.4  
4403 9.4 153431.3 -1735.0  
4404 10. 153444.2 -1744.3  
4405 9.1 153449.9 -1714.2  
4406 9.1 153452.3 -1753.1  
4407 10. 153529.6 -1749.1  
4408 9.4 153530.9 -1728.8  
4409 9.4 153531.7 -1720.6  
4410 9.4 153535.1 -1714.4  
4411 9.8 153545.2 -1756.0



|                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 4412 9.6 153554.7 -1741.5  | 4502 6.5 160134.4 -1757.1  | 4592 9.1 162343.0 -1727.5  | 4682 9.5 165226.1 -1749.0  |
| 4413 9.2 153635.6 -1714.4  | 4503 9.8 160153.5 -1735.3  | 4593 9.3 162354.6 -1757.6  | 4683 9.6 165245.4 -1728.3  |
| 4414 9.5 153710.9 -1721.1  | 4504 9.5 160153.9 -1728.2  | 4594 9.0 162400.8 -1741.2  | 4684 9.5 165246.6 -1736.6  |
| 4415 9.1 153746.2 -1743.1  | 4505 9.6 160158.9 -1746.2  | 4595 9.1 162410.2 -1719.6  | 4685 7.2 165248.0 -1707.0  |
| 4416 9.5 153753.7 -1746.6  | 4506 9.5 160220.6 -1735.6  | 4596 9.1 162429.2 -1700.1  | 4686 9.7 165248.2 -1730.6  |
| 4417 8.9 153804.6 -1741.0  | 4507 9.8 160227.3 -1730.2  | 4597 9.9 162432.1 -1727.9  | 4687 10.1 165250.8 -1739.2 |
| 4418 9.5 153815.9 -1744.4  | 4508 8.3 160255.7 -1743.9  | 4598 9.5 162502.5 -1757.0  | 4688 9.1 165302.6 -1701.9  |
| 4419 9.5 153819.0 -1711.6  | 4509 10.1 160311.9 -1729.4 | 4599 9.5 162512.8 -1742.0  | 4689 9.7 165317.4 -1751.0  |
| 4420 9.3 153856.7 -1734.2  | 4510 8.9 160313.2 -1736.7  | 4600 9.5 162548.4 -1747.2  | 4690 9.4 165343.9 -1714.8  |
| 4421 8.0 153902.7 -1737.9  | 4511 7.3 160340.6 -1751.0  | 4601 8.3 162628.5 -1759.6  | 4691 9.8 165425.5 -1723.5  |
| 4422 9.8 153906.8 -1707.2  | 4512 9.9 160428.5 -1726.8  | 4602 9.7 162633.5 -1712.3  | 4692 9.5 165426.8 -1755.5  |
| 4423 9.3 153928.5 -1751.0  | 4513 10.1 160442.5 -1730.5 | 4603 9.7 162808.1 -1740.1  | 4693 9.5 165434.4 -1706.0  |
| 4424 9.8 153930.6 -1704.5  | 4514 7.9 160506.0 -1743.4  | 4604 9.0 162900.6 -1710.0  | 4694 9.5 165536.7 -1729.8  |
| 4425 9.0 153948.0 -1719.9  | 4515 9.3 160515.6 -1718.6  | 4605 9.6 162947.3 -1743.0  | 4695 9.4 165539.8 -1711.7  |
| 4426 9.5 154001.5 -1717.4  | 4516 9.0 160535.1 -1722.0  | 4606 7.2 163004.4 -1755.4  | 4696 9.8 165547.6 -1731.8  |
| 4427 8.6 154003.3 -1759.3  | 4517 9.4 160537.0 -1742.9  | 4607 9.8 163013.4 -1753.7  | 4697 8.5 165552.0 -1704.7  |
| 4428 9.4 154022.0 -1757.6  | 4518 8.7 160544.9 -1749.4  | 4608 9.0 163024.3 -1736.2  | 4698 8.0 165559.8 -1755.5  |
| 4429 9.1 154033.2 -1734.1  | 4519 9.0 160553.3 -1702.9  | 4609 9.9 163054.2 -1740.0  | 4699 9.0 165602.4 -1707.7  |
| 4430 10.1 154115.8 -1723.2 | 4520 9.8 160616.9 -1746.1  | 4610 9.8 163057.7 -1754.1  | 4700 7.0 165604.8 -1716.4  |
| 4431 6.5 154134.2 -1727.0  | 4521 9.5 160635.7 -1714.9  | 4611 9.1 163105.9 -1726.3  | 4701 9.5 165611.6 -1740.4  |
| 4432 7.7 154145.0 -1741.5  | 4522 9.4 160645.0 -1759.8  | 4612 9.4 163109.3 -1726.3  | 4702 9.2 165620.9 -1742.6  |
| 4433 9.2 154154.5 -1746.7  | 4523 9.3 160707.6 -1742.3  | 4613 8.9 163222.1 -1701.9  | 4703 7.7 165622.4 -1745.0  |
| 4434 9.1 154204.6 -1706.7  | 4524 9.4 160710.7 -1738.9  | 4614 9.2 163241.8 -1728.2  | 4704 9.8 165706.6 -1729.3  |
| 4435 10.1 154209.0 -1742.8 | 4525 9.3 160711.9 -1741.9  | 4615 9.5 163249.3 -1739.7  | 4705 7.5 165721.2 -1754.6  |
| 4436 9.0 154210.5 -1707.5  | 4526 9.6 160742.6 -1716.9  | 4616 7.3 163254.5 -1746.3  | 4706 9.3 165726.4 -1716.2  |
| 4437 8.8 154218.3 -1751.0  | 4527 9.8 160802.2 -1703.1  | 4617 9.5 163304.0 -1751.5  | 4707 10.1 165747.6 -1739.5 |
| 4438 8.7 154238.1 -1736.1  | 4528 9.7 160803.0 -1737.7  | 4618 5.3 163310.8 -1727.4  | 4708 9.3 165747.8 -1715.8  |
| 4439 9.8 154241.2 -1729.8  | 4529 9.1 160826.7 -1706.9  | 4619 9.5 163349.8 -1756.9  | 4709 8.0 165749.4 -1744.3  |
| 4440 9.6 154308.0 -1702.7  | 4530 10.1 160830.7 -1735.0 | 4620 9.8 163358.7 -1740.5  | 4710 9.8 165812.5 -1741.5  |
| 4441 9.9 154320.9 -1757.4  | 4531 9.6 160837.4 -1758.5  | 4621 9.5 163440.7 -1759.1  | 4711 9.4 165814.4 -1734.4  |
| 4442 7.2 154357.5 -1759.8  | 4532 9.3 160858.5 -1722.1  | 4622 9.5 163503.3 -1725.1  | 4712 9.1 165839.0 -1738.3  |
| 4443 9.8 154431.7 -1744.2  | 4533 9.1 160831.4 -1755.3  | 4623 9.0 163520.9 -1714.1  | 4713 9.0 165911.7 -1713.4  |
| 4444 9.5 154448.5 -1725.7  | 4534 7.1 161007.2 -1701.4  | 4624 9.0 163530.8 -1753.8  | 4714 8.9 165929.3 -1710.2  |
| 4445 7.8 154458.5 -1731.7  | 4535 9.1 161030.0 -1721.0  | 4625 9.5 163531.5 -1703.0  | 4715 9.0 165935.1 -1750.7  |
| 4446 9.5 154602.3 -1700.0  | 4536 9.4 161038.2 -1702.3  | 4626 8.8 163549.4 -1710.1  | 4716 9.5 165944.6 -1710.0  |
| 4447 9.8 154631.9 -1757.9  | 4537 9.5 161036.1 -1704.3  | 4627 9.5 163613.7 -1736.2  | 4717 6.2 165949.8 -1724.6  |
| 4448 10.1 154706.9 -1758.8 | 4538 9.5 161046.8 -1736.9  | 4628 9.5 163738.2 -1728.3  | 4718 8.0 170006.3 -1725.8  |
| 4449 9.5 154724.7 -1709.0  | 4539 10.1 161115.3 -1737.1 | 4629 9.6 163746.2 -1740.8  | 4719 7.7 170006.3 -1725.8  |
| 4450 8.0 154731.2 -1735.8  | 4540 9.8 161111.2 -1740.1  | 4630 8.5 163753.8 -1705.2  | 4720 9.5 170012.7 -1731.0  |
| 4451 8.7 154741.1 -1727.0  | 4541 9.5 161122.9 -1726.4  | 4631 8.2 163809.7 -1719.4  | 4721 9.6 170026.8 -1707.3  |
| 4452 8.7 154743.3 -1749.9  | 4542 9.0 161143.1 -1708.5  | 4632 9.0 163814.1 -1727.1  | 4722 9.5 170029.8 -1704.6  |
| 4453 9.0 154750.7 -1755.2  | 4543 9.4 161154.8 -1735.6  | 4633 9.8 163834.6 -1759.9  | 4723 9.4 170033.1 -1745.6  |
| 4454 10.1 154751.0 -1745.9 | 4544 9.6 161204.9 -1751.7  | 4634 9.3 163921.7 -1724.6  | 4724 8.0 170039.2 -1722.6  |
| 4455 10.1 154800.2 -1743.8 | 4545 9.5 161221.8 -1740.9  | 4635 9.3 163936.2 -1759.7  | 4725 9.8 170053.4 -1745.8  |
| 4456 9.8 154803.2 -1740.9  | 4546 9.4 161235.9 -1724.4  | 4636 9.5 163956.2 -1721.3  | 4726 10.1 170059.1 -1731.1 |
| 4457 9.5 154813.6 -1713.4  | 4547 9.5 161242.9 -1752.1  | 4637 8.9 164032.0 -1750.6  | 4727 9.5 170100.6 -1710.3  |
| 4458 9.9 154848.5 -1731.7  | 4548 9.0 161243.3 -1721.1  | 4638 9.8 164033.2 -1718.9  | 4728 9.5 170110.6 -1718.8  |
| 4459 9.8 154858.5 -1711.4  | 4549 9.8 161311.2 -1743.6  | 4639 10.1 164113.2 -1714.2 | 4729 9.5 170127.1 -1727.3  |
| 4460 9.6 154908.9 -1752.2  | 4550 9.6 161315.9 -1716.7  | 4640 9.5 164143.3 -1701.4  | 4730 9.5 170129.9 -1723.6  |
| 4461 8.5 155009.0 -1719.7  | 4551 9.5 161323.5 -1705.2  | 4641 8.9 164143.6 -1752.5  | 4731 8.7 170134.3 -1749.3  |
| 4462 9.4 155023.7 -1707.5  | 4552 9.1 161336.3 -1709.9  | 4642 9.5 164154.3 -1702.0  | 4732 9.4 170138.3 -1746.4  |
| 4463 9.5 155027.0 -1702.3  | 4553 9.8 161405.3 -1742.4  | 4643 8.2 164258.9 -1741.1  | 4733 9.7 170144.0 -1714.2  |
| 4464 9.5 155055.1 -1708.8  | 4554 30.0 161407.0 -1732.3 | 4644 8.9 164337.0 -1725.5  | 4734 9.1 170155.8 -1708.9  |
| 4465 9.1 155107.4 -1750.2  | 4555 9.9 161408.9 -1707.4  | 4645 9.5 164341.2 -1713.3  | 4735 9.9 170218.8 -1738.1  |
| 4466 9.5 155122.0 -1703.0  | 4556 9.5 161436.8 -1752.2  | 4646 7.6 164531.6 -1744.0  | 4736 10.1 170227.4 -1740.7 |
| 4467 9.4 155220.1 -1714.8  | 4557 9.5 161452.4 -1714.5  | 4647 9.3 164548.0 -1726.8  | 4737 9.3 170238.8 -1758.2  |
| 4468 9.1 155225.1 -1705.2  | 4558 9.5 161453.7 -1704.0  | 4648 9.4 164551.3 -1747.1  | 4738 9.0 170245.1 -1731.7  |
| 4469 9.1 155246.2 -1743.7  | 4559 9.5 161455.3 -1729.8  | 4649 9.7 164601.8 -1738.4  | 4739 9.4 170302.3 -1706.6  |
| 4470 9.2 155250.0 -1719.2  | 4560 9.5 161504.5 -1706.7  | 4650 9.7 164605.4 -1737.6  | 4740 9.5 170326.3 -1710.2  |
| 4471 8.7 155416.8 -1727.0  | 4561 9.3 161520.0 -1710.3  | 4651 9.8 164612.5 -1757.6  | 4741 9.8 170346.2 -1753.6  |
| 4472 8.2 155419.7 -1745.9  | 4562 9.0 161604.8 -1724.9  | 4652 9.5 164627.1 -1718.6  | 4742 7.7 170350.9 -1703.5  |
| 4473 9.5 155420.1 -1718.0  | 4563 8.3 161620.9 -1713.4  | 4653 9.4 164629.4 -1756.6  | 4743 8.7 170402.2 -1757.3  |
| 4474 9.2 155422.3 -1729.2  | 4564 9.4 161622.0 -1759.5  | 4654 9.5 164631.2 -1727.7  | 4744 8.2 170403.4 -1725.5  |
| 4475 9.6 155431.5 -1729.0  | 4565 9.1 161634.7 -1744.6  | 4655 9.6 164648.7 -1750.0  | 4745 9.0 170409.3 -1748.5  |
| 4476 9.0 155434.7 -1701.4  | 4566 9.5 161656.7 -1746.5  | 4656 9.3 164651.1 -1751.8  | 4746 8.5 170416.8 -1724.6  |
| 4477 9.5 155447.4 -1709.5  | 4567 9.2 161707.2 -1731.3  | 4657 9.5 164708.9 -1727.7  | 4747 9.5 170444.4 -1703.8  |
| 4478 8.0 155458.2 -1751.8  | 4568 9.8 161709.4 -1710.4  | 4658 9.8 164728.0 -1751.0  | 4748 9.3 170446.8 -1719.9  |
| 4479 9.8 155529.4 -1724.9  | 4569 9.5 161725.7 -1704.7  | 4659 8.2 164735.3 -1740.3  | 4749 10.1 170453.7 -1755.0 |
| 4480 9.8 155530.2 -1749.0  | 4570 9.5 161801.7 -1726.4  | 4660 9.5 164742.5 -1747.4  | 4750 9.4 170513.8 -1741.4  |
| 4481 9.4 155612.6 -1759.5  | 4571 9.4 161818.6 -1740.5  | 4661 9.1 164803.1 -1734.3  | 4751 9.5 170552.7 -1704.1  |
| 4482 10.1 155635.3 -1714.5 | 4572 7.0 161839.5 -1726.4  | 4662 9.3 164803.5 -1715.8  | 4752 8.2 170553.8 -1700.7  |
| 4483 9.8 155647.0 -1709.6  | 4573 9.2 161900.7 -1757.7  | 4663 8.5 164809.4 -1753.6  | 4753 7.8 170556.8 -1717.3  |
| 4484 9.8 155704.3 -1755.4  | 4574 8.8 161932.2 -1712.4  | 4664 9.6 164829.4 -1726.3  | 4754 9.3 170704.6 -1720.8  |
| 4485 9.4 155732.6 -1701.7  | 4575 8.3 161939.1 -1731.2  | 4665 8.4 164842.4 -1741.6  | 4755 7.7 170713.8 -1703.3  |
| 4486 9.5 155748.3 -1723.0  | 4576 9.6 161942.0 -1707.6  | 4666 9.8 164843.4 -1727.6  | 4756 9.6 170725.3 -1721.4  |
| 4487 9.7 155753.4 -1750.4  | 4577 9.7 161945.1 -1702.4  | 4667 7.8 164844.3 -1734.5  | 4757 9.4 170807.2 -1747.1  |
| 4488 9.5 155806.7 -1755.6  | 4578 9.4 161949.0 -1745.5  | 4668 9.4 164906.9 -1728.1  | 4758 8.7 170814.7 -1758.2  |
| 4489 9.5 155810.1 -1738.0  | 4579 9.5 162022.9 -1747.0  | 4669 9.3 164913.4 -1723.5  | 4759 7.2 170817.7 -1744.8  |
| 4490 9.6 155840.8 -1714.3  | 4580 7.4 162023.1 -1739.5  | 4670 9.0 164913.9 -1757.3  | 4760 8.6 170834.1 -1749.0  |
| 4491 7.5 155855.6 -1732.4  | 4581 8.8 162023.9 -1708.6  | 4671 8.7 164950.2 -1737.6  | 4761 8.7 170836.2 -1729.4  |
| 4492 8.8 155858.2 -1729.1  | 4582 9.8 162037.6 -1734.0  | 4672 8.9 164957.3 -1714.4  | 4762 9.6 170839.2 -1741.7  |
| 4493 8.2 155900.7 -1758.3  | 4583 9.4 162050.7 -1752.5  | 4673 9.0 165012.9 -1749.4  | 4763 8.6 170906.6 -1742.6  |
| 4494 7.0 155946.2 -1750.5  | 4584 9.3 162106.6 -1740.6  | 4674 9.4 165019.5 -1714.0  | 4764 8.5 170914.0 -1740.1  |
| 4495 10.1 155954.9 -1737.4 | 4585 8.7 162116.3 -1755.0  | 4675 9.5 165108.9 -1740.4  | 4765 9.2 170915.7 -1725.7  |
| 4496 10.1 160001.0 -1742.8 | 4586 8.8 162153.9 -1741.0  | 4676 9.3 165111.4 -1754.0  | 4766 9.6 170944.6 -1738.9  |
| 4497 9.7 160057.4 -1745.0  | 4587 9.5 162221.5 -1733.9  | 4677 9.5 165147.3 -1759.2  | 4767 9.7 170947.7 -1741.8  |
| 4498 9.8 160106.4 -1725.0  | 4588 9.7 162224.9 -1747.4  | 4678 8.8 165159.2 -1758.7  | 4768 9.2 171012.5 -1757.0  |
| 4499 9.5 160115.2 -1726.6  | 4589 9.1 162232.6 -1728.5  | 4679 9.5 165203.3 -1724.4  | 4769 9.1 171049.1 -1739.8  |
| 4500 9.5 160122.1 -1751.4  | 4590 9.5 162216.5 -1753.4  | 4680 9.3 165211.0 -1706.9  | 4770 9.1 171053.3 -1721.9  |
| 4501 9.4 160134.2 -1753.6  | 4591 8.0 162317.3 -1723.7  | 4681 9.4 165218.4 -1717.4  | 4771 8.5 171107.4 -1756.9  |



-17 4772 17h11m

4772 9.2 171119.8 -1739.0  
4773 6.0 171126.6 -1735.9  
4774 9.7 171143.2 -1735.0  
4775 10.1 171152.9 -1723.7  
4776 9.3 171156.4 -1702.8  
4777 9.5 171202.0 -1704.5  
4778 9.7 171208.8 -1704.6  
4779 9.8 171209.9 -1737.2  
4780 9.7 171219.9 -1759.4  
4781 9.4 171225.3 -1744.6

4782 9.1 171246.8 -1753.2  
4783 9.1 171248.0 -1754.1  
4784 9.5 171259.6 -1744.5  
4785 9.4 171304.2 -1703.3  
4786 9.9 171316.0 -1753.9  
4787 9.0 171330.4 -1737.3  
4788 8.2 171337.9 -1704.0  
4789 8.0 171357.7 -1711.3  
4790 9.0 171405.8 -1711.7  
4791 8.5 171409.1 -1733.1

4792 9.0 171441.2 -1758.7  
4793 8.3 171457.8 -1750.0  
4794 20.0 171507.1 -1740.5  
4795 8.5 171510.7 -1714.7  
4796 9.4 171537.7 -1758.5  
4797 9.0 171551.2 -1759.8  
4798 9.5 171631.1 -1724.1  
4799 9.4 171651.7 -1717.3  
4800 10.1 171704.9 -1731.1  
4801 9.1 171719.3 -1737.9

4802 10.1 171721.7 -1741.0  
4803 9.3 171731.1 -1743.7  
4804 10.1 171741.7 -1721.1  
4805 9.5 171803.2 -1757.4  
4806 9.1 171805.6 -1727.4  
4807 8.9 171807.8 -1714.4  
4808 9.2 171816.4 -1745.0  
4809 9.8 171837.7 -1720.5  
4810 9.5 171938.1 -1724.8  
4811 9.7 171938.9 -1747.3

4812 10.1 171945.4 -1752.8  
4813 9.5 172003.1 -1733.5  
4814 8.3 172009.2 -1752.0  
4815 9.5 172014.8 -1707.5  
4816 9.5 172026.7 -1715.8  
4817 9.4 172035.6 -1726.7  
4818 9.4 172037.2 -1722.0  
4819 10.1 172045.9 -1725.7  
4820 9.8 172109.5 -1713.2  
4821 8.2 172114.9 -1741.3

4822 9.0 172118.1 -1728.4  
4823 9.1 172119.8 -1729.7  
4824 9.6 172127.7 -1754.2  
4825 7.7 172132.7 -1741.0  
4826 9.7 172134.1 -1747.6  
4827 9.7 172150.8 -1749.4  
4828 9.0 172202.7 -1721.2  
4829 8.8 172213.9 -1745.8  
4830 9.8 172231.3 -1709.7  
4831 8.3 172232.2 -1715.3

4832 9.8 172245.8 -1759.2  
4833 9.8 172246.9 -1701.0  
4834 8.0 172247.6 -1701.4  
4835 9.0 172300.6 -1758.5  
4836 9.6 172306.7 -1711.9  
4837 9.7 172318.0 -1749.6  
4838 9.5 172328.7 -1712.9  
4839 9.8 172347.4 -1740.3  
4840 9.8 172421.2 -1718.2  
4841 7.0 172433.3 -1723.1

4842 9.8 172443.6 -1720.4  
4843 9.0 172452.2 -1755.8  
4844 9.2 172459.1 -1711.5  
4845 9.5 172510.1 -1757.4  
4846 9.4 172512.9 -1700.1  
4847 10.1 172527.1 -1720.1  
4848 7.7 172532.3 -1743.8  
4849 9.2 172541.0 -1701.9  
4850 9.0 172547.2 -1713.2  
4851 9.5 172613.6 -1758.6

4852 9.5 172628.1 -1725.3  
4853 9.8 172630.1 -1718.5  
4854 10.1 172643.1 -1756.0  
4855 9.8 172643.2 -1715.4  
4856 9.0 172739.7 -1712.5  
4857 7.4 172746.3 -1745.6  
4858 9.5 172814.2 -1731.1  
4859 9.4 172814.4 -1754.4  
4860 9.4 172815.6 -1717.5  
4861 8.7 172825.3 -1751.6

4862 9.9 172830.2 -1734.1  
4863 9.9 172904.3 -1736.7  
4864 8.5 172912.0 -1745.9  
4865 9.1 172922.7 -1709.4  
4866 9.8 172944.5 -1730.6  
4867 9.8 172945.4 -1722.8  
4868 9.8 172951.0 -1722.8  
4869 9.2 173001.3 -1702.0  
4870 9.8 173024.6 -1724.7  
4871 8.3 173039.8 -1721.6

4872 9.8 173040.2 -1709.9  
4873 9.7 173052.7 -1704.4  
4874 9.8 173055.1 -1759.5  
4875 10.1 173116.1 -1718.0  
4876 9.5 173125.1 -1721.2  
4877 9.5 173126.7 -1749.7  
4878 9.6 173129.4 -1748.9  
4879 9.8 173134.2 -1724.7  
4880 9.0 173142.0 -1729.7  
4881 9.5 173147.3 -1731.6

4882 9.5 173206.0 -1731.9  
4883 9.1 173208.2 -1710.8  
4884 9.9 173223.2 -1754.9  
4885 9.4 173235.0 -1726.5  
4886 9.0 173251.1 -1752.6  
4887 8.8 173253.6 -1709.8  
4888 9.1 173306.5 -1730.6  
4889 9.3 173315.7 -1743.7  
4890 9.5 173324.0 -1748.9  
4891 9.4 173324.8 -1734.6

4892 9.4 173324.9 -1752.3  
4893 9.2 173321.7 -1745.8  
4894 9.1 173334.1 -1717.9  
4895 9.2 173423.4 -1752.6  
4896 9.5 173439.0 -1730.7  
4897 9.5 173451.8 -1704.6  
4898 8.7 173453.5 -1725.8  
4899 9.4 173516.0 -1756.7  
4900 9.6 173519.7 -1748.1  
4901 10.1 173531.0 -1713.5

4902 9.1 173534.6 -1726.7  
4903 7.5 173541.4 -1740.3  
4904 9.2 173549.4 -1750.1  
4905 9.8 173551.3 -1702.2  
4906 7.0 173551.3 -1722.0  
4907 7.8 173601.3 -1704.6  
4908 9.3 173611.1 -1724.0  
4909 9.1 173630.5 -1731.6  
4910 8.5 173631.6 -1709.5  
4911 10.1 173645.5 -1741.8

4912 9.1 173651.2 -1710.1  
4913 9.8 173708.7 -1714.7  
4914 9.0 173728.5 -1734.6  
4915 9.6 173731.6 -1723.4  
4916 9.8 173751.7 -1711.6  
4917 9.4 173752.7 -1738.3  
4918 8.4 173817.6 -1749.8  
4919 9.1 173850.0 -1705.0  
4920 9.9 173914.2 -1713.6  
4921 9.5 173920.8 -1754.2

4922 9.9 173952.9 -1750.2  
4923 9.4 173956.6 -1714.3  
4924 9.4 174015.5 -1725.0  
4925 9.6 174020.5 -1740.7  
4926 9.8 174100.0 -1724.0  
4927 9.3 174115.3 -1705.4  
4928 8.2 174129.6 -1715.8  
4929 9.1 174150.4 -1758.7  
4930 9.1 174155.5 -1719.6  
4931 9.7 174159.3 -1711.9

4932 7.3 174231.1 -1712.4  
4933 9.6 174258.8 -1702.1  
4934 9.5 174300.4 -1732.0  
4935 9.6 174302.8 -1706.3  
4936 9.8 174315.4 -1739.6  
4937 9.8 174331.3 -1752.9  
4938 9.5 174343.0 -1708.1  
4939 9.4 174359.9 -1741.5  
4940 9.5 174405.4 -1737.3  
4941 8.0 174450.5 -1726.5

4942 9.4 174456.4 -1738.0  
4943 9.3 174512.9 -1724.3  
4944 9.2 174513.3 -1740.5  
4945 9.3 174517.9 -1714.7  
4946 8.2 174533.0 -1722.5  
4947 9.4 174535.6 -1755.6  
4948 9.8 174538.8 -1758.0  
4949 10.1 174608.9 -1748.4  
4950 9.2 174617.8 -1744.2  
4951 9.5 174639.1 -1709.2

4952 9.6 174702.9 -1726.6  
4953 9.7 174707.9 -1730.8  
4954 9.5 174712.8 -1756.1  
4955 9.5 174723.5 -1725.1  
4956 9.4 174726.2 -1715.7  
4957 9.5 174726.8 -1709.3  
4958 9.0 174743.0 -1724.5  
4959 9.3 174753.3 -1749.9  
4960 9.7 174755.2 -1735.6  
4961 10.1 174803.3 -1702.8

4962 9.8 174823.8 -1707.5  
4963 10.1 174826.7 -1705.6  
4964 9.4 174832.9 -1757.4  
4965 9.8 174839.3 -1712.8  
4966 9.0 174840.0 -1715.0  
4967 9.1 174909.4 -1739.1  
4968 9.6 174919.1 -1712.4  
4969 9.5 174925.2 -1724.0  
4970 9.2 174925.8 -1706.1  
4971 9.3 174950.7 -1754.9

4972 9.7 174958.7 -1745.7  
4973 9.1 175019.2 -1744.3  
4974 9.8 175030.7 -1753.5  
4975 9.3 175031.2 -1745.7  
4976 9.3 175042.1 -1747.9  
4977 9.3 175046.6 -1702.6  
4978 9.1 175057.0 -1723.0  
4979 10.1 175111.0 -1741.4  
4980 9.4 175121.9 -1702.6  
4981 8.9 175139.4 -1746.2

4982 9.5 175147.1 -1704.4  
4983 9.2 175157.9 -1746.7  
4984 9.8 175213.0 -1757.1  
4985 9.9 175229.4 -1738.4  
4986 9.5 175231.8 -1765.3  
4987 6.0 175258.1 -1708.7  
4988 9.4 175302.5 -1700.1  
4989 9.6 175318.3 -1740.7  
4990 9.4 175320.5 -1713.6  
4991 9.5 175325.2 -1752.7

4992 9.5 175335.1 -1746.2  
4993 9.7 175341.6 -1701.1  
4994 9.7 175351.6 -1745.9  
4995 8.9 175352.0 -1750.2  
4996 9.0 175356.6 -1707.5  
4997 7.8 175416.1 -1731.0  
4998 9.7 175424.8 -1742.3  
4999 7.8 175440.3 -1724.5  
5000 9.0 175441.2 -1758.5  
5001 7.0 175454.5 -1736.4

5002 9.4 175503.8 -1704.8  
5003 10.1 175524.7 -1724.4  
5004 9.4 175544.5 -1755.3  
5005 7.3 175554.6 -1720.7  
5006 9.4 175603.5 -1747.7  
5007 8.5 175612.9 -1702.0  
5008 9.7 175635.5 -1706.8  
5009 9.4 175646.0 -1734.7  
5010 9.8 175646.4 -1729.8  
5011 9.1 175700.4 -1717.9

5012 9.5 175709.0 -1747.2  
5013 9.7 175723.2 -1750.7  
5014 9.9 175726.6 -1752.9  
5015 9.5 175729.6 -1731.6  
5016 9.7 175731.4 -1700.1  
5017 9.4 175733.1 -1754.0  
5018 9.4 175802.3 -1753.7  
5019 9.8 175803.4 -1718.6  
5020 9.0 175807.5 -1712.5  
5021 9.6 175810.5 -1741.3

5022 9.2 175813.2 -1753.1  
5023 9.5 175824.5 -1738.4  
5024 9.4 175825.8 -1714.8  
5025 9.4 175848.0 -1703.5  
5026 9.8 175906.0 -1756.1  
5027 9.5 175918.3 -1734.0  
5028 5.7 175924.6 -1710.1  
5029 10.1 175932.5 -1752.5  
5030 9.5 175941.2 -1725.4  
5031 9.7 175941.4 -1740.8

5032 9.9 175952.0 -1701.8  
5033 9.0 180004.4 -1744.5  
5034 8.8 180019.7 -1759.2  
5035 8.9 180025.4 -1731.2  
5036 9.8 180025.6 -1708.2  
5037 9.0 180031.1 -1700.5  
5038 9.8 180052.3 -1729.7  
5039 9.8 180104.6 -1713.4  
5040 9.5 180111.7 -1733.2  
5041 9.9 180121.1 -1734.1

-17 5131 18h11m

5042 9.8 180124.5 -1758.5  
5043 9.8 180129.2 -1731.9  
5044 9.0 180140.5 -1713.8  
5045 8.2 180141.2 -1745.2  
5046 9.9 180143.7 -1744.5  
5047 9.4 180152.6 -1715.1  
5048 8.3 180205.4 -1746.7  
5049 9.5 180210.8 -1745.2  
5050 9.0 180212.5 -1756.9  
5051 9.5 180217.8 -1709.7

5052 8.3 180219.1 -1709.8  
5053 9.5 180219.5 -1716.1  
5054 9.5 180238.2 -1730.8  
5055 8.7 180244.3 -1724.2  
5056 9.8 180300.4 -1720.2  
5057 9.8 180321.6 -1715.7  
5058 9.9 180331.8 -1750.4  
5059 9.2 180337.0 -1759.6  
5060 9.5 180337.5 -1740.6  
5061 9.8 180340.5 -1758.9

5062 9.4 180344.7 -1746.1  
5063 9.4 180345.6 -1737.0  
5064 9.0 180347.3 -1724.7  
5065 9.5 180408.6 -1757.8  
5066 9.0 180417.3 -1726.9  
5067 9.8 180418.0 -1719.5  
5068 9.4 180419.3 -1729.5  
5069 9.4 180422.1 -1736.3  
5070 9.8 180423.0 -1719.8  
5071 9.1 180458.1 -1746.4

5072 9.8 180507.0 -1719.3  
5073 9.5 180516.7 -1749.5  
5074 8.9 180518.6 -1711.5  
5075 9.0 180519.5 -1710.1  
5076 9.3 180525.9 -1725.4  
5077 9.7 180543.8 -1702.7  
5078 9.5 180557.0 -1751.7  
5079 9.0 180557.6 -1759.5  
5080 9.1 180611.9 -1723.6  
5081 9.3 180615.7 -1711.3

5082 9.8 180617.4 -1744.6  
5083 9.9 180627.5 -1718.9  
5084 9.8 180628.2 -1740.9  
5085 9.5 180631.4 -1723.6  
5086 9.8 180644.8 -1736.3  
5087 8.9 180646.0 -1740.6  
5088 8.7 180650.1 -1708.5  
5089 9.8 180657.8 -1740.4  
5090 9.8 180703.6 -1755.3  
5091 9.6 180711.9 -1755.0

5092 8.9 180720.5 -1700.2  
5093 9.1 180729.4 -1748.6  
5094 7.5 180731.1 -1739.2  
5095 9.5 180732.3 -1709.9  
5096 9.2 180741.0 -1707.9  
5097 9.8 180742.9 -1725.2  
5098 10.1 180800.2 -1723.6  
5099 9.8 180801.7 -1736.7  
5100 9.8 180809.6 -1756.7  
5101 9.1 180810.0 -1721.0

5102 9.2 180814.8 -1751.6  
5103 9.6 180816.3 -1731.2  
5104 9.7 180816.9 -1740.7  
5105 9.8 180823.7 -1723.9  
5106 9.8 180825.1 -1715.6  
5107 9.0 180825.6 -1759.5  
5108 9.4 180830.2 -1707.1  
5109 9.5 180834.4 -1759.5  
5110 9.7 180836.8 -1748.5  
5111 9.5 180842.8 -1701.7

5112 6.0 180845.7 -1724.9  
5113 9.5 180854.9 -1702.4  
5114 10.1 180901.5 -1745.6  
5115 9.4 180902.3 -1759.8  
5116 9.8 180914.0 -1751.2  
5117 8.9 180926.3 -1752.9  
5118 9.2 180935.6 -1739.6  
5119 9.8 180952.7 -1736.7  
5120 9.5 180955.9 -1728.0  
5121 7.5 180958.0 -1734.9

5122 9.2 181006.8 -1709.6  
5123 9.5 181007.6 -1729.3  
5124 9.3 181011.4 -1746.3  
5125 9.5 181016.8 -1706.8  
5126 9.5 181020.8 -1723.8  
5127 9.1 181028.0 -1755.6  
5128 9.1 181040.7 -1737.1  
5129 9.3 181047.5 -1712.3  
5130 9.4 181103.8 -1746.7  
5131 9.5 181116.2 -1733.1



|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 5132 9.5 181120.3 -1732.9 | 5222 9.4 182253.9 -1708.4 | 5312 9.5 183729.2 -1746.9 | 5402 9.7 185046.3 -1744.7 |
| 5133 7.2 181122.9 -1748.8 | 5223 9.6 182303.5 -1752.7 | 5313 9.3 183744.5 -1733.7 | 5403 9.4 185053.3 -1709.6 |
| 5134 9.7 181123.2 -1705.3 | 5224 9.1 182318.8 -1730.4 | 5314 9.8 183750.6 -1756.0 | 5404 9.8 185054.3 -1711.6 |
| 5135 8.2 181126.0 -1740.0 | 5225 9.1 182320.5 -1703.5 | 5315 9.5 183818.5 -1731.6 | 5405 9.8 185111.5 -1715.0 |
| 5136 9.0 181127.9 -1707.6 | 5226 9.8 182332.0 -1710.6 | 5316 9.5 183819.1 -1727.7 | 5406 9.2 185146.8 -1747.2 |
| 5137 9.2 181134.0 -1706.8 | 5227 9.1 182333.2 -1719.9 | 5317 9.3 183835.7 -1756.6 | 5407 9.7 185153.8 -1728.0 |
| 5138 9.3 181134.3 -1709.6 | 5228 9.9 182352.7 -1712.7 | 5318 9.5 183916.5 -1728.6 | 5408 9.5 185157.3 -1753.8 |
| 5139 9.1 181137.9 -1707.0 | 5229 9.9 182409.1 -1717.5 | 5319 9.2 183938.1 -1702.4 | 5409 7.8 185200.2 -1741.2 |
| 5140 9.7 181145.8 -1710.3 | 5230 9.3 182412.2 -1702.2 | 5320 9.3 183945.9 -1737.6 | 5410 8.6 185204.0 -1711.1 |
| 5141 9.1 181150.8 -1703.3 | 5231 9.8 182424.1 -1717.6 | 5321 9.8 183952.8 -1751.4 | 5411 9.8 185205.8 -1734.7 |
| 5142 9.1 181202.0 -1710.3 | 5232 9.9 182424.9 -1700.3 | 5322 9.5 184017.7 -1721.0 | 5412 10. 185216.4 -1707.5 |
| 5143 9.8 181205.2 -1709.5 | 5233 9.6 182432.3 -1747.0 | 5323 9.5 184019.3 -1704.5 | 5413 9.4 185218.0 -1710.3 |
| 5144 8.7 181210.6 -1748.7 | 5234 9.5 182445.7 -1723.5 | 5324 8.0 184020.2 -1711.4 | 5414 8.5 185218.6 -1724.0 |
| 5145 9.1 181212.9 -1742.9 | 5235 9.6 182502.0 -1707.4 | 5325 9.3 184027.4 -1717.2 | 5415 10. 185303.5 -1716.3 |
| 5146 9.8 181217.1 -1719.5 | 5236 8.2 182536.2 -1738.3 | 5326 9.3 184043.3 -1702.3 | 5416 9.8 185306.4 -1733.7 |
| 5147 9.9 181219.2 -1716.0 | 5237 8.7 182541.2 -1701.2 | 5327 9.4 184046.7 -1757.7 | 5417 9.8 185315.8 -1729.9 |
| 5148 9.5 181228.3 -1733.4 | 5238 8.8 182545.0 -1748.3 | 5328 9.5 184057.6 -1759.3 | 5418 9.8 185322.4 -1721.6 |
| 5149 8.5 181234.7 -1712.2 | 5239 9.4 182546.3 -1746.3 | 5329 9.4 184058.6 -1715.5 | 5419 8.0 185326.0 -1732.7 |
| 5150 9.1 181235.9 -1717.4 | 5240 8.8 182559.9 -1702.8 | 5330 10. 184106.1 -1745.8 | 5420 9.5 185330.2 -1741.5 |
| 5151 8.2 181243.4 -1726.7 | 5241 9.3 182613.4 -1756.8 | 5331 9.4 184106.4 -1712.5 | 5421 9.5 185331.6 -1759.5 |
| 5152 10. 181257.0 -1742.8 | 5242 9.2 182615.5 -1709.7 | 5332 8.1 184112.2 -1703.5 | 5422 9.5 185335.0 -1707.7 |
| 5153 9.8 181302.5 -1744.2 | 5243 9.2 182636.3 -1718.4 | 5333 9.3 184118.9 -1715.5 | 5423 8.7 185335.5 -1716.2 |
| 5154 9.0 181315.4 -1757.9 | 5244 9.5 182636.8 -1756.8 | 5334 8.9 184125.3 -1704.8 | 5424 9.6 185337.5 -1729.2 |
| 5155 9.0 181315.4 -1720.5 | 5245 7.2 182644.0 -1705.4 | 5335 9.9 184154.2 -1712.5 | 5425 10. 185338.0 -1757.0 |
| 5156 9.5 181317.0 -1743.4 | 5246 9.2 182649.8 -1740.4 | 5336 9.0 184157.7 -1723.6 | 5426 9.5 185340.3 -1727.3 |
| 5157 9.3 181323.7 -1700.3 | 5247 9.2 182655.2 -1753.8 | 5337 9.6 184211.6 -1710.1 | 5427 8.0 185343.2 -1703.3 |
| 5158 9.5 181336.8 -1710.2 | 5248 9.3 182658.7 -1737.4 | 5338 9.6 184212.9 -1708.8 | 5428 9.5 185359.6 -1735.2 |
| 5159 9.2 181343.6 -1729.4 | 5249 9.1 182708.5 -1734.7 | 5339 9.5 184217.0 -1735.9 | 5429 9.5 185400.5 -1722.0 |
| 5160 9.8 181343.7 -1725.3 | 5250 9.5 182713.2 -1742.0 | 5340 9.3 184219.8 -1753.3 | 5430 9.4 185404.7 -1734.2 |
| 5161 9.4 181344.9 -1744.3 | 5251 9.8 182716.9 -1714.6 | 5341 9.2 184234.1 -1756.7 | 5431 8.9 185422.1 -1712.4 |
| 5162 9.1 181402.8 -1735.5 | 5252 9.4 182717.6 -1751.0 | 5342 8.3 184234.6 -1757.5 | 5432 9.5 185425.3 -1719.7 |
| 5163 9.0 181405.5 -1722.0 | 5253 9.5 182738.6 -1741.6 | 5343 9.4 184236.5 -1740.5 | 5433 9.5 185425.4 -1723.0 |
| 5164 9.3 181413.1 -1728.8 | 5254 9.3 182742.3 -1748.5 | 5344 8.3 184246.3 -1752.0 | 5434 9.0 185428.7 -1702.5 |
| 5165 9.5 181417.5 -1744.3 | 5255 9.5 182745.2 -1741.4 | 5345 9.0 184251.8 -1733.4 | 5435 9.8 185431.9 -1755.4 |
| 5166 9.4 181422.6 -1746.9 | 5256 9.2 182802.1 -1710.5 | 5346 9.3 184252.8 -1734.8 | 5436 9.4 185438.3 -1730.0 |
| 5167 9.1 181423.3 -1731.0 | 5257 9.5 182809.0 -1755.4 | 5347 6.8 184255.3 -1718.9 | 5437 8.7 185446.8 -1750.6 |
| 5168 9.2 181427.5 -1728.5 | 5258 9.5 182811.2 -1737.2 | 5348 9.5 184257.4 -1759.6 | 5438 9.5 185456.5 -1730.9 |
| 5169 9.5 181427.7 -1756.5 | 5259 7.9 182815.6 -1718.9 | 5349 9.0 184258.2 -1702.1 | 5439 9.3 185458.8 -1717.9 |
| 5170 9.5 181428.5 -1740.6 | 5260 9.1 182825.3 -1705.5 | 5350 8.4 184311.4 -1728.1 | 5440 8.9 185503.3 -1730.7 |
| 5171 8.0 181433.2 -1744.5 | 5261 9.1 182826.8 -1718.8 | 5351 9.4 184313.0 -1712.8 | 5441 9.5 185512.9 -1740.2 |
| 5172 8.8 181443.4 -1704.7 | 5262 9.6 182836.4 -1704.0 | 5352 9.1 184332.7 -1720.2 | 5442 9.4 185522.8 -1722.5 |
| 5173 9.0 181455.6 -1720.9 | 5263 9.3 182839.2 -1740.3 | 5353 8.7 184337.9 -1701.7 | 5443 9.6 185522.9 -1728.3 |
| 5174 9.5 181459.0 -1725.8 | 5264 9.6 182841.7 -1754.7 | 5354 9.3 184339.1 -1732.7 | 5444 9.5 185537.0 -1718.5 |
| 5175 9.4 181500.7 -1711.5 | 5265 9.3 182844.0 -1737.7 | 5355 9.4 184343.9 -1713.2 | 5445 8.1 185542.0 -1705.8 |
| 5176 9.4 181508.1 -1716.2 | 5266 9.5 182902.5 -1711.8 | 5356 9.4 184354.1 -1733.4 | 5446 8.3 185542.4 -1758.1 |
| 5177 9.4 181510.2 -1713.3 | 5267 9.0 182906.8 -1735.3 | 5357 9.5 184406.1 -1722.4 | 5447 9.4 185543.9 -1749.2 |
| 5178 9.8 181523.8 -1732.7 | 5268 9.1 182914.9 -1716.4 | 5358 9.5 184406.5 -1710.0 | 5448 9.7 185548.7 -1702.2 |
| 5179 9.1 181539.7 -1756.1 | 5269 9.1 182921.0 -1716.4 | 5359 9.1 184419.8 -1721.5 | 5449 9.5 185549.3 -1705.2 |
| 5180 9.7 181542.4 -1725.8 | 5270 9.5 182922.2 -1739.5 | 5360 9.5 184437.7 -1722.0 | 5450 9.4 185561.0 -1729.0 |
| 5181 10. 181545.3 -1735.0 | 5271 7.0 182926.6 -1720.6 | 5361 9.5 184505.2 -1751.4 | 5451 9.5 185622.2 -1754.5 |
| 5182 9.8 181546.4 -1740.8 | 5272 9.1 182929.1 -1716.1 | 5362 8.9 184511.8 -1701.4 | 5452 9.6 185622.3 -1728.9 |
| 5183 9.1 181606.5 -1759.2 | 5273 8.6 182933.8 -1704.2 | 5363 9.5 184528.9 -1744.2 | 5453 8.2 185623.4 -1732.3 |
| 5184 9.3 181614.0 -1747.0 | 5274 9.5 183004.8 -1706.1 | 5364 9.5 184534.8 -1738.8 | 5454 8.0 185627.4 -1704.1 |
| 5185 9.2 181623.1 -1719.0 | 5275 9.5 183024.9 -1723.2 | 5365 9.2 184535.7 -1743.7 | 5455 10. 185632.0 -1743.1 |
| 5186 10. 181633.2 -1729.5 | 5276 9.5 183030.4 -1725.6 | 5366 9.3 184546.6 -1719.5 | 5456 9.5 185644.6 -1749.0 |
| 5187 9.0 181649.1 -1735.6 | 5277 9.2 183043.3 -1734.5 | 5367 9.5 184554.4 -1750.1 | 5457 3.8 185645.2 -1727.9 |
| 5188 9.7 181650.6 -1728.4 | 5278 9.2 183101.7 -1748.5 | 5368 9.2 184600.9 -1720.5 | 5458 9.4 185651.6 -1700.5 |
| 5189 9.5 181702.6 -1722.1 | 5279 9.6 183125.4 -1701.6 | 5369 9.1 184603.2 -1702.7 | 5459 8.0 185652.7 -1704.6 |
| 5190 9.0 181722.3 -1708.7 | 5280 9.7 183136.3 -1741.8 | 5370 9.4 184616.4 -1719.2 | 5460 9.0 185708.1 -1722.7 |
| 5191 9.1 181733.1 -1708.1 | 5281 9.0 183137.4 -1754.1 | 5371 8.8 184623.7 -1720.2 | 5461 9.5 185732.0 -1739.3 |
| 5192 9.3 181739.7 -1752.0 | 5282 9.8 183204.2 -1720.8 | 5372 9.1 184626.5 -1743.7 | 5462 10. 185734.8 -1750.8 |
| 5193 9.3 181804.8 -1713.4 | 5283 9.8 183208.9 -1707.5 | 5373 9.5 184630.6 -1740.2 | 5463 9.5 185737.1 -1727.3 |
| 5194 8.2 181813.4 -1744.0 | 5284 9.4 183209.7 -1703.9 | 5374 9.5 184643.6 -1751.6 | 5464 9.7 185743.6 -1750.9 |
| 5195 9.4 181821.5 -1719.2 | 5285 9.5 183218.3 -1756.4 | 5375 9.0 184653.5 -1748.5 | 5465 9.5 185746.2 -1742.9 |
| 5196 7.8 181830.2 -1716.1 | 5286 9.2 183231.5 -1723.3 | 5376 9.5 184657.1 -1732.8 | 5466 9.8 185801.8 -1707.8 |
| 5197 8.5 181840.3 -1724.3 | 5287 9.5 183233.6 -1717.5 | 5377 9.3 184703.8 -1721.5 | 5467 9.4 185814.7 -1727.5 |
| 5198 8.8 181845.9 -1721.5 | 5288 8.0 183255.2 -1712.3 | 5378 8.7 184714.0 -1755.9 | 5468 9.1 185816.4 -1731.0 |
| 5199 9.0 181851.4 -1701.1 | 5289 9.3 183309.1 -1755.7 | 5379 9.5 184718.1 -1704.7 | 5469 8.8 185819.0 -1727.4 |
| 5200 9.1 181903.2 -1715.3 | 5290 9.5 183317.1 -1741.8 | 5380 9.8 184722.2 -1755.9 | 5470 9.0 185819.1 -1719.2 |
| 5201 9.5 181917.0 -1744.6 | 5291 7.0 183345.3 -1708.6 | 5381 8.4 184727.2 -1745.2 | 5471 9.8 185825.1 -1709.8 |
| 5202 9.4 181923.3 -1741.5 | 5292 9.0 183357.0 -1759.1 | 5382 9.0 184731.8 -1723.8 | 5472 9.8 185828.5 -1759.1 |
| 5203 6.7 181928.1 -1752.9 | 5293 9.3 183417.4 -1703.0 | 5383 9.7 184733.0 -1735.2 | 5473 10. 185833.0 -1715.7 |
| 5204 9.6 181935.8 -1751.9 | 5294 9.5 183423.5 -1758.8 | 5384 9.5 184738.7 -1705.0 | 5474 10. 185834.9 -1722.2 |
| 5205 9.5 181948.7 -1759.5 | 5295 9.0 183427.1 -1753.3 | 5385 9.5 184745.8 -1723.8 | 5475 9.4 185845.4 -1730.2 |
| 5206 9.4 181952.3 -1713.2 | 5296 9.5 183427.9 -1749.5 | 5386 9.0 184757.3 -1740.3 | 5476 9.8 185850.9 -1707.7 |
| 5207 8.7 182008.8 -1703.5 | 5297 9.2 183431.1 -1724.9 | 5387 10. 184805.0 -1718.0 | 5477 9.7 185853.4 -1708.6 |
| 5208 9.2 182010.3 -1701.7 | 5298 9.5 183434.4 -1703.1 | 5388 7.2 184818.9 -1737.5 | 5478 7.1 185854.6 -1727.2 |
| 5209 9.5 182015.2 -1716.6 | 5299 9.5 183457.7 -1715.9 | 5389 8.7 184825.1 -1725.5 | 5479 9.0 185856.0 -1721.9 |
| 5210 9.1 182026.4 -1712.0 | 5300 9.0 183503.9 -1733.3 | 5390 9.7 184840.3 -1743.0 | 5480 9.5 185901.8 -1751.4 |
| 5211 9.8 182027.3 -1757.8 | 5301 8.2 183516.0 -1740.8 | 5391 9.8 184915.2 -1759.9 | 5481 9.4 185908.7 -1713.6 |
| 5212 9.8 182029.6 -1710.4 | 5302 9.4 183521.2 -1716.6 | 5392 9.7 184921.2 -1747.9 | 5482 9.5 185922.0 -1722.1 |
| 5213 9.0 182105.5 -1726.4 | 5303 7.7 183526.9 -1704.5 | 5393 9.6 184944.4 -1755.0 | 5483 9.1 185926.1 -1743.1 |
| 5214 9.4 182155.9 -1710.0 | 5304 9.8 183549.4 -1740.2 | 5394 9.4 184951.6 -1725.4 | 5484 9.2 185929.8 -1725.3 |
| 5215 9.7 182204.1 -1702.3 | 5305 9.8 183624.8 -1739.0 | 5395 9.2 185004.3 -1728.7 | 5485 9.4 185933.1 -1739.8 |
| 5216 9.7 182215.4 -1734.0 | 5306 9.8 183641.2 -1702.4 | 5396 9.0 185009.0 -1740.0 | 5486 9.5 185934.7 -1709.0 |
| 5217 9.7 182216.1 -1713.1 | 5307 9.5 183644.0 -1748.4 | 5397 9.4 185010.5 -1718.4 | 5487 9.1 185938.1 -1753.4 |
| 5218 9.2 182217.0 -1718.8 | 5308 10. 183703.2 -1723.6 | 5398 9.6 185019.4 -1719.6 | 5488 8.7 185946.9 -1726.8 |
| 5219 10. 182221.0 -1752.4 | 5309 10. 183709.4 -1705.0 | 5399 9.5 185025.3 -1743.2 | 5489 9.7 190016.5 -1736.5 |
| 5220 9.0 182226.6 -1721.2 | 5310 7.4 183710.9 -1741.3 | 5400 9.5 185043.6 -1702.6 | 5490 9.7 190016.8 -1738.8 |
| 5221 8.9 182251.2 -1752.3 | 5311 9.1 183725.7 -1754.4 | 5401 9.0 185045.5 -1716.6 | 5491 9.4 190022.2 -1731.4 |



|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|-----------|------|------|----------|---------|------|------|----------|---------|
| 5492 | 9.6  | 190025.7 | -1729.6 | 5582 | 9.5  | 191116.1 | -1710.0   | 5672 | 9.0  | 192547.4 | -1737.2 | 5762 | 9.8  | 194201.0 | -1741.5 |
| 5493 | 8.1  | 190031.4 | -1744.9 | 5583 | 9.4  | 191119.1 | -1708.6   | 5673 | 9.0  | 192615.0 | -1721.3 | 5763 | 9.8  | 194202.2 | -1717.0 |
| 5494 | 9.4  | 190034.1 | -1727.1 | 5584 | 3.7  | 191120.4 | -1716.0   | 5674 | 10.1 | 192616.9 | -1727.2 | 5764 | 9.5  | 194232.0 | -1725.1 |
| 5495 | 7.8  | 190102.3 | -1706.8 | 5585 | 3.9  | 191120.9 | -1713.1   | 5675 | 9.5  | 192636.1 | -1700.9 | 5765 | 9.5  | 194234.6 | -1751.8 |
| 5496 | 9.5  | 190116.4 | -1737.5 | 5586 | 9.8  | 191131.9 | -1745.1   | 5676 | 9.5  | 192654.8 | -1700.7 | 5766 | 9.3  | 194309.1 | -1712.6 |
| 5497 | 9.5  | 190116.9 | -1704.1 | 5587 | 9.5  | 191206.5 | -1726.8   | 5677 | 9.8  | 192656.9 | -1742.8 | 5767 | 9.6  | 194317.6 | -1715.7 |
| 5498 | 9.5  | 190128.6 | -1756.6 | 5588 | 8.1  | 191210.1 | -1718.3   | 5678 | 9.5  | 192708.6 | -1743.5 | 5768 | 8.5  | 194325.0 | -1737.6 |
| 5499 | 9.5  | 190130.8 | -1741.3 | 5589 | 5.0  | 191214.2 | -1723.5   | 5679 | 9.5  | 192735.9 | -1727.3 | 5769 | 9.4  | 194330.5 | -1754.9 |
| 5500 | 9.8  | 190133.7 | -1751.0 | 5590 | 10.1 | 191220.0 | -1741.6   | 5680 | 9.8  | 192745.6 | -1709.5 | 5770 | 9.5  | 194337.6 | -1758.5 |
| 5501 | 8.5  | 190139.1 | -1744.1 | 5591 | 9.5  | 191220.9 | -1711.9   | 5681 | 9.3  | 192806.5 | -1711.0 | 5771 | 9.0  | 194342.6 | -1739.5 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 5502 | 9.2  | 190158.8 | -1749.4 | 5592 | 9.4  | 191221.7 | -1743.4   | 5682 | 9.8  | 192813.8 | -1758.8 | 5772 | 9.3  | 194344.3 | -1708.4 |
| 5503 | 9.5  | 190210.9 | -1711.0 | 5593 | 9.4  | 191228.4 | -1714.7   | 5683 | 9.1  | 192816.0 | -1753.1 | 5773 | 9.0  | 194347.1 | -1745.3 |
| 5504 | 9.4  | 190213.6 | -1723.0 | 5594 | 9.9  | 191230.9 | -1732.7   | 5684 | 10.1 | 192819.2 | -1742.6 | 5774 | 9.3  | 194352.0 | -1736.4 |
| 5505 | 9.0  | 190215.0 | -1758.1 | 5595 | 9.5  | 191232.6 | -1742.9   | 5685 | 7.8  | 192819.6 | -1738.6 | 5775 | 9.8  | 194357.2 | -1707.3 |
| 5506 | 9.5  | 190229.6 | -1727.1 | 5596 | 9.4  | 191246.5 | -1721.1   | 5686 | 9.9  | 192824.6 | -1756.8 | 5776 | 7.8  | 194400.7 | -1714.8 |
| 5507 | 9.4  | 190232.4 | -1710.4 | 5597 | 8.8  | 191304.1 | -1729.3   | 5687 | 9.9  | 192839.2 | -1701.0 | 5777 | 9.5  | 194418.7 | -1743.6 |
| 5508 | 9.4  | 190239.8 | -1744.3 | 5598 | 7.2  | 191319.3 | -1730.5   | 5688 | 9.5  | 192843.9 | -1739.4 | 5778 | 9.3  | 194431.8 | -1719.5 |
| 5509 | 9.5  | 190246.5 | -1729.2 | 5599 | 9.5  | 191320.2 | -1745.7   | 5689 | 9.2  | 192849.6 | -1702.2 | 5779 | 8.9  | 194433.2 | -1723.6 |
| 5510 | 8.3  | 190251.1 | -1740.0 | 5600 | 9.7  | 191344.8 | -1704.7   | 5690 | 8.2  | 192856.9 | -1729.1 | 5780 | 9.4  | 194434.9 | -1721.7 |
| 5511 | 9.5  | 190251.0 | -1759.3 | 5601 | 9.1  | 191356.7 | -1735.3   | 5691 | 9.5  | 192928.5 | -1752.4 | 5781 | 9.3  | 194500.0 | -1744.9 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 5512 | 9.5  | 190320.6 | -1702.8 | 5602 | 9.4  | 191422.1 | -1717.3   | 5692 | 9.6  | 192929.4 | -1732.2 | 5782 | 9.5  | 194509.1 | -1713.4 |
| 5513 | 9.4  | 190325.3 | -1714.4 | 5603 | 9.4  | 191425.4 | -1728.2   | 5693 | 9.7  | 192932.9 | -1731.4 | 5783 | 9.8  | 194514.1 | -1717.9 |
| 5514 | 9.3  | 190332.5 | -1750.7 | 5604 | 8.2  | 191435.7 | -1747.4   | 5694 | 9.7  | 192943.2 | -1753.5 | 5784 | 9.3  | 194528.3 | -1717.0 |
| 5515 | 9.2  | 190336.3 | -1713.6 | 5605 | 9.2  | 191436.6 | -1735.8   | 5695 | 9.7  | 192949.3 | -1740.5 | 5785 | 9.3  | 194531.5 | -1701.1 |
| 5516 | 9.7  | 190339.4 | -1733.2 | 5606 | 9.8  | 191500.4 | -1728.5   | 5696 | 8.5  | 193021.4 | -1725.0 | 5786 | 9.2  | 194543.1 | -1750.1 |
| 5517 | 9.2  | 190348.4 | -1756.2 | 5607 | 9.5  | 191503.9 | -1702.4   | 5697 | 9.5  | 193023.5 | -1749.6 | 5787 | 8.7  | 194548.0 | -1747.1 |
| 5518 | 9.5  | 190348.5 | -1750.1 | 5608 | 8.3  | 191515.8 | -1752.4   | 5698 | 9.0  | 193048.5 | -1743.8 | 5788 | 9.8  | 194554.6 | -1743.0 |
| 5519 | 9.5  | 190356.9 | -1738.8 | 5609 | 9.5  | 191516.5 | -1758.0   | 5699 | 6.8  | 193052.2 | -1713.9 | 5789 | 9.4  | 194616.8 | -1751.9 |
| 5520 | 9.4  | 190416.3 | -1717.2 | 5610 | 9.3  | 191521.6 | -1743.3   | 5700 | 9.7  | 193104.7 | -1755.4 | 5790 | 9.4  | 194617.0 | -1769.1 |
| 5521 | 8.9  | 190421.6 | -1714.2 | 5611 | 7.0  | 191526.6 | -1727.7   | 5701 | 9.5  | 193130.0 | -1718.4 | 5791 | 8.6  | 194636.9 | -1725.8 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 5522 | 8.8  | 190431.8 | -1714.0 | 5612 | 10.1 | 191539.4 | -1735.7   | 5702 | 9.5  | 193135.7 | -1729.7 | 5792 | 9.7  | 194638.7 | -1716.6 |
| 5523 | 9.7  | 190438.2 | -1753.9 | 5613 | 9.4  | 191544.6 | -1747.0   | 5703 | 9.0  | 193136.0 | -1722.5 | 5793 | 9.8  | 194639.4 | -1719.8 |
| 5524 | 9.7  | 190451.3 | -1749.1 | 5614 | 9.8  | 191559.5 | -1744.4   | 5704 | 8.8  | 193138.7 | -1746.8 | 5794 | 9.6  | 194646.9 | -1708.8 |
| 5525 | 9.1  | 190452.1 | -1720.7 | 5615 | 9.8  | 191617.8 | -1753.5   | 5705 | 9.5  | 193157.5 | -1756.1 | 5795 | 8.5  | 194716.1 | -1756.2 |
| 5526 | 9.3  | 190452.3 | -1719.8 | 5616 | 9.3  | 191625.8 | -1754.1   | 5706 | 8.5  | 193158.0 | -1712.5 | 5796 | 10.1 | 194726.0 | -1746.6 |
| 5527 | 9.0  | 190526.2 | -1704.4 | 5617 | 8.8  | 191635.2 | -1747.0   | 5707 | 9.5  | 193202.0 | -1714.0 | 5797 | 9.5  | 194731.9 | -1753.3 |
| 5528 | 9.3  | 190528.3 | -1747.3 | 5618 | 9.0  | 191639.3 | -1757.8   | 5708 | 9.3  | 193215.0 | -1716.3 | 5798 | 9.3  | 194739.7 | -1702.6 |
| 5529 | 9.5  | 190531.0 | -1755.1 | 5619 | 9.3  | 191653.9 | -1709.2   | 5709 | 9.5  | 193224.4 | -1752.5 | 5799 | 9.8  | 194749.8 | -1729.7 |
| 5530 | 9.4  | 190538.5 | -1731.7 | 5620 | 8.7  | 191657.3 | -1755.5   | 5710 | 9.3  | 193224.7 | -1710.5 | 5800 | 9.9  | 194754.2 | -1724.6 |
| 5531 | 9.5  | 190548.9 | -1736.4 | 5621 | 7.8  | 191658.4 | -1706.8   | 5711 | 9.5  | 193250.4 | -1705.2 | 5801 | 9.8  | 194831.0 | -1743.0 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 5532 | 9.5  | 190553.5 | -1716.1 | 5622 | 7.9  | 191700.2 | -1701.1   | 5712 | 9.3  | 193254.2 | -1726.4 | 5802 | 9.1  | 194844.8 | -1751.3 |
| 5533 | 9.3  | 190610.9 | -1742.6 | 5623 | 9.3  | 191715.0 | -1713.5   | 5713 | 9.8  | 193256.4 | -1739.6 | 5803 | 9.5  | 194900.0 | -1701.9 |
| 5534 | 9.0  | 190621.8 | -1715.8 | 5624 | 9.5  | 191726.8 | -1727.1   | 5714 | 9.2  | 193308.0 | -1740.6 | 5804 | 8.9  | 194909.7 | -1728.0 |
| 5535 | 6.8  | 190626.0 | -1735.5 | 5625 | 9.6  | 191728.5 | -1727.6   | 5715 | 10.1 | 193314.5 | -1721.4 | 5805 | 9.8  | 194913.1 | -1737.3 |
| 5536 | 9.0  | 190626.6 | -1758.2 | 5626 | 9.8  | 191734.1 | -1717.4   | 5716 | 9.5  | 193326.0 | -1715.9 | 5806 | 9.9  | 194914.7 | -1725.6 |
| 5537 | 9.0  | 190634.3 | -1719.9 | 5627 | 9.1  | 191743.3 | -1708.0   | 5717 | 9.5  | 193342.0 | -1722.1 | 5807 | 9.7  | 194918.0 | -1725.1 |
| 5538 | 9.5  | 190642.6 | -1729.0 | 5628 | 9.8  | 191745.6 | -1752.5   | 5718 | 9.8  | 193344.4 | -1736.9 | 5808 | 9.5  | 194918.4 | -1750.4 |
| 5539 | 9.5  | 190646.8 | -1712.2 | 5629 | 8.0  | 191759.7 | -1724.9   | 5719 | 9.8  | 193353.5 | -1732.1 | 5809 | 9.5  | 194927.6 | -1754.5 |
| 5540 | 8.8  | 190711.7 | -1706.6 | 5630 | 10.1 | 191800.1 | -1756.5   | 5720 | 9.7  | 193358.4 | -1733.2 | 5810 | 9.1  | 194943.4 | -1753.8 |
| 5541 | 9.2  | 190714.9 | -1743.7 | 5631 | 9.6  | 191815.8 | -1712.9   | 5721 | 9.3  | 193430.7 | -1759.9 | 5811 | 9.5  | 195011.2 | -1726.4 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 5542 | 9.2  | 190719.9 | -1740.5 | 5632 | 9.6  | 191816.0 | -1713.7   | 5722 | 9.7  | 193431.9 | -1738.7 | 5812 | 9.5  | 195023.7 | -1745.7 |
| 5543 | 9.0  | 190739.3 | -1736.3 | 5633 | 7.9  | 191825.5 | -1704.2   | 5723 | 9.5  | 193438.4 | -1722.7 | 5813 | 9.5  | 195028.7 | -1752.9 |
| 5544 | 9.1  | 190739.6 | -1728.7 | 5634 | 10.1 | 191825.7 | -1746.0   | 5724 | 9.3  | 193441.4 | -1743.4 | 5814 | 9.5  | 195033.8 | -1722.6 |
| 5545 | 9.2  | 190744.9 | -1704.8 | 5635 | 9.5  | 191829.2 | -1742.7   | 5725 | 9.5  | 193453.0 | -1730.1 | 5815 | 9.5  | 195040.1 | -1726.7 |
| 5546 | 30.0 | 190752.1 | -1713.2 | 5636 | 9.4  | 191834.8 | -1718.1   | 5726 | 9.5  | 193502.1 | -1714.0 | 5816 | 9.3  | 195112.2 | -1727.1 |
| 5547 | 9.5  | 190754.0 | -1752.1 | 5637 | 9.5  | 191853.3 | -1754.9   | 5727 | 9.8  | 193523.0 | -1752.5 | 5817 | 9.5  | 195116.4 | -1758.3 |
| 5548 | 9.1  | 190755.5 | -1735.4 | 5638 | 9.3  | 191902.3 | -1758.0   | 5728 | 9.6  | 193523.6 | -1718.0 | 5818 | 10.1 | 195132.2 | -1709.1 |
| 5549 | 9.5  | 190759.3 | -1750.3 | 5639 | 9.1  | 191914.2 | -1737.8   | 5729 | 9.8  | 193545.0 | -1759.1 | 5819 | 9.5  | 195135.1 | -1732.3 |
| 5550 | 9.5  | 190811.8 | -1720.4 | 5640 | 9.3  | 192002.2 | -1731.1   | 5730 | 10.1 | 193554.2 | -1743.4 | 5820 | 9.4  | 195148.7 | -1754.9 |
| 5551 | 9.1  | 190816.2 | -1742.9 | 5641 | 9.3  | 192012.9 | -1709.0   | 5731 | 10.1 | 193609.2 | -1756.4 | 5821 | 9.5  | 195152.1 | -1737.3 |
|      |      |          |         |      |      |          |           |      |      |          |         |      |      |          |         |
| 5552 | 9.0  | 190816.7 | -1754.4 | 5642 | 9.5  | 192015.1 | -1758.5   | 5732 | 7.8  | 193609.6 | -1744.3 | 5822 | 9.5  | 195212.0 | -1727.8 |
| 5553 | 9.2  | 190822.2 | -1748.3 | 5643 | 9.0  | 192040.7 | -1752.0   | 5733 | 8.9  | 193629.8 | -1746.7 | 5823 | 9.4  | 195222.1 | -1728.9 |
| 5554 | 9.2  | 190832.4 | -1717.5 | 5644 | 9.3  | 192057.3 | -1759.5   | 5734 | 9.4  | 193629.9 | -1759.8 | 5824 | 9.5  | 195236.3 | -1703.6 |
| 5555 | 8.2  | 190839.3 | -1718.0 | 5645 | 10.1 | 192058.2 | -1747.5   | 5735 | 10.1 | 193649.0 | -1726.1 | 5825 | 10.1 | 195241.2 | -1711.0 |
| 5556 | 9.3  | 190842.8 | -1722.7 | 5646 | 10.1 | 192116.1 | -1705.1   | 5736 | 9.0  | 193653.1 | -1750.1 | 5826 | 9.8  | 195241.6 | -1734.7 |
| 5557 | 9.5  | 190843.7 | -1714.8 | 5647 | 8.5  | 192141.0 | -1751.3   | 5737 | 9.0  | 193656.2 | -1725.7 | 5827 | 9.0  | 195246.2 | -1748.2 |
| 5558 | 9.8  | 190858.9 | -1709.5 | 5648 | 9.7  | 192223.0 | -1720.1</ |      |      |          |         |      |      |          |         |



-17 5852 19h56m

5852 9.5 195648.0 -1700.5  
5853 9.3 195657.0 -1717.8  
5854 9.5 195710.3 -1748.0  
5855 9.8 195723.7 -1753.4  
5856 9.7 195724.0 -1707.7  
5857 9.0 195731.2 -1711.0  
5858 9.6 195806.2 -1753.8  
5859 9.4 195822.1 -1726.8  
5860 7.8 195845.2 -1736.0  
5861 8.7 195910.4 -1722.1  
  
5862 9.3 195924.6 -1707.7  
5863 9.1 195925.9 -1749.9  
5864 9.1 195926.1 -1724.7  
5865 9.2 195944.3 -1714.0  
5866 9.8 195952.0 -1723.4  
5867 10. 200010.3 -1718.4  
5868 9.4 200010.8 -1746.8  
5869 9.3 200011.5 -1749.0  
5870 9.8 200030.1 -1713.4  
5871 9.8 200043.1 -1734.0  
  
5872 9.8 200051.3 -1723.7  
5873 9.8 200114.2 -1733.1  
5874 9.8 200130.7 -1755.4  
5875 8.3 200135.4 -1731.9  
5876 9.6 200139.1 -1702.2  
5877 9.5 200148.1 -1711.8  
5878 9.8 200204.4 -1706.8  
5879 9.3 200206.3 -1718.0  
5880 9.6 200208.2 -1726.1  
5881 9.5 200221.2 -1729.6  
  
5882 9.5 200229.8 -1711.2  
5883 9.6 200230.3 -1759.0  
5884 8.3 200251.7 -1723.6  
5885 10. 200300.2 -1731.8  
5886 9.8 200309.2 -1757.2  
5887 9.7 200322.4 -1708.8  
5888 9.5 200334.8 -1756.9  
5889 9.4 200347.7 -1745.9  
5890 9.4 200351.3 -1753.6  
5891 8.9 200354.2 -1716.9  
  
5892 9.8 200354.2 -1732.3  
5893 9.0 200400.2 -1727.8  
5894 9.1 200412.3 -1758.9  
5895 9.3 200429.8 -1701.8  
5896 9.8 200435.7 -1746.1  
5897 9.8 200437.7 -1707.9  
5898 9.5 200445.2 -1759.4  
5899 9.0 200448.3 -1746.0  
5900 10. 200453.1 -1714.0  
5901 8.5 200459.1 -1718.6  
  
5902 9.8 200501.6 -1752.4  
5903 9.3 200504.3 -1719.7  
5904 9.1 200518.5 -1724.2  
5905 9.4 200537.4 -1729.7  
5906 7.7 200542.8 -1706.1  
5907 9.2 200555.3 -1756.9  
5908 9.2 200558.4 -1732.2  
5909 9.0 200605.3 -1702.8  
5910 8.5 200637.7 -1711.1  
5911 9.8 200642.8 -1747.6  
  
5912 9.5 200656.2 -1731.1  
5913 7.3 200657.6 -1717.2  
5914 9.8 200706.2 -1732.9  
5915 9.6 200714.7 -1703.7  
5916 9.3 200746.0 -1731.2  
5917 9.8 200752.0 -1758.2  
5918 9.2 200754.0 -1750.5  
5919 10. 200755.9 -1744.9  
5920 10. 200756.7 -1731.6  
5921 8.0 200806.1 -1718.0  
  
5922 9.8 200830.1 -1739.1  
5923 10. 200842.4 -1701.6  
5924 7.8 200852.5 -1725.5  
5925 9.5 200859.2 -1711.3  
5926 5.9 200914.6 -1745.6  
5927 9.5 200919.8 -1759.7  
5928 9.8 200931.2 -1719.0  
5929 9.4 200934.0 -1733.2  
5930 9.8 200954.3 -1723.9  
5931 9.8 201020.4 -1708.9  
  
5932 9.3 201031.8 -1754.6  
5933 9.1 201041.4 -1741.1  
5934 9.3 201047.4 -1739.6  
5935 9.4 201048.0 -1732.9  
5936 8.0 201125.8 -1756.2  
5937 9.8 201141.8 -1759.7  
5938 9.8 201148.4 -1721.4  
5939 8.5 201150.9 -1757.1  
5940 9.4 201154.7 -1741.4  
5941 9.4 201204.3 -1725.8

5942 9.8 201210.2 -1745.5  
5943 9.4 201222.4 -1752.0  
5944 9.5 201228.2 -1702.8  
5945 9.5 201228.3 -1728.1  
5946 9.7 201228.4 -1700.4  
5947 7.8 201240.4 -1716.8  
5948 9.0 201244.3 -1727.8  
5949 8.6 201245.1 -1708.8  
5950 8.9 201256.6 -1730.7  
5951 8.7 201307.2 -1739.9  
  
5952 9.2 201341.5 -1742.6  
5953 9.4 201346.1 -1748.5  
5954 8.0 201357.3 -1714.0  
5955 9.4 201410.9 -1756.3  
5956 9.8 201415.5 -1700.8  
5957 9.9 201422.4 -1755.4  
5958 9.4 201447.7 -1716.0  
5959 9.2 201459.9 -1740.6  
5960 9.8 201508.2 -1718.2  
5961 9.1 201537.8 -1744.5  
  
5962 9.4 201548.7 -1746.5  
5963 9.3 201552.6 -1726.7  
5964 9.5 201555.4 -1703.2  
5965 9.2 201611.6 -1731.8  
5966 9.8 201614.3 -1721.6  
5967 8.5 201617.4 -1728.5  
5968 9.4 201631.4 -1729.0  
5969 9.5 201633.5 -1744.0  
5970 9.8 201702.9 -1710.7  
5971 9.5 201706.4 -1717.9  
  
5972 9.1 201708.9 -1746.9  
5973 9.4 201802.2 -1727.8  
5974 9.8 201813.7 -1741.2  
5975 6.8 201815.5 -1750.7  
5976 9.8 201820.3 -1725.1  
5977 9.8 201833.4 -1717.1  
5978 9.2 201838.8 -1709.6  
5979 8.5 201852.6 -1734.0  
5980 9.1 201858.1 -1727.2  
5981 9.8 201910.4 -1709.9  
  
5982 9.0 201910.9 -1732.1  
5983 9.7 201926.8 -1716.7  
5984 9.5 201938.4 -1713.0  
5985 9.5 201946.3 -1718.4  
5986 9.6 201957.9 -1742.0  
5987 8.6 202008.9 -1748.3  
5988 9.7 202026.8 -1744.2  
5989 9.2 202029.7 -1758.0  
5990 9.8 202031.3 -1753.3  
5991 9.8 202038.1 -1727.0  
  
5992 7.3 202043.8 -1754.2  
5993 10. 202056.1 -1759.6  
5994 9.0 202119.3 -1753.0  
5995 9.5 202127.4 -1747.7  
5996 10. 202134.5 -1713.2  
5997 9.8 202135.0 -1735.4  
5998 9.3 202149.6 -1722.6  
5999 9.0 202157.7 -1730.9  
6000 9.8 202200.6 -1741.4  
6001 9.4 202202.8 -1712.5  
  
6002 9.9 202209.9 -1751.5  
6003 7.8 202226.0 -1701.6  
6004 9.5 202230.3 -1714.4  
6005 10. 202254.1 -1736.4  
6006 10. 202303.7 -1715.3  
6007 7.8 202306.0 -1737.2  
6008 9.6 202322.5 -1713.1  
6009 9.7 202329.8 -1744.3  
6010 9.6 202340.1 -1751.2  
6011 9.5 202349.0 -1716.5  
  
6012 9.7 202400.8 -1753.7  
6013 8.6 202401.9 -1728.9  
6014 7.0 202417.9 -1705.5  
6015 9.4 202456.2 -1727.4  
6016 9.5 202512.8 -1758.3  
6017 9.5 202520.9 -1758.5  
6018 9.9 202534.2 -1715.0  
6019 10. 202559.4 -1737.2  
6020 9.2 202559.4 -1745.5  
6021 9.0 202621.8 -1724.4  
  
6022 9.6 202637.8 -1737.1  
6023 10. 202639.7 -1731.2  
6024 9.8 202700.3 -1739.8  
6025 9.5 202705.8 -1700.4  
6026 9.5 202708.7 -1702.8  
6027 6.2 202719.7 -1701.2  
6028 9.4 202724.2 -1731.1  
6029 8.9 202726.3 -1743.1  
6030 9.8 202736.0 -1705.0  
6031 8.7 202801.8 -1731.1

6032 10. 202804.2 -1751.3  
6033 9.5 202828.8 -1722.3  
6034 9.1 202838.7 -1730.8  
6035 9.8 202841.4 -1715.5  
6036 9.5 202905.3 -1704.0  
6037 9.5 202906.4 -1722.9  
6038 9.5 202919.8 -1705.1  
6039 7.2 202935.2 -1737.2  
6040 9.3 202943.0 -1748.7  
6041 10. 202946.3 -1703.7  
  
6042 10. 202948.3 -1706.6  
6043 10. 202948.5 -1750.4  
6044 9.9 203028.3 -1715.6  
6045 8.2 203029.7 -1733.8  
6046 7.3 203052.4 -1703.7  
6047 9.9 203116.3 -1713.3  
6048 9.9 203121.3 -1717.8  
6049 10. 203121.8 -1720.0  
6050 10. 203149.3 -1727.2  
6051 9.9 203209.3 -1733.1  
  
6052 10. 203216.6 -1747.1  
6053 9.8 203219.0 -1710.6  
6054 9.3 203232.4 -1725.4  
6055 9.1 203243.7 -1753.5  
6056 9.5 203246.8 -1734.5  
6057 9.5 203301.6 -1713.7  
6058 9.2 203305.5 -1712.1  
6059 7.5 203306.1 -1753.1  
6060 8.7 203401.3 -1735.5  
6061 10. 203414.4 -1742.9  
  
6062 9.5 203452.6 -1714.8  
6063 9.5 203501.2 -1746.9  
6064 9.5 203506.4 -1732.0  
6065 9.3 203509.2 -1721.4  
6066 9.5 203529.8 -1744.9  
6067 9.2 203541.5 -1717.1  
6068 9.5 203545.4 -1707.2  
6069 9.5 203559.6 -1710.8  
6070 9.8 203617.0 -1723.0  
6071 10. 203617.4 -1717.0  
  
6072 9.7 203649.5 -1738.5  
6073 9.8 203705.2 -1758.8  
6074 9.7 203710.5 -1711.2  
6075 10. 203745.8 -1745.4  
6076 9.0 203802.9 -1747.7  
6077 9.5 203810.0 -1713.9  
6078 9.5 203814.4 -1704.4  
6079 9.0 203814.6 -1724.2  
6080 8.5 203820.4 -1713.7  
6081 8.0 203821.9 -1740.9  
  
6082 10. 203834.5 -1726.4  
6083 9.3 203855.3 -1745.3  
6084 10. 203900.5 -1748.9  
6085 9.8 203926.5 -1715.8  
6086 9.2 203948.0 -1700.0  
6087 9.2 203957.6 -1727.0  
6088 8.0 204002.7 -1716.0  
6089 7.0 204003.5 -1702.5  
6090 10. 204019.8 -1708.6  
6091 9.4 204021.6 -1729.4  
  
6092 9.8 204036.6 -1701.8  
6093 9.5 204043.0 -1744.1  
6094 9.8 204043.1 -1719.8  
6095 9.3 204053.1 -1728.7  
6096 9.8 204054.5 -1750.5  
6097 9.3 204101.0 -1736.6  
6098 9.5 204105.4 -1702.0  
6099 9.1 204113.2 -1709.5  
6100 9.7 204132.0 -1705.3  
6101 9.3 204150.1 -1728.8  
  
6102 9.3 204156.1 -1705.3  
6103 9.9 204217.3 -1742.7  
6104 8.5 204245.3 -1749.5  
6105 9.9 204251.6 -1727.0  
6106 10. 204309.6 -1729.7  
6107 9.5 204325.4 -1710.9  
6108 9.7 204335.6 -1709.4  
6109 9.8 204344.2 -1727.5  
6110 9.0 204346.7 -1703.4  
6111 9.8 204411.7 -1736.5  
  
6112 8.7 204444.4 -1732.6  
6113 9.1 204505.3 -1751.5  
6114 9.0 204530.8 -1725.6  
6115 9.3 204533.9 -1746.6  
6116 9.9 204537.9 -1758.1  
6117 9.2 204539.2 -1715.5  
6118 10. 204557.0 -1756.5  
6119 9.3 204630.6 -1744.1  
6120 9.5 204631.1 -1714.0  
6121 10. 204650.1 -1737.7

-17 6211 21h05m

6122 9.4 204656.9 -1713.1  
6123 9.0 204710.0 -1705.7  
6124 9.8 204712.3 -1749.5  
6125 9.2 204712.6 -1713.2  
6126 10. 204727.1 -1714.1  
6127 7.3 204737.1 -1739.6  
6128 9.9 204751.8 -1744.6  
6129 7.8 204758.5 -1747.4  
6130 9.1 204840.0 -1715.4  
6131 9.6 204846.7 -1738.1  
  
6132 9.4 204913.4 -1716.7  
6133 9.1 204920.0 -1703.2  
6134 9.8 204952.3 -1734.7  
6135 8.8 205005.1 -1714.9  
6136 10. 205012.2 -1720.2  
6137 8.6 205012.3 -1734.2  
6138 9.6 205039.3 -1740.8  
6139 10. 205103.5 -1754.0  
6140 8.5 205118.7 -1762.2  
6141 10. 205124.5 -1722.6  
  
6142 9.6 205132.5 -1749.9  
6143 10. 205137.4 -1758.5  
6144 8.7 205149.6 -1750.2  
6145 9.2 205201.8 -1714.0  
6146 10. 205206.6 -1716.8  
6147 9.8 205212.6 -1718.6  
6148 10. 205225.6 -1733.3  
6149 9.5 205226.2 -1738.6  
6150 9.5 205239.1 -1752.9  
6151 10. 205244.3 -1706.9  
  
6152 9.8 205308.3 -1757.6  
6153 9.7 205310.9 -1741.2  
6154 9.0 205321.5 -1725.4  
6155 6.0 205328.5 -1700.3  
6156 10. 205337.9 -1758.2  
6157 9.8 205357.0 -1705.1  
6158 8.2 205413.1 -1752.4  
6159 9.8 205419.7 -1722.8  
6160 9.8 205420.8 -1759.8  
6161 10. 205534.6 -1720.5  
  
6162 9.5 205534.7 -1702.2  
6163 10. 205537.0 -1742.5  
6164 9.5 205540.9 -1721.7  
6165 9.5 205541.3 -1744.6  
6166 9.2 205545.0 -1756.2  
6167 7.7 205643.6 -1744.2  
6168 9.8 205702.0 -1744.4  
6169 9.9 205726.0 -1743.0  
6170 9.0 205726.6 -1736.2  
6171 10. 205733.9 -1726.0  
  
6172 10. 205735.8 -1729.3  
6173 9.4 205742.4 -1717.5  
6174 4.0 205747.8 -1748.0  
6175 9.0 205811.9 -1725.0  
6176 9.8 205915.5 -1707.1  
6177 9.5 205930.5 -1707.1  
6178 9.1 205935.5 -1707.2  
6179 10. 205935.9 -1718.8  
6180 9.5 205944.2 -1758.9  
6181 8.2 205909.7 -1700.2  
  
6182 9.5 205916.4 -1746.6  
6183 9.5 205920.0 -1707.0  
6184 9.0 205922.6 -1704.0  
6185 9.8 205929.1 -1705.2  
6186 9.2 205948.2 -1702.2  
6187 10. 210000.6 -1728.7  
6188 9.8 210003.4 -1705.9  
6189 8.3 210007.2 -1718.4  
6190 10. 210020.4 -1734.0  
6191 9.2 210034.3 -1752.0  
  
6192 9.6 210108.1 -1759.0  
6193 7.0 210119.1 -1712.0  
6194 9.8 210120.5 -1734.5  
6195 9.1 210148.8 -1750.5  
6196 8.3 210216.4 -1732.4  
6197 9.9 210221.5 -1729.7  
6198 10. 210236.7 -1710.2  
6199 10. 210246.2 -1712.3  
6200 9.5 210250.0 -1726.3  
6201 9.8 210331.1 -1706.2  
  
6202 9.5 210414.2 -1710.9  
6203 9.0 210427.0 -1776.1  
6204 9.9 210442.9 -1756.1  
6205 9.8 210444.2 -1710.6  
6206 9.2 210448.9 -1746.1  
6207 9.8 210459.6 -1730.1  
6208 9.5 210505.1 -1737.3  
6209 9.9 210516.9 -1742.8  
6210 9.5 210526.6 -1736.2  
6211 9.3 210537.6 -1726.6



-17 6212 21h05m

6212 9.3 210556.5 -1717.5  
6213 9.1 210602.8 -1752.0  
6214 9.0 210639.3 -1749.0  
6215 9.4 210652.8 -1710.5  
6216 6.5 210659.7 -1756.0  
6217 9.8 210729.3 -1709.5  
6218 9.8 210729.3 -1751.4  
6219 9.9 210731.0 -1742.2  
6220 9.8 210733.2 -1717.6  
6221 10.1 210813.3 -1755.3  
  
6222 10.1 210825.3 -1706.9  
6223 9.9 210843.2 -1754.9  
6224 9.3 210850.5 -1750.7  
6225 10.1 210851.4 -1734.2  
6226 10.1 210909.5 -1742.9  
6227 9.4 210921.3 -1747.0  
6228 9.4 210947.6 -1709.3  
6229 9.8 211004.7 -1748.0  
6230 9.5 211020.4 -1721.3  
6231 9.5 211035.8 -1734.7  
  
6232 9.4 211051.4 -1743.0  
6233 9.8 211113.9 -1755.3  
6234 9.2 211114.0 -1707.1  
6235 9.5 211119.1 -1759.3  
6236 9.5 211120.9 -1712.8  
6237 8.9 211132.3 -1723.5  
6238 8.8 211206.4 -1704.7  
6239 9.1 211213.2 -1737.2  
6240 9.5 211235.8 -1741.7  
6241 9.9 211239.3 -1729.2  
  
6242 9.5 211304.8 -1740.7  
6243 10.1 211306.5 -1734.3  
6244 9.5 211401.6 -1739.1  
6245 4.2 211409.9 -1726.8  
6246 9.3 211411.5 -1700.8  
6247 9.2 211440.0 -1709.1  
6248 10.1 211510.6 -1709.6  
6249 10.1 211511.4 -1730.4  
6250 9.3 211521.7 -1742.3  
6251 10.1 211535.5 -1718.8  
  
6252 10.1 211541.2 -1744.0  
6253 9.1 211550.0 -1703.2  
6254 10.1 211553.5 -1709.5  
6255 9.7 211557.9 -1705.3  
6256 9.4 211603.1 -1742.8  
6257 9.8 211612.7 -1723.0  
6258 9.5 211620.4 -1739.0  
6259 9.7 211630.9 -1743.4  
6260 9.5 211634.0 -1709.6  
6261 9.1 211700.6 -1740.4  
  
6262 8.8 211707.8 -1701.4  
6263 9.5 211732.0 -1725.0  
6264 10.1 211740.6 -1710.5  
6265 9.5 211749.1 -1709.9  
6266 9.8 211756.1 -1737.2  
6267 9.6 211824.1 -1716.9  
6268 9.3 211829.5 -1727.8  
6269 9.8 211840.0 -1704.2  
6270 8.5 211840.4 -1753.5  
6271 9.8 211848.1 -1709.6  
  
6272 9.1 211902.6 -1703.7  
6273 9.5 211922.6 -1712.7  
6274 9.8 211929.9 -1748.4  
6275 9.3 211930.6 -1740.7  
6276 9.8 211932.2 -1710.4  
6277 9.8 211935.0 -1731.1  
6278 9.8 211939.1 -1707.2  
6279 9.7 211940.5 -1755.9  
6280 9.3 211943.1 -1730.1  
6281 9.5 211951.8 -1730.7  
  
6282 9.3 211952.1 -1712.9  
6283 10.1 211952.9 -1756.8  
6284 9.4 212002.5 -1740.1  
6285 9.3 212010.8 -1714.0  
6286 9.1 212011.2 -1706.6  
6287 9.4 212013.3 -1735.7  
6288 8.5 212017.7 -1753.1  
6289 10.1 212023.9 -1702.3  
6290 10.1 212036.9 -1758.5  
6291 10.1 212043.9 -1756.7  
  
6292 9.4 212113.3 -1757.8  
6293 9.1 212120.1 -1737.6  
6294 9.7 212145.7 -1717.0  
6295 9.8 212148.7 -1754.4  
6296 10.1 212203.0 -1754.4  
6297 9.0 212205.2 -1719.8  
6298 9.8 212221.2 -1704.5  
6299 9.0 212223.4 -1747.3  
6300 10.1 212227.2 -1746.3  
6301 9.1 212228.6 -1732.3

6302 8.3 212311.8 -1753.6  
6303 10.1 212347.7 -1722.8  
6304 9.5 212350.4 -1705.2  
6305 9.7 212401.9 -1730.3  
6306 10.1 212419.7 -1727.9  
6307 9.4 212447.5 -1750.9  
6308 8.7 212604.4 -1754.1  
6309 9.8 212611.2 -1734.3  
6310 9.3 212611.8 -1704.3  
6311 10.1 212614.8 -1745.0  
  
6312 9.0 212624.8 -1723.1  
6313 9.1 212637.8 -1722.7  
6314 8.5 212638.4 -1709.8  
6315 8.9 212646.8 -1722.2  
6316 9.4 212657.6 -1702.6  
6317 9.8 212712.8 -1726.4  
6318 8.5 212742.9 -1717.6  
6319 9.1 212748.2 -1750.1  
6320 9.8 212809.8 -1743.7  
6321 8.5 212824.9 -1721.4  
  
6322 8.7 212836.0 -1744.8  
6323 9.5 212906.8 -1701.5  
6324 9.8 212907.0 -1713.2  
6325 9.2 212909.3 -1701.6  
6326 9.5 212916.9 -1733.8  
6327 9.5 212917.5 -1707.2  
6328 9.5 212926.3 -1732.9  
6329 7.8 212953.3 -1751.0  
6330 10.1 213005.7 -1748.4  
6331 10.1 213008.0 -1708.0  
  
6332 9.9 213029.9 -1736.2  
6333 8.2 213032.9 -1730.6  
6334 10.1 213057.7 -1721.4  
6335 9.8 213117.6 -1714.7  
6336 9.7 213119.8 -1714.1  
6337 9.8 213124.8 -1747.2  
6338 9.3 213129.5 -1712.1  
6339 9.4 213143.0 -1712.8  
6340 3.5 213203.1 -1719.0  
6341 9.9 213203.6 -1708.7  
  
6342 10.1 213232.0 -1721.1  
6343 8.5 213235.6 -1725.5  
6344 9.3 213244.9 -1731.5  
6345 9.8 213307.8 -1737.0  
6346 9.8 213323.8 -1748.4  
6347 9.8 213327.5 -1709.3  
6348 9.5 213345.5 -1756.0  
6349 7.5 213354.6 -1752.5  
6350 9.7 213407.3 -1738.5  
6351 9.8 213409.4 -1732.3  
  
6352 9.2 213414.3 -1738.1  
6353 9.1 213416.8 -1731.6  
6354 9.0 213434.0 -1713.3  
6355 9.1 213439.0 -1726.7  
6356 9.7 213445.5 -1728.5  
6357 10.1 213455.8 -1754.1  
6358 9.5 213507.5 -1717.7  
6359 9.9 213547.4 -1734.5  
6360 9.6 213601.4 -1739.4  
6361 9.8 213608.4 -1745.8  
  
6362 9.3 213636.2 -1703.3  
6363 8.1 213643.1 -1711.4  
6364 9.2 213659.6 -1725.0  
6365 9.2 213726.6 -1715.8  
6366 9.4 213738.0 -1736.4  
6367 10.1 213749.0 -1742.5  
6368 9.6 213820.7 -1756.3  
6369 9.7 213836.5 -1747.6  
6370 9.1 213854.2 -1712.2  
6371 8.0 213929.1 -1725.7  
  
6372 9.3 213931.5 -1704.8  
6373 7.5 213935.2 -1757.7  
6374 10.1 213935.4 -1707.5  
6375 9.2 213947.6 -1704.7  
6376 10.1 213952.2 -1740.9  
6377 9.3 214000.1 -1714.2  
6378 9.2 214002.3 -1741.7  
6379 10.1 214011.4 -1716.9  
6380 9.8 214058.2 -1727.3  
6381 9.8 214103.7 -1738.1  
  
6382 9.3 214113.5 -1720.8  
6383 9.8 214113.9 -1704.4  
6384 9.8 214138.6 -1749.2  
6385 9.3 214141.8 -1712.5  
6386 10.1 214142.0 -1716.1  
6387 9.6 214209.6 -1702.8  
6388 8.8 214211.7 -1758.8  
6389 6.7 214213.7 -1730.9  
6390 9.5 214223.5 -1709.0  
6391 9.2 214246.6 -1743.3

6392 9.4 214250.5 -1751.2  
6393 10.1 214328.9 -1715.5  
6394 9.3 214344.8 -1756.7  
6395 9.0 214430.3 -1725.3  
6396 9.4 214441.3 -1728.2  
6397 8.0 214442.3 -1744.8  
6398 8.2 214543.4 -1725.8  
6399 9.0 214545.5 -1712.1  
6400 9.5 214546.2 -1716.8  
6401 8.3 214603.5 -1750.8  
  
6402 9.4 214603.7 -1718.6  
6403 9.3 214610.6 -1719.1  
6404 9.8 214708.4 -1726.5  
6405 9.3 214716.5 -1712.2  
6406 9.5 214718.2 -1700.2  
6407 9.7 214748.9 -1742.1  
6408 9.7 214821.8 -1749.7  
6409 9.2 214931.1 -1714.7  
6410 9.7 215051.0 -1727.9  
6411 9.0 215121.6 -1732.4  
  
6412 8.0 215127.7 -1759.9  
6413 10.1 215129.0 -1703.8  
6414 9.0 215143.7 -1701.1  
6415 9.3 215204.5 -1736.4  
6416 8.9 215217.7 -1705.0  
6417 10.1 215220.6 -1725.0  
6418 9.5 215234.6 -1720.1  
6419 9.1 215300.7 -1752.0  
6420 9.9 215305.1 -1704.0  
6421 8.5 215353.6 -1728.1  
  
6422 6.8 215429.4 -1739.6  
6423 9.1 215450.3 -1707.9  
6424 30.0 215523.7 -1719.5  
6425 9.8 215534.3 -1758.4  
6426 9.2 215534.7 -1746.4  
6427 9.5 215537.5 -1736.2  
6428 9.3 215539.4 -1709.6  
6429 9.2 215544.8 -1759.3  
6430 10.1 215549.1 -1726.7  
6431 9.9 215628.7 -1734.2  
  
6432 9.9 215631.3 -1731.1  
6433 9.8 215707.2 -1733.2  
6434 9.5 215740.9 -1728.6  
6435 9.3 215756.8 -1742.8  
6436 10.1 215816.7 -1713.7  
6437 9.1 215816.8 -1737.7  
6438 9.5 215818.0 -1720.0  
6439 9.0 215839.9 -1721.5  
6440 9.8 215841.5 -1713.7  
6441 9.8 215842.0 -1709.6  
  
6442 9.5 215908.3 -1707.3  
6443 9.8 215925.4 -1730.9  
6444 9.3 215935.9 -1726.7  
6445 9.8 215955.4 -1729.5  
6446 8.9 215958.1 -1740.1  
6447 8.9 220003.4 -1733.0  
6448 8.8 220012.9 -1716.7  
6449 9.0 220013.5 -1723.8  
6450 9.4 220030.0 -1754.2  
6451 7.0 220031.5 -1715.1  
  
6452 8.9 220035.9 -1731.3  
6453 9.2 220037.1 -1740.1  
6454 8.8 220037.5 -1718.9  
6455 9.1 220112.0 -1726.5  
6456 10.1 220134.5 -1715.6  
6457 9.5 220146.4 -1743.0  
6458 9.7 220222.0 -1744.9  
6459 9.4 220333.1 -1757.3  
6460 9.5 220407.0 -1750.5  
6461 9.4 220422.6 -1757.1  
  
6462 9.6 220448.1 -1729.7  
6463 8.5 220512.7 -1719.8  
6464 9.2 220530.6 -1757.1  
6465 9.4 220549.7 -1730.3  
6466 10.1 220553.2 -1751.3  
6467 9.9 220630.6 -1732.1  
6468 8.8 220630.7 -1719.8  
6469 8.9 220704.7 -1751.9  
6470 9.8 220705.8 -1736.4  
6471 9.7 220709.2 -1759.8  
  
6472 9.8 220724.7 -1726.4  
6473 9.6 220727.1 -1738.9  
6474 9.2 220739.6 -1743.2  
6475 9.5 220741.2 -1742.7  
6476 9.8 220741.6 -1715.0  
6477 9.2 220813.5 -1739.0  
6478 8.3 220822.7 -1755.5  
6479 9.7 220844.7 -1737.9  
6480 8.0 220858.6 -1706.2  
6481 8.8 220904.2 -1742.5

6482 9.4 220917.8 -1722.0  
6483 9.9 220941.8 -1723.4  
6484 9.8 221014.8 -1750.7  
6485 9.5 221054.8 -1732.7  
6486 9.1 221059.6 -1751.9  
6487 9.1 221106.4 -1704.9  
6488 9.4 221115.9 -1749.0  
6489 9.4 221116.7 -1714.4  
6490 9.5 221130.1 -1737.0  
6491 7.5 221141.8 -1725.6  
  
6492 9.4 221157.4 -1723.0  
6493 9.4 221221.8 -1759.8  
6494 9.5 221231.0 -1749.5  
6495 9.2 221234.1 -1702.2  
6496 8.9 221235.9 -1718.1  
6497 9.7 221303.6 -1751.3  
6498 9.4 221318.0 -1739.0  
6499 9.5 221319.9 -1726.4  
6500 9.5 221348.4 -1753.0  
6501 9.3 221403.7 -1715.6  
  
6502 9.1 221415.4 -1735.4  
6503 9.7 221418.2 -1701.4  
6504 8.9 221429.0 -1725.3  
6505 9.5 221433.5 -1716.8  
6506 9.5 221435.1 -1709.7  
6507 9.9 221520.9 -1710.0  
6508 9.3 221521.5 -1736.6  
6509 9.8 221546.0 -1756.6  
6510 9.8 221547.5 -1724.5  
6511 9.0 221606.2 -1759.5  
  
6512 10.1 221624.1 -1730.8  
6513 9.5 221626.5 -1753.2  
6514 9.8 221654.4 -1757.1  
6515 8.8 221700.5 -1748.8  
6516 9.8 221705.1 -1726.1  
6517 9.5 221806.3 -1700.4  
6518 9.4 221819.6 -1738.8  
6519 9.4 221823.8 -1743.0  
6520 6.2 221841.3 -1728.6  
6521 6.5 221842.0 -1728.7  
  
6522 9.7 221843.4 -1713.5  
6523 9.4 221845.0 -1718.7  
6524 9.8 221853.9 -1748.3  
6525 8.8 221906.0 -1721.3  
6526 7.5 221912.1 -1759.7  
6527 9.6 221920.2 -1700.7  
6528 9.4 221933.2 -1734.9  
6529 9.2 221957.2 -1738.2  
6530 8.8 222144.7 -1732.5  
6531 9.8 222150.8 -1702.7  
  
6532 9.0 222154.3 -1732.5  
6533 9.7 222154.8 -1759.7  
6534 9.8 222156.8 -1713.3  
6535 9.3 222201.2 -1755.7  
6536 8.0 222209.3 -1712.1  
6537 7.0 222237.1 -1705.2  
6538 9.5 222250.9 -1738.3  
6539 9.4 222335.7 -1753.1  
6540 10.1 222342.2 -1737.1  
6541 9.4 222352.1 -1746.0  
  
6542 9.0 222353.0 -1720.8  
6543 9.6 222354.3 -1735.6  
6544 10.1 222355.2 -1753.4  
6545 9.3 222415.4 -1718.5  
6546 9.0 222428.9 -1736.4  
6547 9.2 222518.8 -1711.3  
6548 9.7 222619.8 -1755.5  
6549 9.0 222641.0 -1711.6  
6550 9.7 222701.1 -1727.9  
6551 9.5 222704.6 -1717.4  
  
6552 9.8 222715.5 -1712.3  
6553 9.8 222725.3 -1700.9  
6554 7.0 222819.0 -1707.8  
6555 9.7 222829.7 -1730.9  
6556 8.9 222835.1 -1724.0  
6557 8.7 222838.2 -1710.9  
6558 9.1 222844.8 -1729.0  
6559 10.1 222846.3 -1729.1  
6560 8.0 222855.5 -1733.0  
6561 9.8 222930.4 -1739.3  
  
6562 9.8 222938.9 -1755.1  
6563 9.0 222943.1 -1734.7  
6564 8.3 222945.1 -1707.3  
6565 9.7 223003.2 -1710.5  
6566 8.5 223042.7 -1713.2  
6567 10.1 223044.7 -1727.9  
6568 10.1 223207.2 -1722.2  
6569 9.5 223207.2 -1728.8  
6570 9.8 223248.5 -1701.3  
6571 7.5 223252.3 -1731.5

-17 6571 22h32m



6572 9.3 223304.3 -1717.0  
 6573 9.4 223341.3 -1727.5  
 6574 9.3 223402.9 -1710.7  
 6575 10. 223429.8 -1732.1  
 6576 9.5 223505.1 -1754.4  
 6577 9.4 223509.3 -1741.8  
 6578 10. 223522.5 -1740.5  
 6579 9.8 223542.3 -1725.5  
 6580 9.8 223604.4 -1713.4  
 6581 9.6 223625.7 -1739.1

6582 9.8 223637.2 -1751.7  
 6583 9.0 223728.0 -1703.2  
 6584 8.5 223732.2 -1721.0  
 6585 9.4 223732.5 -1719.0  
 6586 8.6 223749.0 -1720.2  
 6587 9.3 223750.8 -1759.9  
 6588 9.5 223813.7 -1703.6  
 6589 10. 223827.4 -1705.2  
 6590 8.9 223849.1 -1748.4  
 6591 8.0 223914.8 -1710.1

6592 9.0 223950.2 -1749.4  
 6593 8.6 224015.1 -1718.9  
 6594 9.7 224040.8 -1740.7  
 6595 10. 224046.6 -1736.8  
 6596 9.3 224055.2 -1721.8  
 6597 9.8 224055.8 -1756.2  
 6598 7.8 224108.4 -1745.4  
 6599 9.8 224115.8 -1757.9  
 6600 9.6 224118.9 -1721.3  
 6601 9.7 224122.2 -1739.3

6602 9.7 224156.2 -1725.3  
 6603 8.2 224221.2 -1704.5  
 6604 9.2 224224.3 -1753.1  
 6605 10. 224232.1 -1757.9  
 6606 9.5 224300.5 -1734.5  
 6607 9.8 224315.2 -1708.0  
 6608 9.8 224327.3 -1738.1  
 6609 9.9 224339.7 -1721.4  
 6610 10. 224416.1 -1741.5  
 6611 9.1 224418.3 -1726.8

6612 9.8 224421.2 -1721.9  
 6613 9.5 224427.0 -1752.7  
 6614 9.9 224433.6 -1732.2  
 6615 8.0 224443.7 -1725.5  
 6616 8.3 224531.1 -1756.0  
 6617 8.5 224555.7 -1700.7  
 6618 8.8 224633.3 -1748.3  
 6619 5.6 224704.6 -1702.2  
 6620 10. 224740.7 -1741.0  
 6621 9.3 224804.4 -1739.1

6622 9.7 224821.5 -1740.5  
 6623 10. 224837.7 -1719.3  
 6624 9.4 224837.9 -1725.6  
 6625 8.8 224911.9 -1702.6  
 6626 9.5 224922.6 -1756.0  
 6627 9.7 224929.5 -1704.1  
 6628 8.8 224945.0 -1744.0  
 6629 10. 224951.4 -1700.2  
 6630 8.5 224951.9 -1718.3  
 6631 9.1 224958.1 -1752.5

6632 9.5 225029.9 -1706.4  
 6633 9.5 225046.5 -1730.1  
 6634 9.3 225054.1 -1713.6  
 6635 9.0 225107.0 -1726.8  
 6636 8.5 225109.1 -1719.0  
 6637 9.0 225124.1 -1740.3  
 6638 8.2 225128.7 -1755.8  
 6639 9.4 225129.8 -1753.6  
 6640 7.9 225205.0 -1709.9  
 6641 9.4 225206.8 -1758.3

6642 9.7 225221.1 -1726.9  
 6643 9.7 225223.0 -1702.5  
 6644 9.9 225239.2 -1745.6  
 6645 9.8 225304.6 -1719.3  
 6646 7.9 225310.0 -1739.6  
 6647 10. 225327.4 -1703.3  
 6648 9.0 225413.7 -1719.0  
 6649 9.8 225455.4 -1747.4  
 6650 9.3 225504.6 -1753.1  
 6651 10. 225557.2 -1711.8

6652 9.3 225601.5 -1721.0  
 6653 9.6 225619.8 -1738.9  
 6654 9.5 225620.5 -1730.8  
 6655 10. 225623.5 -1751.1  
 6656 10. 225637.7 -1700.5  
 6657 9.8 225638.4 -1755.2  
 6658 9.8 225657.2 -1732.8  
 6659 9.1 225714.5 -1759.4  
 6660 9.3 225727.8 -1708.7  
 6661 5.8 225731.7 -1751.2

6662 9.5 225736.5 -1739.1  
 6663 6.9 225740.8 -1740.9  
 6664 9.3 225802.1 -1751.7  
 6665 9.5 225814.9 -1719.5  
 6666 9.7 225821.7 -1751.0  
 6667 9.7 225822.9 -1709.7  
 6668 10. 225823.6 -1726.8  
 6669 9.7 225848.6 -1706.0  
 6670 9.0 225901.4 -1725.5  
 6671 9.8 225911.3 -1737.7

6672 9.9 225912.1 -1721.6  
 6673 9.4 225915.4 -1733.8  
 6674 9.8 225942.6 -1700.6  
 6675 9.9 230001.4 -1725.6  
 6676 10. 230003.6 -1754.6  
 6677 9.9 230018.5 -1721.6  
 6678 9.8 230019.2 -1725.2  
 6679 9.5 230022.3 -1748.9  
 6680 9.0 230029.9 -1707.5  
 6681 8.3 230036.4 -1750.6

6682 7.8 230039.0 -1732.2  
 6683 9.8 230055.0 -1703.6  
 6684 9.1 230059.5 -1710.2  
 6685 9.8 230145.0 -1749.7  
 6686 10. 230145.2 -1747.4  
 6687 10. 230229.0 -1718.0  
 6688 10. 230229.0 -1704.0  
 6689 10. 230254.8 -1759.7  
 6690 9.8 230259.5 -1712.8  
 6691 7.0 230334.1 -1716.9

6692 8.5 230346.1 -1701.8  
 6693 5.3 230352.5 -1705.5  
 6694 8.6 230402.4 -1741.4  
 6695 9.2 230426.1 -1739.9  
 6696 9.4 230440.1 -1727.8  
 6697 9.8 230441.1 -1732.8  
 6698 9.0 230443.3 -1754.0  
 6699 9.6 230509.6 -1728.5  
 6700 9.1 230524.2 -1703.0  
 6701 9.9 230538.8 -1746.3

6702 8.5 230542.5 -1746.4  
 6703 8.8 230602.5 -1742.6  
 6704 9.0 230608.9 -1706.8  
 6705 7.8 230638.9 -1741.6  
 6706 9.8 230644.4 -1751.5  
 6707 9.8 230656.8 -1754.0  
 6708 9.4 230703.2 -1732.3  
 6709 9.8 230705.2 -1706.9  
 6710 7.5 230715.3 -1701.4  
 6711 9.9 230718.9 -1718.3

6712 9.8 230728.7 -1752.3  
 6713 9.0 230739.2 -1727.9  
 6714 9.3 230748.3 -1714.5  
 6715 8.7 230802.3 -1740.1  
 6716 10. 230827.7 -1721.5  
 6717 9.6 230911.0 -1744.2  
 6718 9.5 230925.5 -1759.3  
 6719 8.5 231024.5 -1708.5  
 6720 10. 231026.5 -1748.9  
 6721 9.1 231047.6 -1746.2

6722 9.2 231051.1 -1742.0  
 6723 9.8 231055.4 -1707.2  
 6724 9.8 231109.9 -1703.4  
 6725 9.2 231141.8 -1750.2  
 6726 9.8 231200.9 -1713.2  
 6727 10. 231212.4 -1702.8  
 6728 9.1 231214.0 -1730.4  
 6729 9.7 231214.5 -1739.3  
 6730 9.1 231220.5 -1725.7  
 6731 9.3 231238.3 -1741.7

6732 9.8 231315.9 -1705.1  
 6733 7.2 231352.1 -1728.8  
 6734 8.3 231354.3 -1740.4  
 6735 9.2 231405.6 -1728.0  
 6736 9.0 231416.2 -1706.0  
 6737 9.0 231416.6 -1730.4  
 6738 9.3 231440.4 -1758.7  
 6739 9.0 231441.4 -1753.3  
 6740 9.5 231459.9 -1750.3  
 6741 9.0 231511.9 -1758.4

6742 8.7 231537.1 -1717.9  
 6743 9.1 231546.4 -1718.8  
 6744 10. 231607.6 -1717.8  
 6745 9.8 231613.5 -1720.2  
 6746 9.8 231638.4 -1740.3  
 6747 9.4 231641.6 -1750.6  
 6748 9.5 231731.4 -1741.8  
 6749 9.2 231810.1 -1742.7  
 6750 9.3 231812.3 -1726.1  
 6751 9.2 231850.3 -1736.7

6752 8.8 231859.8 -1704.4  
 6753 9.6 231957.1 -1756.9  
 6754 9.8 232011.9 -1733.9  
 6755 9.7 232024.5 -1749.3  
 6756 9.7 232042.8 -1758.1  
 6757 9.4 232100.3 -1747.5  
 6758 9.1 232132.7 -1714.9  
 6759 8.5 232202.1 -1733.0  
 6760 9.8 232311.8 -1758.2  
 6761 9.4 232315.9 -1723.9

6762 9.5 232348.5 -1740.1  
 6763 9.6 232400.6 -1708.8  
 6764 10. 232407.8 -1749.6  
 6765 9.8 232439.4 -1746.8  
 6766 9.3 232440.9 -1758.8  
 6767 9.8 232508.5 -1723.1  
 6768 9.5 232509.7 -1732.7  
 6769 8.4 232512.2 -1738.3  
 6770 9.5 232523.6 -1730.1  
 6771 9.7 232527.7 -1721.9

6772 10. 232606.1 -1704.3  
 6773 9.4 232608.3 -1725.5  
 6774 8.5 232618.8 -1707.0  
 6775 9.3 232651.9 -1754.7  
 6776 8.0 232702.3 -1747.6  
 6777 9.1 232711.3 -1738.4  
 6778 8.8 232749.3 -1740.3  
 6779 7.3 232754.8 -1722.9  
 6780 8.0 232823.9 -1705.5  
 6781 8.8 232940.4 -1751.6

6782 8.8 232952.7 -1741.7  
 6783 9.5 232953.6 -1738.0  
 6784 9.9 232953.9 -1749.2  
 6785 9.4 233038.9 -1702.2  
 6786 9.4 233041.7 -1701.5  
 6787 9.5 233057.4 -1745.3  
 6788 9.1 233211.7 -1750.9  
 6789 9.1 233219.6 -1711.2  
 6790 10. 233220.4 -1745.7  
 6791 9.5 233225.0 -1706.8

6792 9.4 233248.5 -1742.0  
 6793 9.3 233250.5 -1725.5  
 6794 9.7 233254.6 -1729.4  
 6795 9.5 233302.5 -1719.5  
 6796 9.5 233338.5 -1731.4  
 6797 8.8 233402.6 -1728.9  
 6798 9.5 233404.9 -1723.7  
 6799 9.0 233434.4 -1704.2  
 6800 9.4 233434.7 -1752.0  
 6801 9.4 233444.8 -1752.5

6802 9.2 233459.3 -1757.9  
 6803 9.5 233547.9 -1757.7  
 6804 9.4 233602.2 -1731.4  
 6805 9.4 233612.2 -1725.3  
 6806 9.0 233621.2 -1708.1  
 6807 9.0 233622.7 -1737.4  
 6808 10. 233622.8 -1751.0  
 6809 9.5 233626.7 -1745.2  
 6810 9.0 233738.7 -1718.4  
 6811 9.4 233808.7 -1705.8

6812 9.8 233825.2 -1746.0  
 6813 9.4 233825.7 -1727.8  
 6814 7.8 233834.5 -1756.3  
 6815 9.2 233843.8 -1737.8  
 6816 8.4 233936.4 -1754.3  
 6817 9.8 233939.3 -1736.0  
 6818 9.3 234033.9 -1723.0  
 6819 7.0 234039.9 -1729.9  
 6820 10. 234041.1 -1746.8  
 6821 9.2 234046.9 -1729.5

6822 8.8 234111.2 -1704.5  
 6823 9.1 234123.9 -1718.1  
 6824 9.3 234124.8 -1701.2  
 6825 8.5 234136.8 -1704.0  
 6826 9.7 234157.9 -1702.7  
 6827 9.3 234228.5 -1753.0  
 6828 9.5 234316.5 -1709.0  
 6829 9.8 234330.4 -1701.2  
 6830 9.6 234344.5 -1717.9  
 6831 9.8 234412.5 -1708.9

6832 9.1 234415.9 -1741.2  
 6833 9.6 234426.7 -1755.1  
 6834 8.8 234444.6 -1712.5  
 6835 9.0 234501.6 -1707.3  
 6836 7.3 234512.6 -1710.5  
 6837 8.7 234521.1 -1731.4  
 6838 9.1 234529.1 -1717.3  
 6839 9.6 234536.0 -1704.0  
 6840 9.4 234607.3 -1757.5  
 6841 9.5 234642.6 -1716.2

6842 9.5 234704.0 -1708.7  
 6843 9.4 234715.8 -1743.7  
 6844 9.8 234805.7 -1718.9  
 6845 9.3 234819.3 -1740.6  
 6846 9.5 234829.7 -1709.6  
 6847 9.2 234910.6 -1751.0  
 6848 9.0 234912.6 -1751.8  
 6849 9.1 234918.3 -1712.0  
 6850 9.1 235026.8 -1749.6  
 6851 9.5 235038.7 -1750.6

6852 9.5 235047.8 -1719.6  
 6853 9.5 235106.3 -1757.8  
 6854 9.8 235123.7 -1708.8  
 6855 8.8 235141.2 -1701.5  
 6856 8.3 235151.6 -1744.8  
 6857 9.2 235209.4 -1728.4  
 6858 10. 235213.0 -1723.3  
 6859 10. 235244.9 -1723.7  
 6860 7.3 235258.3 -1729.9  
 6861 8.9 235336.1 -1737.9

6862 9.6 235357.2 -1745.0  
 6863 10. 235400.6 -1732.1  
 6864 7.5 235417.5 -1719.8  
 6865 9.9 235430.5 -1712.2  
 6866 9.6 235531.5 -1708.4  
 6867 9.2 235644.5 -1755.3  
 6868 6.2 235653.7 -1719.7  
 6869 9.1 235718.9 -1745.8  
 6870 8.0 235727.9 -1739.8  
 6871 9.5 235813.2 -1758.6

6872 9.6 235814.3 -1703.0  
 6873 9.6 235825.1 -1758.0  
 6874 8.8 235857.8 -1714.0  
 6875 8.6 235901.9 -1752.7  
 6876 9.7 235918.2 -1702.1  
 6877 9.7 235922.4 -1741.5  
 6878 9.5 235942.8 -1722.7  
 1 9.6 00049.6 -1858.5  
 2 9.5 00107.3 -1815.7  
 3 6.2 00108.4 -1823.1

4 9.8 00115.1 -1816.6  
 5 10. 00125.9 -1850.9  
 6 9.0 00207.0 -1805.9  
 7 9.1 00234.3 -1803.4  
 8 9.4 00315.0 -1831.5  
 9 9.5 00352.4 -1848.2  
 10 9.5 00406.7 -1815.8  
 11 8.7 00412.6 -1846.4  
 12 8.7 00424.0 -1821.8  
 13 9.8 00441.9 -1803.3

14 5.7 00446.1 -1844.2  
 15 9.6 00455.4 -1854.0  
 16 10. 00458.0 -1805.3  
 17 9.7 00511.7 -1853.6  
 18 8.9 00534.2 -1853.7  
 19 9.7 00538.3 -1816.2  
 20 9.5 00538.3 -1800.5  
 21 9.5 00547.1 -1816.4  
 22 9.4 00550.1 -1847.3  
 23 9.8 00551.4 -1806.6

24 9.5 00626.4 -1843.4  
 25 7.2 00632.7 -1821.1  
 26 9.5 00658.4 -1834.3  
 27 9.1 00705.0 -1803.5  
 28 10. 00725.4 -1814.6  
 29 9.3 00726.5 -1829.7  
 30 9.2 00743.3 -1804.0  
 31 9.0 00808.6 -1843.3  
 32 9.4 00825.2 -1844.2  
 33 9.8 00831.5 -1817.0

34 8.3 00911.7 -1841.9  
 35 9.8 00928.8 -1809.9  
 36 9.1 00945.0 -1834.8  
 37 9.2 00954.0 -1828.6  
 38 8.6 01030.9 -1822.0  
 39 7.8 01207.1 -1829.1  
 40 9.0 01240.9 -1816.7  
 41 6.7 01240.2 -1830.4  
 42 9.8 01305.3 -1827.0  
 43 9.7 01402.4 -1818.1

44 9.0 01453.0 -1837.2  
 45 10. 01506.0 -1818.1  
 46 9.4 01551.5 -1802.7  
 47 9.4 01616.2 -1857.3  
 48 9.5 01618.0 -1827.4  
 49 7.8 01638.6 -1836.7  
 50 9.4 01709.1 -1817.7  
 51 6.8 01803.0 -1813.3  
 52 8.9 01821.2 -1822.0  
 53 9.3 01822.4 -1837.1

C-4



54 9.2 01836.7 -1819.2  
 55 10. 01855.6 -1813.5  
 56 9.2 01910.8 -1848.8  
 57 9.8 01955.7 -1838.8  
 58 10. 01955.6 -1837.2  
 59 8.9 02004.2 -1839.1  
 60 9.2 02009.8 -1842.2  
 61 9.9 02012.8 -1812.1  
 62 8.9 02026.2 -1808.1  
 63 9.8 02109.4 -1858.7

64 9.0 02118.2 -1801.6  
 65 9.9 02120.4 -1856.2  
 66 9.1 02131.3 -1823.2  
 67 8.7 02145.7 -1801.2  
 68 9.0 02153.8 -1837.7  
 69 9.4 02201.9 -1818.8  
 70 8.8 02227.7 -1800.4  
 71 9.1 02308.4 -1836.8  
 72 9.5 02315.5 -1850.5  
 73 9.5 02320.5 -1854.0

74 9.6 02326.9 -1830.5  
 75 9.4 02333.4 -1814.6  
 76 9.5 02339.3 -1813.2  
 77 9.4 02344.4 -1802.3  
 78 9.5 02445.5 -1841.4  
 79 10. 02509.0 -1838.2  
 80 8.3 02517.1 -1854.0  
 81 9.1 02523.7 -1807.8  
 82 8.7 02537.2 -1829.8  
 83 9.0 02545.1 -1854.7

84 9.0 02557.1 -1848.7  
 85 9.6 02617.1 -1806.7  
 86 9.9 02620.6 -1804.1  
 87 8.7 02623.6 -1854.5  
 88 9.5 02637.7 -1812.8  
 89 9.3 02640.3 -1830.3  
 90 10. 02652.5 -1834.8  
 91 10. 02653.3 -1830.1  
 92 9.3 02708.2 -1813.2  
 93 10. 02713.2 -1807.8

94 9.2 02714.0 -1817.7  
 95 9.5 02817.0 -1834.3  
 96 9.7 02834.0 -1827.1  
 97 9.8 02849.8 -1800.2  
 98 8.5 02900.3 -1824.6  
 99 8.3 02927.4 -1835.5  
 100 10. 02935.1 -1848.2  
 101 9.9 03004.8 -1851.5  
 102 9.2 03021.5 -1834.3  
 103 9.9 03230.9 -1839.0

104 9.1 03242.9 -1827.7  
 105 8.8 03255.6 -1823.1  
 106 8.5 03221.9 -1841.0  
 107 8.2 03330.3 -1828.9  
 108 8.6 03339.0 -1806.1  
 109 9.5 03403.0 -1857.0  
 110 9.8 03417.9 -1836.5  
 111 9.2 03424.6 -1800.1  
 112 8.7 03451.8 -1831.9  
 113 9.1 03519.3 -1805.7

114 9.5 02544.5 -1808.3  
 115 2.0 03418.1 -1847.0  
 116 9.7 03521.6 -1821.0  
 117 10. 03643.1 -1823.3  
 118 9.4 03714.3 -1802.7  
 119 9.1 03735.2 -1815.0  
 120 8.7 03742.1 -1801.6  
 121 10. 03742.3 -1817.5  
 122 9.0 03825.2 -1841.4  
 123 9.3 03841.6 -1817.6

124 8.7 03908.2 -1800.3  
 125 9.5 03916.7 -1854.5  
 126 9.0 03925.8 -1859.2  
 127 6.5 04029.3 -1851.1  
 128 9.2 04038.2 -1833.7  
 129 9.7 04110.5 -1843.3  
 130 7.3 04130.2 -1820.4  
 131 10. 04134.7 -1844.3  
 132 10. 04207.7 -1834.3  
 133 9.6 04230.3 -1851.0

134 10. 04338.8 -1832.8  
 135 9.6 04343.1 -1834.5  
 136 10. 04355.9 -1839.0  
 137 10. 04441.0 -1848.2  
 138 9.1 04447.5 -1832.9  
 139 9.2 04524.8 -1817.1  
 140 9.4 04530.2 -1820.1  
 141 10. 04533.2 -1832.1  
 142 10. 04536.0 -1822.5  
 143 7.1 04555.5 -1826.5

144 9.8 04557.1 -1859.0  
 145 9.0 04622.5 -1838.6  
 146 8.9 04646.6 -1847.2  
 147 8.9 04655.6 -1849.0  
 148 9.3 04706.0 -1839.6  
 149 9.4 04734.0 -1835.5  
 150 8.4 04753.7 -1813.2  
 151 9.6 04819.3 -1816.7  
 152 8.2 04838.1 -1805.4  
 153 9.1 04840.8 -1818.3

154 9.3 04950.7 -1844.8  
 155 10. 05025.9 -1817.4  
 156 10. 05043.8 -1847.6  
 157 10. 05045.8 -1822.8  
 158 10. 05121.1 -1838.2  
 159 9.0 05130.8 -1847.0  
 160 8.6 05139.2 -1816.4  
 161 9.5 05212.4 -1804.0  
 162 8.3 05246.9 -1851.1  
 163 7.7 05328.5 -1854.0

164 9.8 05350.4 -1804.6  
 165 9.8 05433.4 -1829.3  
 166 10. 05526.0 -1808.4  
 167 9.4 05533.0 -1824.4  
 168 9.9 05539.1 -1813.2  
 169 9.8 05553.5 -1844.0  
 170 10. 05611.4 -1815.1  
 171 9.6 05633.7 -1821.8  
 172 9.4 05711.1 -1846.2  
 173 9.3 05713.7 -1825.6

174 9.1 05729.1 -1843.5  
 175 8.3 05740.2 -1814.7  
 176 9.5 05742.4 -1834.7  
 177 9.4 05748.1 -1836.2  
 178 10. 05838.0 -1824.9  
 179 9.5 05844.3 -1857.9  
 180 9.5 05850.5 -1829.4  
 181 9.8 05920.6 -1832.9  
 182 9.8 10030.2 -1838.7  
 183 9.0 10047.7 -1825.4

184 9.6 10111.2 -1831.3  
 185 9.5 10209.8 -1852.5  
 186 9.1 10241.0 -1819.7  
 187 9.0 10242.1 -1816.1  
 188 9.6 10259.3 -1836.4  
 189 9.4 10355.2 -1810.2  
 190 9.1 10410.9 -1839.1  
 191 10. 10420.8 -1831.5  
 192 8.6 10438.0 -1818.4  
 193 9.8 10440.2 -1801.6

194 8.7 10451.9 -1825.2  
 195 9.9 10545.2 -1825.1  
 196 10. 10554.1 -1859.0  
 197 9.8 10717.7 -1824.8  
 198 9.4 10728.2 -1836.0  
 199 8.0 10740.0 -1800.4  
 200 7.5 10754.7 -1856.9  
 201 9.8 10759.7 -1855.1  
 202 9.5 10816.8 -1822.5  
 203 9.0 10817.6 -1842.5

204 8.2 10839.7 -1808.9  
 205 8.3 10938.2 -1855.5  
 206 9.3 11001.5 -1843.6  
 207 8.3 11023.4 -1818.0  
 208 9.3 11027.8 -1819.5  
 209 9.8 11042.5 -1817.5  
 210 9.8 11054.5 -1835.6  
 211 9.4 11131.4 -1810.7  
 212 9.5 11143.6 -1814.1  
 213 9.8 11222.8 -1854.8

214 9.8 11236.5 -1844.9  
 215 10. 11311.7 -1821.3  
 216 9.3 11432.2 -1838.6  
 217 9.2 11509.8 -1823.4  
 218 9.4 11535.9 -1846.5  
 219 9.9 11548.2 -1800.4  
 220 9.9 11551.3 -1817.2  
 221 9.7 11615.8 -1838.7  
 222 7.0 11617.4 -1841.8  
 223 9.4 11659.3 -1813.8

224 9.9 11727.9 -1817.5  
 225 9.2 11733.1 -1858.5  
 226 10. 11745.5 -1825.2  
 227 9.5 11755.1 -1801.7  
 228 9.4 11801.3 -1835.2  
 229 8.7 11859.2 -1803.7  
 230 9.5 11912.6 -1844.6  
 231 10. 11919.0 -1822.9  
 232 9.3 11926.5 -1812.0  
 233 9.5 11937.2 -1859.3

234 6.8 12101.5 -1800.5  
 235 8.3 12109.2 -1848.3  
 236 9.8 12117.2 -1849.2  
 237 10. 12133.8 -1856.8  
 238 9.3 12145.4 -1808.3  
 239 10. 12145.6 -1839.7  
 240 6.3 12154.0 -1840.6  
 241 9.4 12210.5 -1807.7  
 242 9.0 12219.6 -1802.4  
 243 9.0 12324.7 -1818.8

244 9.5 12333.2 -1821.6  
 245 9.1 12337.6 -1829.8  
 246 8.8 12352.5 -1815.5  
 247 9.1 12358.1 -1817.7  
 248 8.3 12414.9 -1826.0  
 249 9.3 12438.4 -1849.2  
 250 8.7 12453.5 -1827.0  
 251 8.3 12508.4 -1817.0  
 252 10. 12527.4 -1847.6  
 253 9.2 12546.5 -1858.5

254 8.7 12551.0 -1821.5  
 255 9.2 12615.0 -1857.2  
 256 9.0 12708.2 -1807.8  
 257 9.3 12724.6 -1828.7  
 258 10. 12740.5 -1843.3  
 259 9.9 12743.7 -1812.6  
 260 10. 12818.2 -1837.4  
 261 9.4 12818.4 -1804.6  
 262 9.8 12825.9 -1801.1  
 263 9.0 12826.7 -1808.4

264 10. 12832.8 -1813.5  
 265 8.2 12841.6 -1802.5  
 266 6.8 12849.6 -1816.1  
 267 9.0 12857.6 -1849.4  
 268 9.0 12952.6 -1801.1  
 269 9.7 13002.3 -1831.5  
 270 9.5 13009.4 -1817.6  
 271 9.1 13018.3 -1813.4  
 272 9.8 13018.9 -1855.9  
 273 9.0 13027.3 -1838.2

274 9.0 13126.7 -1800.6  
 275 9.1 13130.0 -1846.8  
 276 9.8 13130.8 -1823.1  
 277 9.5 13139.8 -1823.1  
 278 9.0 13212.8 -1820.0  
 279 7.3 13220.4 -1831.6  
 280 7.8 13245.6 -1817.4  
 281 9.6 13327.3 -1825.1  
 282 9.3 13328.5 -1801.8  
 283 9.3 13431.9 -1835.3

284 8.6 13432.8 -1843.3  
 285 9.8 13450.7 -1818.8  
 286 8.5 13509.1 -1851.8  
 287 7.2 13511.0 -1837.7  
 288 9.0 13535.8 -1832.1  
 289 10. 13544.6 -1809.5  
 290 9.6 13605.2 -1847.9  
 291 9.0 13618.7 -1820.5  
 292 9.3 13620.3 -1820.3  
 293 9.5 13641.2 -1849.5

294 10. 13653.1 -1852.4  
 295 9.8 13657.1 -1830.5  
 296 9.4 13704.9 -1842.1  
 297 9.5 13723.7 -1938.3  
 298 9.6 13728.5 -1802.2  
 299 9.8 13751.6 -1908.6  
 300 9.6 13814.2 -1846.1  
 301 9.5 13820.1 -1824.6  
 302 10. 13900.8 -1824.0  
 303 9.1 13912.3 -1810.8

304 10. 13950.1 -1846.1  
 305 9.4 14014.9 -1823.1  
 306 6.9 14016.7 -1812.4  
 307 8.8 14053.1 -1853.2  
 308 10. 14148.9 -1851.2  
 309 8.7 14204.2 -1829.3  
 310 8.4 14211.4 -1843.5  
 311 9.5 14219.3 -1810.9  
 312 9.6 14236.4 -1838.6  
 313 8.8 14304.5 -1813.1

314 10. 14327.9 -1816.4  
 315 9.9 14336.8 -1832.9  
 316 9.2 14337.1 -1822.1  
 317 9.0 14348.4 -1803.8  
 318 9.8 14410.5 -1811.9  
 319 9.5 14446.8 -1801.8  
 320 9.6 14558.6 -1847.8  
 321 9.4 14603.3 -1824.2  
 322 8.3 14610.9 -1806.6  
 323 9.2 14622.6 -1849.5

324 9.5 14656.1 -1841.1  
 325 9.8 14656.2 -1834.1  
 326 9.4 14700.0 -1855.2  
 327 9.0 14706.9 -1847.8  
 328 9.4 14750.2 -1852.2  
 329 9.8 14904.2 -1814.2  
 330 9.7 14904.7 -1843.1  
 331 9.8 14909.3 -1802.5  
 332 9.0 14920.5 -1819.2  
 333 8.5 14951.8 -1843.0

334 9.1 14952.8 -1840.7  
 335 9.6 14959.6 -1836.9  
 336 7.5 15020.1 -1823.0  
 337 9.5 15027.3 -1842.7  
 338 8.5 15041.2 -1825.8  
 339 9.8 15054.5 -1857.1  
 340 9.7 15108.8 -1859.8  
 341 9.8 15118.3 -1849.2  
 342 9.1 15124.6 -1816.1  
 343 9.5 15139.9 -1843.0

344 10. 15145.4 -1807.8  
 345 8.0 15208.9 -1845.9  
 346 9.5 15221.0 -1811.3  
 347 9.4 15242.5 -1808.9  
 348 9.4 15244.1 -1817.4  
 349 9.2 15216.9 -1855.0  
 350 8.5 15409.0 -1850.3  
 351 9.8 15428.4 -1841.3  
 352 9.6 15533.1 -1852.5  
 353 9.4 15619.6 -1809.1

354 10. 15622.2 -1840.8  
 355 8.9 15625.2 -1828.0  
 356 6.8 15659.2 -1812.7  
 357 8.4 15743.1 -1842.6  
 358 9.4 15747.2 -1857.5  
 359 9.4 15800.2 -1818.5  
 360 9.4 15818.6 -1839.0  
 361 9.1 15829.7 -1807.9  
 362 8.7 15858.2 -1800.6  
 363 9.5 15914.8 -1813.3

364 8.7 15934.1 -1813.8  
 365 9.5 15946.9 -1811.9  
 366 9.5 15953.9 -1832.8  
 367 9.5 15957.4 -1834.3  
 368 9.7 20000.6 -1835.2  
 369 8.7 20026.0 -1819.5  
 370 9.0 20054.8 -1854.3  
 371 8.8 20135.4 -1810.7  
 372 8.2 20151.1 -1805.3  
 373 9.0 20151.5 -1814.4

374 5.7 20152.9 -1827.7  
 375 8.7 20200.5 -1832.4  
 376 9.5 20202.9 -1808.3  
 377 10. 20236.4 -1859.7  
 378 9.6 20248.3 -1847.6  
 379 9.5 20401.9 -1856.5  
 380 9.4 20405.0 -1810.7  
 381 6.7 20440.2 -1825.7  
 382 7.7 20511.2 -1824.9  
 383 9.4 20524.2 -1822.4

384 9.0 20541.7 -1817.0  
 385 8.0 20700.5 -1838.5  
 386 10. 20714.6 -1852.1  
 387 9.0 20736.6 -1807.3  
 388 8.7 20738.3 -1828.0  
 389 9.8 20800.6 -1849.5  
 390 9.8 20814.2 -1808.0  
 391 10. 20824.8 -1825.8  
 392 9.7 20837.7 -1847.7  
 393 8.9 20845.1 -1839.9

394 7.5 20856.2 -1854.5  
 395 9.8 20902.4 -1823.0  
 396 9.9 20914.3 -1813.3  
 397 9.4 20920.7 -1813.1  
 398 10. 20937.4 -1826.9  
 399 9.4 21101.6 -1833.0  
 400 9.1 21131.3 -1857.0  
 401 8.7 21137.8 -1852.5  
 402 9.2 21139.9 -1834.8  
 403 9.5 21156.7 -1829.4

404 9.5 21159.3 -1808.1  
 405 9.0 21232.2 -1844.5  
 406 8.5 21309.2 -1840.4  
 407 9.6 21347.1 -1847.9  
 408 9.8 21410.9 -1815.2  
 409 6.0 21514.1 -1819.2  
 410 9.8 21522.5 -1814.1  
 411 9.6 21529.2 -1825.9  
 412 9.2 21540.0 -1830.2  
 413 10. 21618.4 -1805.9



414 9.0 21630.8 -1833.0  
 415 9.2 21733.4 -1828.9  
 416 9.0 21734.5 -1806.3  
 417 8.1 21735.7 -1848.9  
 418 8.9 21736.9 -1837.0  
 419 9.5 21803.5 -1855.3  
 420 9.8 21817.1 -1821.7  
 421 9.6 21828.7 -1817.2  
 422 9.8 21846.3 -1832.7  
 423 9.8 21847.9 -1859.1

424 9.6 21904.5 -1826.8  
 425 9.3 21925.6 -1849.0  
 426 10. 21940.7 -1808.7  
 427 9.5 22013.1 -1855.9  
 428 9.4 22042.6 -1850.1  
 429 9.9 22136.4 -1825.5  
 430 9.5 22258.2 -1837.7  
 431 9.3 22300.4 -1821.3  
 432 9.3 22307.3 -1858.3  
 433 9.0 22442.7 -1838.0

434 9.5 22457.1 -1822.2  
 435 9.8 22515.8 -1844.0  
 436 9.7 22518.7 -1836.0  
 437 9.8 22534.3 -1834.1  
 438 9.0 22548.8 -1841.2  
 439 9.8 22604.4 -1843.0  
 440 10. 22615.3 -1801.6  
 441 9.6 22624.1 -1829.9  
 442 8.6 22639.7 -1814.1  
 443 9.0 22640.3 -1858.9

444 9.5 22641.7 -1810.9  
 445 10. 22704.2 -1807.0  
 446 9.3 22759.4 -1834.7  
 447 7.0 22909.6 -1816.1  
 448 8.6 23003.4 -1801.4  
 449 9.8 23110.1 -1829.3  
 450 9.0 23119.2 -1809.8  
 451 9.0 23210.6 -1849.4  
 452 10. 23309.4 -1820.7  
 453 10. 23319.5 -1822.6

454 9.1 23319.5 -1830.6  
 455 9.8 23420.3 -1808.1  
 456 8.7 23425.7 -1840.4  
 457 7.8 23426.4 -1826.4  
 458 9.0 23450.1 -1833.7  
 459 9.5 23531.0 -1807.9  
 460 8.9 23553.2 -1824.2  
 461 8.5 23628.9 -1858.8  
 462 9.2 23654.8 -1806.4  
 463 9.8 23711.8 -1801.2

464 9.0 23713.0 -1858.6  
 465 8.6 23813.1 -1823.7  
 466 8.1 23817.1 -1812.0  
 467 9.5 23823.6 -1844.3  
 468 9.6 23840.1 -1831.5  
 469 9.3 23900.4 -1839.2  
 470 9.9 23906.5 -1853.9  
 471 10. 23918.5 -1850.4  
 472 8.5 23948.7 -1839.2  
 473 9.3 24023.4 -1814.5

474 9.0 24040.6 -1809.6  
 475 9.8 24050.3 -1857.5  
 476 8.8 24054.9 -1855.5  
 477 9.0 24107.3 -1853.0  
 478 9.0 24116.4 -1857.1  
 479 9.1 24133.0 -1809.5  
 480 9.5 24144.5 -1810.6  
 481 9.4 24145.6 -1835.2  
 482 9.2 24315.1 -1830.4  
 483 9.8 24320.2 -1821.6

484 9.1 24338.0 -1809.5  
 485 9.5 24441.9 -1844.5  
 486 8.0 24517.3 -1857.2  
 487 9.1 24539.1 -1807.5  
 488 8.5 24541.3 -1836.8  
 489 9.8 24623.0 -1853.4  
 490 9.4 24642.8 -1803.0  
 491 9.8 24713.8 -1819.0  
 492 9.9 24748.6 -1825.6  
 493 10. 24815.4 -1819.5

494 9.5 24821.0 -1814.6  
 495 9.5 24822.7 -1858.4  
 496 9.4 24839.1 -1848.3  
 497 9.8 24857.1 -1848.3  
 498 9.9 24911.0 -1837.1  
 499 10. 25005.2 -1837.4  
 500 9.5 25057.5 -1855.2  
 501 9.6 25127.2 -1842.3  
 502 9.1 25129.2 -1847.1  
 503 9.0 25130.9 -1814.0

504 9.8 25202.5 -1850.7  
 505 9.3 25223.8 -1808.2  
 506 9.5 25227.9 -1845.1  
 507 10. 25229.0 -1814.5  
 508 9.0 25244.8 -1843.1  
 509 9.3 25249.4 -1803.0  
 510 9.4 25309.0 -1804.4  
 511 9.5 25410.7 -1800.3  
 512 7.8 25425.4 -1826.6  
 513 9.2 25430.5 -1828.2

514 9.0 25448.0 -1817.8  
 515 9.4 25459.3 -1847.8  
 516 7.0 25522.4 -1846.9  
 517 8.2 25531.8 -1803.0  
 518 9.7 25543.0 -1839.1  
 519 9.8 25543.2 -1858.8  
 520 9.0 25543.9 -1842.7  
 521 9.8 25545.5 -1801.8  
 522 9.7 25545.7 -1814.8  
 523 8.5 25622.7 -1848.4

524 8.7 25629.3 -1838.8  
 525 9.4 25648.9 -1843.5  
 526 9.4 25659.4 -1857.1  
 527 7.8 25718.1 -1818.3  
 528 9.4 25746.5 -1846.3  
 529 9.9 25748.7 -1834.7  
 530 9.1 25809.5 -1807.7  
 531 9.1 25820.0 -1856.1  
 532 9.4 25902.9 -1803.9  
 533 9.0 25912.3 -1822.5

534 10. 25921.8 -1827.5  
 535 9.7 25941.9 -1832.1  
 536 8.2 25957.2 -1802.2  
 537 9.5 30012.1 -1811.8  
 538 9.8 30018.6 -1808.6  
 539 9.8 30039.7 -1828.4  
 540 8.5 30053.5 -1834.7  
 541 9.2 30055.5 -1848.4  
 542 9.8 30101.1 -1854.0  
 543 9.8 30133.0 -1841.6

544 9.3 30204.2 -1842.2  
 545 8.5 30256.1 -1837.2  
 546 9.5 30301.5 -1832.4  
 547 9.4 30316.6 -1819.5  
 548 8.7 30318.1 -1821.9  
 549 8.6 30414.2 -1852.1  
 550 10. 30429.2 -1827.5  
 551 9.9 30435.3 -1855.9  
 552 9.3 30500.0 -1825.9  
 553 9.0 30505.5 -1816.0

554 9.4 30534.0 -1824.2  
 555 8.8 30602.3 -1845.5  
 556 8.3 30617.8 -1859.2  
 557 9.5 30621.7 -1835.3  
 558 9.2 30623.5 -1845.1  
 559 9.7 30624.3 -1836.4  
 560 8.0 30629.5 -1810.6  
 561 9.0 30648.2 -1809.8  
 562 9.5 30706.4 -1801.5  
 563 8.3 30726.1 -1825.0

564 9.8 30751.7 -1827.3  
 565 9.7 30752.6 -1846.7  
 566 10. 30806.4 -1856.9  
 567 9.0 30840.4 -1829.3  
 568 9.4 30844.8 -1830.0  
 569 7.0 30851.9 -1842.9  
 570 9.5 30854.4 -1804.5  
 571 8.0 30911.9 -1854.0  
 572 9.0 30921.6 -1846.8  
 573 9.8 30928.8 -1826.2

574 9.1 30956.9 -1843.4  
 575 8.5 31047.0 -1855.7  
 576 9.0 31049.0 -1848.3  
 577 8.3 31057.2 -1811.1  
 578 9.6 31111.9 -1834.2  
 579 9.6 31115.5 -1847.9  
 580 9.6 31119.5 -1800.0  
 581 9.1 31125.0 -1802.0  
 582 9.2 31127.6 -1809.5  
 583 9.3 31139.1 -1809.1

584 9.6 31154.9 -1826.4  
 585 9.5 31207.0 -1858.2  
 586 9.8 31211.2 -1829.4  
 587 10. 31258.5 -1836.2  
 588 9.7 31313.8 -1823.0  
 589 8.8 31316.7 -1805.3  
 590 9.8 31322.0 -1823.0  
 591 8.8 31333.5 -1831.6  
 592 9.7 31358.7 -1806.8  
 593 8.0 31404.1 -1802.8

594 10. 31426.0 -1848.2  
 595 9.6 31443.8 -1834.9  
 596 9.5 31606.3 -1811.5  
 597 9.4 31615.5 -1848.0  
 598 9.8 31619.2 -1804.5  
 599 9.8 31649.2 -1827.7  
 600 9.4 31709.9 -1836.3  
 601 8.3 31746.7 -1859.1  
 602 9.1 31748.8 -1810.1  
 603 9.8 31801.0 -1841.5

604 9.5 31812.7 -1833.5  
 605 8.3 31856.7 -1812.5  
 606 9.7 31905.6 -1827.7  
 607 10. 31921.8 -1825.5  
 608 8.0 31929.8 -1857.0  
 609 9.4 31931.7 -1849.6  
 610 8.5 32001.1 -1844.0  
 611 9.8 32126.8 -1842.0  
 612 8.1 32206.0 -1853.1  
 613 9.0 32206.1 -1844.0

614 9.5 32224.4 -1807.2  
 615 9.4 32226.5 -1826.1  
 616 9.5 32227.5 -1810.5  
 617 9.4 32229.7 -1822.4  
 618 9.0 32246.2 -1824.1  
 619 10. 32345.9 -1802.7  
 620 9.7 32355.1 -1808.0  
 621 9.1 32356.0 -1822.4  
 622 7.5 32415.4 -1857.6  
 623 8.5 32432.6 -1836.6

624 9.8 32442.5 -1802.5  
 625 8.4 32514.1 -1858.5  
 626 10. 32615.0 -1807.1  
 627 8.3 32631.1 -1853.9  
 628 9.8 32646.3 -1804.6  
 629 9.5 32655.7 -1838.0  
 630 9.7 32721.0 -1804.9  
 631 9.8 32811.5 -1858.7  
 632 9.1 32836.3 -1828.3  
 633 9.8 32901.5 -1858.6

634 9.4 32937.1 -1840.4  
 635 9.3 32948.6 -1800.8  
 636 9.1 32948.8 -1859.2  
 637 9.1 33020.0 -1821.6  
 638 9.4 33020.9 -1827.5  
 639 8.2 33034.5 -1821.9  
 640 9.9 33048.9 -1841.5  
 641 9.9 33049.5 -1836.9  
 642 9.0 33122.4 -1808.1  
 643 10. 33129.3 -1853.0

644 9.2 33201.5 -1824.8  
 645 9.6 33220.5 -1824.2  
 646 9.9 33245.7 -1827.8  
 647 9.2 33423.3 -1851.7  
 648 9.7 33424.1 -1834.2  
 649 9.4 33431.1 -1824.1  
 650 8.6 33436.2 -1821.6  
 651 9.1 33500.7 -1854.0  
 652 10. 33512.7 -1859.5  
 653 9.3 33519.5 -1811.1

654 9.6 33527.5 -1912.7  
 655 9.8 33531.4 -1828.3  
 656 9.2 33534.8 -1858.0  
 657 9.8 33628.9 -1801.0  
 658 8.8 33651.7 -1848.1  
 659 9.3 33659.5 -1811.3  
 660 9.4 33709.6 -1828.1  
 661 9.0 33631.1 -1844.9  
 662 9.4 33818.6 -1826.6  
 663 8.6 33830.0 -1831.3

664 9.3 33838.3 -1821.9  
 665 9.4 33944.2 -1820.6  
 666 9.6 34020.6 -1827.7  
 667 9.1 34048.8 -1827.0  
 668 9.4 34100.6 -1827.0  
 669 9.5 34143.4 -1805.3  
 670 9.3 34143.5 -1846.0  
 671 9.7 34207.4 -1839.5  
 672 9.5 34208.5 -1812.3  
 673 8.2 34240.0 -1824.8

674 9.5 34251.1 -1829.8  
 675 8.8 34251.3 -1823.1  
 676 8.3 34259.2 -1844.3  
 677 9.3 34410.5 -1859.4  
 678 9.1 34416.4 -1850.7  
 679 9.7 34431.9 -1834.8  
 680 10. 34455.1 -1801.9  
 681 9.5 34457.2 -1828.1  
 682 9.7 34504.2 -1804.4  
 683 8.8 34516.6 -1815.1

684 9.4 34538.6 -1844.3  
 685 9.1 34546.0 -1858.8  
 686 9.8 34548.3 -1810.6  
 687 9.8 34556.1 -1825.8  
 688 9.8 34609.9 -1844.5  
 689 8.8 34621.3 -1837.6  
 690 7.7 34627.5 -1853.7  
 691 6.0 34642.8 -1852.1  
 692 9.3 34646.9 -1833.2  
 693 9.8 34655.2 -1801.6

694 9.7 34706.0 -1855.3  
 695 9.0 34747.9 -1840.4  
 696 8.4 34757.2 -1829.9  
 697 9.4 34846.2 -1854.7  
 698 9.2 34846.2 -1846.4  
 699 9.2 34846.6 -1823.2  
 700 9.6 34904.1 -1829.0  
 701 8.0 34910.8 -1807.5  
 702 9.6 34940.1 -1823.6  
 703 9.1 35019.9 -1809.7

704 9.4 35030.9 -1801.0  
 705 8.0 35033.6 -1858.3  
 706 9.5 35053.0 -1851.2  
 707 9.8 35102.6 -1853.7  
 708 9.0 35116.0 -1837.0  
 709 9.8 35128.7 -1823.0  
 710 8.8 35134.7 -1835.8  
 711 9.5 35149.0 -1813.8  
 712 9.3 35151.4 -1804.9  
 713 9.3 35159.6 -1821.5

714 9.3 35244.1 -1846.1  
 715 9.1 35246.6 -1847.0  
 716 9.6 35308.8 -1807.6  
 717 7.5 35315.2 -1819.4  
 718 9.2 35400.7 -1832.2  
 719 9.8 35416.1 -1835.1  
 720 9.1 35419.7 -1852.9  
 721 9.8 35421.0 -1802.7  
 722 9.4 35439.4 -1839.9  
 723 9.4 35456.0 -1825.2

724 10. 35458.2 -1853.2  
 725 9.3 35459.0 -1825.5  
 726 9.0 35507.3 -1855.9  
 727 8.6 35516.1 -1832.7  
 728 7.3 35520.7 -1846.5  
 729 9.4 35527.6 -1829.8  
 730 9.4 35548.2 -1843.4  
 731 9.5 35550.4 -1854.8  
 732 9.2 35558.7 -1806.4  
 733 10. 35609.1 -1808.7

734 10. 35635.3 -1849.8  
 735 9.4 35637.7 -1843.0  
 736 9.8 35656.4 -1810.2  
 737 8.9 35714.7 -1842.2  
 738 8.7 35724.9 -1832.6  
 739 9.1 35742.5 -1833.8  
 740 9.1 35757.2 -1842.4  
 741 10. 35808.9 -1854.8  
 742 8.8 35821.9 -1821.0  
 743 9.8 35902.8 -1844.1

744 9.6 35911.3 -1816.2  
 745 9.3 35914.6 -1859.4  
 746 9.3 35919.2 -1838.0  
 747 9.5 35935.6 -1834.8  
 748 9.1 35936.5 -1813.5  
 749 9.7 35940.8 -1813.7  
 750 9.5 35942.6 -1820.1  
 751 9.5 40001.1 -1836.0  
 752 6.4 40007.3 -1826.6  
 753 9.7 40024.8 -1844.8

754 8.3 40026.4 -1821.3  
 755 9.8 40037.9 -1859.3  
 756 9.2 40040.1 -1830.2  
 757 9.7 40103.1 -1827.5  
 758 9.4 40124.7 -1814.1  
 759 9.2 40141.0 -1802.1  
 760 9.7 40154.3 -1818.3  
 761 9.0 40210.9 -1852.0  
 762 9.0 40212.1 -1808.0  
 763 8.0 40219.8 -1819.7

764 9.5 40300.6 -1806.6  
 765 9.9 40301.2 -1802.8  
 766 9.3 40327.2 -1823.6  
 767 9.0 40412.7 -1809.1  
 768 9.5 40418.2 -1813.4  
 769 8.0 40437.4 -1848.2  
 770 9.0 40457.1 -1854.0  
 771 9.5 40506.0 -1829.1  
 772 8.3 40530.5 -1814.8  
 773 8.8 40533.1 -1826.6



|     |     |         |         |     |     |         |         |      |     |         |         |      |     |         |         |
|-----|-----|---------|---------|-----|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 774 | 8.9 | 40550.9 | -1842.0 | 864 | 9.0 | 42606.8 | -1826.1 | 954  | 9.6 | 44854.3 | -1821.3 | 1044 | 8.9 | 51115.7 | -1801.2 |
| 775 | 9.2 | 40558.3 | -1827.9 | 865 | 9.5 | 42648.3 | -1817.5 | 955  | 9.0 | 44908.9 | -1848.4 | 1045 | 8.0 | 51116.4 | -1849.4 |
| 776 | 9.8 | 40559.2 | -1819.0 | 866 | 9.2 | 42659.5 | -1848.6 | 956  | 9.8 | 44918.3 | -1823.6 | 1046 | 8.8 | 51118.6 | -1817.5 |
| 777 | 9.5 | 40625.8 | -1836.4 | 867 | 9.7 | 42706.6 | -1853.3 | 957  | 9.8 | 44924.1 | -1814.6 | 1047 | 8.9 | 51137.8 | -1830.0 |
| 778 | 9.6 | 40644.3 | -1808.7 | 868 | 9.5 | 42721.9 | -1845.9 | 958  | 9.8 | 45008.3 | -1800.3 | 1048 | 8.0 | 51139.5 | -1846.3 |
| 779 | 9.8 | 40650.4 | -1820.3 | 869 | 7.7 | 42727.8 | -1829.5 | 959  | 7.5 | 45037.3 | -1820.4 | 1049 | 9.9 | 51152.4 | -1805.8 |
| 780 | 9.6 | 40701.3 | -1859.4 | 870 | 9.0 | 42729.7 | -1858.2 | 960  | 8.3 | 45038.0 | -1837.8 | 1050 | 8.8 | 51200.3 | -1853.9 |
| 781 | 10. | 40712.0 | -1848.0 | 871 | 10. | 42810.6 | -1859.2 | 961  | 8.7 | 45047.9 | -1847.0 | 1051 | 6.3 | 51224.6 | -1817.4 |
| 782 | 8.3 | 40717.6 | -1825.7 | 872 | 9.1 | 42818.1 | -1801.9 | 962  | 8.7 | 45113.8 | -1830.4 | 1052 | 9.4 | 51227.9 | -1824.8 |
| 783 | 9.1 | 40741.4 | -1835.0 | 873 | 9.9 | 42820.0 | -1822.9 | 963  | 9.4 | 45116.6 | -1812.5 | 1053 | 10. | 51251.0 | -1830.8 |
| 784 | 9.4 | 40745.5 | -1842.5 | 874 | 9.8 | 42821.3 | -1812.6 | 964  | 9.0 | 45124.3 | -1842.0 | 1054 | 9.2 | 51251.0 | -1809.0 |
| 785 | 9.8 | 40751.1 | -1854.3 | 875 | 9.9 | 42838.4 | -1843.8 | 965  | 9.2 | 45128.3 | -1843.8 | 1055 | 7.3 | 51256.5 | -1840.4 |
| 786 | 10. | 40752.8 | -1847.6 | 876 | 9.2 | 42937.7 | -1810.7 | 966  | 7.0 | 45219.2 | -1801.9 | 1056 | 7.0 | 51257.3 | -1839.8 |
| 787 | 9.2 | 40755.9 | -1824.7 | 877 | 9.5 | 42951.4 | -1836.4 | 967  | 9.0 | 45223.9 | -1821.6 | 1057 | 9.0 | 51259.5 | -1838.0 |
| 788 | 9.9 | 40825.4 | -1817.5 | 878 | 9.1 | 43003.7 | -1828.9 | 968  | 9.0 | 45232.3 | -1822.3 | 1058 | 9.8 | 51304.9 | -1810.0 |
| 789 | 9.1 | 40832.5 | -1850.9 | 879 | 8.7 | 43017.0 | -1810.7 | 969  | 9.8 | 45244.8 | -1816.1 | 1059 | 9.3 | 51312.6 | -1813.0 |
| 790 | 9.4 | 40836.9 | -1804.2 | 880 | 9.0 | 43017.2 | -1839.8 | 970  | 9.7 | 45251.9 | -1838.7 | 1060 | 9.4 | 51317.5 | -1813.2 |
| 791 | 9.8 | 40846.7 | -1807.4 | 881 | 7.2 | 43118.4 | -1837.4 | 971  | 9.7 | 45305.4 | -1825.7 | 1061 | 9.8 | 51327.7 | -1802.0 |
| 792 | 9.1 | 40907.5 | -1825.6 | 882 | 9.1 | 43137.4 | -1820.4 | 972  | 10. | 45315.8 | -1819.9 | 1062 | 10. | 51347.7 | -1810.0 |
| 793 | 8.7 | 40927.5 | -1842.6 | 883 | 7.2 | 43137.4 | -1806.2 | 973  | 8.2 | 45324.7 | -1852.5 | 1063 | 9.4 | 51356.6 | -1830.7 |
| 794 | 9.5 | 40947.8 | -1807.7 | 884 | 10. | 43153.3 | -1845.9 | 974  | 9.4 | 45451.6 | -1802.0 | 1064 | 10. | 51505.7 | -1816.9 |
| 795 | 7.2 | 40949.4 | -1814.0 | 885 | 9.7 | 43208.3 | -1814.1 | 975  | 8.5 | 45454.0 | -1834.9 | 1065 | 9.8 | 51514.9 | -1853.1 |
| 796 | 9.2 | 41048.2 | -1827.1 | 886 | 8.5 | 43217.8 | -1857.5 | 976  | 9.0 | 45507.7 | -1806.8 | 1066 | 9.1 | 51534.6 | -1858.7 |
| 797 | 9.6 | 41140.1 | -1826.7 | 887 | 9.2 | 43258.8 | -1842.8 | 977  | 9.8 | 45517.5 | -1820.3 | 1067 | 9.2 | 51541.0 | -1808.1 |
| 798 | 9.1 | 41150.3 | -1857.0 | 888 | 9.4 | 43305.0 | -1819.0 | 978  | 9.6 | 45545.8 | -1837.8 | 1068 | 9.3 | 51555.7 | -1819.2 |
| 799 | 9.2 | 41151.0 | -1837.8 | 889 | 10. | 43313.5 | -1841.0 | 979  | 9.1 | 45555.9 | -1848.4 | 1069 | 8.8 | 51558.6 | -1815.8 |
| 800 | 9.1 | 41155.1 | -1845.6 | 890 | 8.5 | 43325.5 | -1823.6 | 980  | 9.5 | 45602.1 | -1806.1 | 1070 | 9.6 | 51614.7 | -1842.7 |
| 801 | 9.7 | 41205.6 | -1842.1 | 891 | 9.0 | 43344.7 | -1834.8 | 981  | 9.0 | 45607.3 | -1840.8 | 1071 | 9.3 | 51630.6 | -1811.1 |
| 802 | 7.0 | 41215.8 | -1803.7 | 892 | 9.3 | 43346.6 | -1804.9 | 982  | 9.8 | 45624.6 | -1858.7 | 1072 | 9.8 | 51647.4 | -1856.2 |
| 803 | 7.0 | 41232.4 | -1812.4 | 893 | 10. | 43412.1 | -1849.5 | 983  | 9.4 | 45651.5 | -1801.4 | 1073 | 9.1 | 51658.5 | -1858.4 |
| 804 | 9.8 | 41255.3 | -1857.6 | 894 | 9.4 | 43421.9 | -1802.8 | 984  | 8.8 | 45708.5 | -1824.3 | 1074 | 9.3 | 51704.8 | -1819.9 |
| 805 | 10. | 41255.9 | -1809.7 | 895 | 9.4 | 43444.1 | -1832.9 | 985  | 9.8 | 45711.6 | -1828.6 | 1075 | 9.5 | 51720.0 | -1832.9 |
| 806 | 7.7 | 41320.7 | -1851.9 | 896 | 9.8 | 43447.5 | -1846.2 | 986  | 9.1 | 45720.9 | -1843.2 | 1076 | 9.3 | 51727.7 | -1842.3 |
| 807 | 9.4 | 41321.9 | -1844.3 | 897 | 9.3 | 43449.5 | -1819.8 | 987  | 9.4 | 45722.7 | -1811.6 | 1077 | 9.5 | 51748.1 | -1837.3 |
| 808 | 9.2 | 41325.7 | -1846.0 | 898 | 9.7 | 43604.2 | -1812.9 | 988  | 9.8 | 45753.1 | -1803.0 | 1078 | 8.8 | 51752.1 | -1812.9 |
| 809 | 9.9 | 41330.4 | -1827.0 | 899 | 9.5 | 43615.3 | -1843.2 | 989  | 9.5 | 45810.4 | -1856.1 | 1079 | 9.5 | 51759.8 | -1850.8 |
| 810 | 10. | 41400.1 | -1838.7 | 900 | 9.0 | 43616.9 | -1812.9 | 990  | 7.3 | 45812.6 | -1805.3 | 1080 | 9.1 | 51803.5 | -1859.5 |
| 811 | 8.1 | 41404.9 | -1805.0 | 901 | 10. | 43618.2 | -1830.6 | 991  | 8.4 | 45816.2 | -1808.7 | 1081 | 9.8 | 51814.9 | -1800.2 |
| 812 | 9.5 | 41409.0 | -1813.1 | 902 | 8.7 | 43625.0 | -1806.2 | 992  | 9.8 | 45835.0 | -1848.5 | 1082 | 9.7 | 51816.5 | -1846.2 |
| 813 | 9.5 | 41423.7 | -1850.1 | 903 | 8.8 | 43625.1 | -1814.2 | 993  | 9.5 | 45847.9 | -1849.7 | 1083 | 9.8 | 51827.9 | -1813.2 |
| 814 | 9.4 | 41426.8 | -1803.2 | 904 | 9.8 | 43715.9 | -1834.9 | 994  | 9.3 | 45909.1 | -1823.7 | 1084 | 9.4 | 51828.9 | -1855.0 |
| 815 | 9.5 | 41505.9 | -1858.4 | 905 | 9.3 | 43732.8 | -1853.6 | 995  | 9.7 | 45920.0 | -1832.6 | 1085 | 8.3 | 51844.8 | -1851.5 |
| 816 | 9.5 | 41506.7 | -1824.8 | 906 | 6.0 | 43743.9 | -1856.2 | 996  | 9.5 | 45932.6 | -1839.5 | 1086 | 9.6 | 51849.9 | -1828.6 |
| 817 | 10. | 41529.3 | -1830.8 | 907 | 9.7 | 43806.3 | -1806.0 | 997  | 9.5 | 45956.1 | -1854.0 | 1087 | 9.2 | 51907.8 | -1849.9 |
| 818 | 9.8 | 41530.4 | -1859.9 | 908 | 10. | 43810.1 | -1851.6 | 998  | 9.8 | 45958.3 | -1855.0 | 1088 | 9.5 | 51909.3 | -1820.0 |
| 819 | 9.8 | 41547.5 | -1846.0 | 909 | 9.2 | 43828.6 | -1833.5 | 999  | 9.5 | 45958.5 | -1823.8 | 1089 | 9.1 | 51926.7 | -1847.0 |
| 820 | 9.5 | 41549.6 | -1852.9 | 910 | 8.6 | 43842.2 | -1826.0 | 1000 | 9.0 | 50012.6 | -1830.5 | 1090 | 9.4 | 51939.7 | -1833.3 |
| 821 | 9.0 | 41602.1 | -1818.0 | 911 | 9.4 | 43855.0 | -1847.9 | 1001 | 8.9 | 50046.2 | -1829.9 | 1091 | 9.4 | 52037.1 | -1836.7 |
| 822 | 9.9 | 41615.3 | -1852.9 | 912 | 9.5 | 43909.4 | -1857.2 | 1002 | 9.8 | 50055.2 | -1851.5 | 1092 | 9.7 | 52042.8 | -1854.2 |
| 823 | 9.5 | 41641.9 | -1859.5 | 913 | 9.6 | 43913.5 | -1859.1 | 1003 | 9.8 | 50056.1 | -1842.4 | 1093 | 9.0 | 52108.0 | -1815.2 |
| 824 | 10. | 41708.5 | -1831.5 | 914 | 10. | 43934.9 | -1812.3 | 1004 | 9.0 | 50109.3 | -1812.4 | 1094 | 9.5 | 52130.3 | -1815.5 |
| 825 | 9.5 | 41721.7 | -1848.1 | 915 | 9.1 | 43950.9 | -1815.2 | 1005 | 8.9 | 50118.7 | -1854.2 | 1095 | 7.5 | 52134.1 | -1807.7 |
| 826 | 9.4 | 41724.7 | -1843.9 | 916 | 7.7 | 43959.5 | -1805.3 | 1006 | 9.9 | 50118.8 | -1801.8 | 1096 | 10. | 52137.2 | -1828.5 |
| 827 | 9.5 | 41731.3 | -1825.6 | 917 | 9.7 | 44007.1 | -1809.1 | 1007 | 9.4 | 50134.0 | -1844.6 | 1097 | 9.0 | 52146.9 | -1847.1 |
| 828 | 9.6 | 41733.9 | -1825.5 | 918 | 9.8 | 44010.6 | -1813.4 | 1008 | 9.3 | 50136.1 | -1847.5 | 1098 | 9.3 | 52156.7 | -1810.8 |
| 829 | 8.9 | 41740.3 | -1852.2 | 919 | 9.4 | 44014.7 | -1830.4 | 1009 | 9.8 | 50157.2 | -1805.0 | 1099 | 9.8 | 52207.0 | -1823.9 |
| 830 | 9.4 | 41758.2 | -1839.4 | 920 | 9.2 | 44021.7 | -1849.1 | 1010 | 7.2 | 50207.9 | -1818.4 | 1100 | 10. | 52219.1 | -1845.8 |
| 831 | 9.7 | 41829.3 | -1815.3 | 921 | 7.7 | 44026.5 | -1840.1 | 1011 | 8.5 | 50234.9 | -1805.5 | 1101 | 8.8 | 52246.9 | -1836.7 |
| 832 | 8.7 | 41858.9 | -1852.1 | 922 | 9.7 | 44037.8 | -1835.1 | 1012 | 9.8 | 50235.0 | -1819.0 | 1102 | 8.5 | 52349.2 | -1840.3 |
| 833 | 9.6 | 41910.4 | -1802.9 | 923 | 9.4 | 44047.9 | -1853.1 | 1013 | 9.4 | 50243.3 | -1809.2 | 1103 | 8.7 | 52401.3 | -1842.8 |
| 834 | 9.1 | 41930.4 | -1832.7 | 924 | 9.8 | 44104.5 | -1836.3 | 1014 | 9.2 | 50311.3 | -1812.0 | 1104 | 10. | 52412.0 | -1856.4 |
| 835 | 7.7 | 41931.8 | -1811.9 | 925 | 9.5 | 44141.9 | -1825.4 | 1015 | 9.5 | 50347.0 | -1844.1 | 1105 | 9.6 | 52421.3 | -1834.7 |
| 836 | 9.5 | 41938.0 | -1833.0 | 926 | 9.8 | 44152.7 | -1825.5 | 1016 | 9.5 | 50402.3 | -1801.0 | 1106 | 8.5 | 52421.5 | -1843.2 |
| 837 | 9.8 | 41954.6 | -1810.5 | 927 | 8.6 | 44153.4 | -1830.7 | 1017 | 9.3 | 50402.8 | -1820.9 | 1107 | 10. | 52428.7 | -1813.6 |
| 838 | 10. | 42004.7 | -1839.1 | 928 | 9.9 | 44214.0 | -1812.0 | 1018 | 7.8 | 50411.0 | -1851.0 | 1108 | 9.4 | 52430.4 | -1823.5 |
| 839 | 8.2 | 42022.8 | -1842.5 | 929 | 9.1 | 44243.6 | -1838.2 | 1019 | 9.6 | 50413.2 | -1839.4 | 1109 | 9.5 | 52434.2 | -1825.5 |
| 840 | 7.0 | 42027.6 | -1858.6 | 930 | 9.5 | 44252.0 | -1832.0 | 1020 | 10. | 50429.0 | -1843.9 | 1110 | 9.3 | 52453.8 | -1840.1 |
| 841 | 9.0 | 42039.6 | -1810.1 | 931 | 10. | 44305.7 | -1842.8 | 1021 | 9.6 | 50434.1 | -1846.5 | 1111 | 9.0 | 52513.7 | -1813.6 |
| 842 | 9.6 | 42040.3 | -1834.2 | 932 | 9.1 | 44349.3 | -1849.2 | 1022 | 10. | 50436.8 | -1818.5 | 1112 | 8.4 | 52522.3 | -1849.6 |
| 843 | 9.7 | 42105.5 | -1808.6 | 933 | 9.8 | 44353.4 | -1808.2 | 1023 | 8.9 | 50525.6 | -1826.1 | 1113 | 9.2 | 52540.9 | -1820.7 |
| 844 | 9.6 | 42114.1 | -1807.9 | 934 | 10. | 44421.9 | -1857.2 | 1024 | 9.4 | 50527.1 | -1819.4 | 1114 | 9.8 | 52545.4 | -1818.2 |
| 845 | 8.4 | 42119.9 | -1825.5 | 935 | 9.1 | 44437.2 | -1847.0 | 1025 | 9.2 | 50527.7 | -1836.3 | 1115 | 9.5 | 52545.4 | -1839.4 |
| 846 | 8.5 | 42120.6 | -1804.9 | 936 | 9.3 | 44443.4 | -1806.4 | 1026 | 9.5 | 50548.9 | -1825.0 | 1116 | 9.8 | 52619.8 | -1803.7 |
| 847 | 9.3 | 42123.1 | -1820.5 | 937 | 8.5 | 44451.8 | -1835.4 | 1027 | 8.8 | 50622.7 | -1853.0 | 1117 | 9.8 | 52630.1 | -1814.1 |
| 848 | 7.3 | 42129.5 | -1809.6 | 938 | 9.2 | 44506.9 | -1858.6 | 1028 | 9.1 | 50624.5 | -1834.8 | 1118 | 9.6 | 52633.9 | -1833.5 |
| 849 | 8.2 | 42245.7 | -1847.5 | 939 | 9.4 | 44515.5 | -1848.2 | 1029 | 8.5 | 50647.4 |         |      |     |         |         |



-18 1134 5h29m

1134 8.5 52946.2 -1847.3  
1135 10.1 52954.5 -1804.0  
1136 9.5 53000.3 -1850.7  
1137 9.2 53012.9 -1825.9  
1138 9.7 53022.0 -1800.5  
1139 9.4 53040.0 -1802.0  
1140 9.5 53044.5 -1840.3  
1141 9.0 53116.4 -1834.7  
1142 9.3 53128.3 -1838.5  
1143 10.1 53143.9 -1858.0

1144 8.6 53152.2 -1848.1  
1145 9.0 53213.3 -1815.9  
1146 9.3 53214.8 -1828.3  
1147 9.4 53228.3 -1830.1  
1148 10.1 53300.4 -1825.7  
1149 10.1 53307.1 -1825.0  
1150 8.8 53320.3 -1848.0  
1151 8.9 53333.7 -1836.4  
1152 9.0 53339.5 -1859.6  
1153 9.4 53404.9 -1800.6

1154 8.8 53409.0 -1849.4  
1155 9.8 53417.8 -1815.8  
1156 9.0 53427.6 -1827.8  
1157 9.5 53446.4 -1854.1  
1158 8.7 53452.3 -1832.2  
1159 9.5 53517.2 -1812.9  
1160 9.7 53521.3 -1851.3  
1161 9.4 53538.0 -1829.2  
1162 9.4 53539.7 -1957.0  
1163 9.8 53550.9 -1823.6

1164 9.1 53553.0 -1801.7  
1165 9.1 53622.3 -1803.8  
1166 8.3 53629.2 -1835.8  
1167 9.2 53630.0 -1830.9  
1168 9.0 53637.5 -1800.1  
1169 10.1 53641.4 -1852.0  
1170 9.2 53647.7 -1831.0  
1171 9.8 53648.6 -1852.4  
1172 6.0 53700.6 -1837.6  
1173 9.8 53720.9 -1858.4

1174 7.2 53742.8 -1821.3  
1175 9.5 53747.4 -1855.5  
1176 9.0 53749.1 -1803.4  
1177 9.0 53821.2 -1803.0  
1178 10.1 53842.2 -1842.7  
1179 9.2 53848.0 -1827.6  
1180 9.5 53933.6 -1805.4  
1181 8.8 53945.7 -1844.3  
1182 9.0 53959.9 -1822.5  
1183 9.8 54003.0 -1814.2

1184 9.3 54028.0 -1826.5  
1185 9.3 54029.8 -1827.2  
1186 9.0 54035.0 -1808.7  
1187 8.2 54046.3 -1813.7  
1188 9.5 54105.2 -1811.4  
1189 9.1 54111.2 -1831.1  
1190 8.8 54128.7 -1840.2  
1191 9.8 54132.9 -1848.5  
1192 9.8 54135.0 -1800.4  
1193 9.0 54151.2 -1815.1

1194 8.6 54205.2 -1845.0  
1195 9.7 54229.2 -1858.0  
1196 8.5 54244.1 -1806.5  
1197 10.1 54300.9 -1851.0  
1198 9.8 54302.4 -1833.7  
1199 9.1 54309.7 -1824.8  
1200 10.1 54314.8 -1806.9  
1201 9.5 54318.3 -1805.5  
1202 9.7 54320.5 -1854.8  
1203 9.6 54327.5 -1837.3

1204 9.0 54334.5 -1843.0  
1205 10.1 54335.4 -1840.7  
1206 8.7 54347.1 -1819.8  
1207 9.2 54404.2 -1846.7  
1208 9.4 54425.4 -1831.5  
1209 9.5 54426.0 -1824.9  
1210 9.8 54427.9 -1813.4  
1211 9.0 54432.3 -1839.7  
1212 10.1 54438.8 -1816.5  
1213 9.1 54440.9 -1846.5

1214 9.2 54444.3 -1812.8  
1215 9.0 54524.1 -1847.4  
1216 9.4 54542.3 -1847.3  
1217 9.5 54543.2 -1809.4  
1218 9.5 54635.9 -1818.8  
1219 9.0 54646.6 -1804.7  
1220 9.8 54650.7 -1832.6  
1221 9.8 54656.6 -1811.4  
1222 9.8 54659.5 -1800.2  
1223 9.5 54704.9 -1819.6

1224 9.3 54707.8 -1819.0  
1225 9.8 54719.4 -1851.1  
1226 9.0 54728.2 -1810.7  
1227 9.5 54805.2 -1834.4  
1228 8.5 54821.5 -1853.4  
1229 10.1 54835.6 -1831.7  
1230 9.5 54843.2 -1808.3  
1231 9.5 54845.7 -1812.1  
1232 9.8 54850.6 -1857.2  
1233 9.6 54855.4 -1823.9

1234 9.9 54906.2 -1823.2  
1235 7.7 54916.1 -1859.6  
1236 8.7 54921.8 -1801.9  
1237 9.6 54922.1 -1803.9  
1238 9.8 54954.3 -1811.2  
1239 9.8 55004.6 -1804.0  
1240 7.8 55024.9 -1818.6  
1241 9.4 55025.1 -1838.5  
1242 9.3 55029.5 -1821.7  
1243 9.1 55034.7 -1836.8

1244 9.9 55043.0 -1826.2  
1245 9.4 55057.1 -1844.5  
1246 9.5 55103.4 -1831.9  
1247 7.0 55111.6 -1804.5  
1248 9.3 55116.5 -1853.0  
1249 8.9 55119.3 -1846.1  
1250 9.4 55122.4 -1816.8  
1251 10.1 55128.8 -1816.2  
1252 9.2 55147.3 -1835.2  
1253 9.0 55151.4 -1848.0

1254 8.6 55152.0 -1800.3  
1255 10.1 55225.3 -1844.1  
1256 10.1 55235.2 -1813.8  
1257 9.3 55235.8 -1811.5  
1258 9.2 55309.3 -1839.6  
1259 9.2 55312.3 -1844.0  
1260 9.4 55319.0 -1853.9  
1261 9.5 55320.6 -1838.5  
1262 8.9 55337.4 -1830.5  
1263 9.4 55347.7 -1839.4

1264 10.1 55413.4 -1805.3  
1265 9.1 55426.8 -1841.8  
1266 9.4 55430.5 -1824.6  
1267 9.2 55449.2 -1808.4  
1268 9.5 55452.9 -1822.3  
1269 8.3 55508.8 -1817.6  
1270 8.0 55522.1 -1802.9  
1271 9.5 55528.5 -1805.2  
1272 8.3 55528.5 -1831.0  
1273 9.5 55541.4 -1854.5

1274 9.4 55556.5 -1857.0  
1275 9.5 55602.9 -1820.5  
1276 8.0 55603.7 -1834.2  
1277 9.6 55605.1 -1826.0  
1278 8.3 55615.9 -1823.5  
1279 9.0 55622.4 -1809.2  
1280 10.1 55622.9 -1830.2  
1281 9.8 55635.7 -1821.2  
1282 10.1 55707.6 -1802.8  
1283 9.5 55711.4 -1852.5

1284 9.3 55713.3 -1840.1  
1285 8.8 55729.9 -1833.1  
1286 9.4 55741.3 -1839.0  
1287 9.2 55751.6 -1840.5  
1288 9.3 55759.5 -1824.8  
1289 8.2 55802.2 -1859.7  
1290 9.8 55817.6 -1826.6  
1291 7.5 55827.7 -1804.5  
1292 9.7 55833.6 -1855.8  
1293 9.5 55840.6 -1840.0

1294 9.7 55846.5 -1823.0  
1295 10.1 55917.7 -1838.1  
1296 10.1 55918.5 -1835.0  
1297 9.0 55919.8 -1820.5  
1298 9.5 55942.3 -1837.6  
1299 9.1 55945.7 -1852.8  
1300 9.1 55946.6 -1839.2  
1301 8.5 55948.6 -1802.7  
1302 9.0 55948.6 -1802.1  
1303 9.8 60066.9 -1800.2

1304 9.6 60048.9 -1821.6  
1305 9.7 60054.6 -1804.0  
1306 9.5 60107.0 -1825.4  
1307 9.8 60112.7 -1825.4  
1308 9.2 60114.0 -1830.8  
1309 9.3 60128.1 -1823.2  
1310 9.4 60200.3 -1826.0  
1311 9.4 60201.4 -1833.5  
1312 9.5 60210.5 -1853.1  
1313 9.8 60222.6 -1802.0

1314 9.1 60243.1 -1843.8  
1315 10.1 60257.7 -1837.9  
1316 6.4 60258.1 -1806.6  
1317 10.1 60259.2 -1845.7  
1318 8.2 60300.5 -1828.2  
1319 8.8 60316.0 -1858.2  
1320 9.3 60323.7 -1854.5  
1321 10.1 60326.1 -1840.0  
1322 9.6 60338.5 -1831.7  
1323 9.4 60350.9 -1853.6

1324 9.9 60359.3 -1815.0  
1325 9.5 60407.4 -1844.6  
1326 9.8 60407.7 -1808.3  
1327 8.8 60424.8 -1830.0  
1328 9.6 60425.6 -1839.7  
1329 9.6 60428.9 -1841.4  
1330 10.1 60453.7 -1811.2  
1331 9.7 60506.3 -1821.6  
1332 9.5 60511.6 -1852.5  
1333 9.2 60519.4 -1849.1

1334 6.8 60521.7 -1809.2  
1335 10.1 60522.6 -1804.7  
1336 8.8 60537.2 -1833.8  
1337 9.1 60606.5 -1858.5  
1338 9.0 60620.3 -1816.7  
1339 9.5 60649.0 -1853.7  
1340 9.1 60651.2 -1843.7  
1341 10.1 60709.3 -1833.8  
1342 9.9 60715.9 -1823.4  
1343 9.0 60724.3 -1843.4

1344 9.0 60727.5 -1824.1  
1345 9.5 60734.4 -1856.3  
1346 9.5 60736.5 -1851.8  
1347 9.2 60753.8 -1837.8  
1348 9.1 60804.1 -1845.2  
1349 8.7 60818.6 -1802.5  
1350 9.4 60820.2 -1812.3  
1351 9.8 60841.2 -1810.6  
1352 6.2 60857.1 -1825.9  
1353 9.5 60858.6 -1839.5

1354 9.4 60900.3 -1815.5  
1355 9.1 60903.8 -1819.1  
1356 9.0 60904.5 -1827.4  
1357 8.9 60908.2 -1833.7  
1358 9.4 60918.9 -1843.7  
1359 9.8 60948.8 -1835.1  
1360 9.5 60958.2 -1827.7  
1361 9.5 61002.9 -1817.3  
1362 9.4 61005.4 -1830.3  
1363 10.1 61016.1 -1826.9

1364 9.0 61028.6 -1814.2  
1365 7.7 61034.1 -1833.6  
1366 9.3 61034.2 -1843.3  
1367 9.4 61042.6 -1847.7  
1368 9.1 61053.0 -1848.2  
1369 9.8 61059.8 -1833.0  
1370 9.6 61109.9 -1837.6  
1371 9.8 61113.7 -1810.0  
1372 9.1 61138.0 -1848.4  
1373 9.0 61147.1 -1830.6

1374 8.3 61157.5 -1821.9  
1375 9.7 61212.0 -1827.3  
1376 9.1 61226.3 -1838.4  
1377 9.4 61300.8 -1825.7  
1378 9.2 61329.8 -1830.0  
1379 8.8 61330.7 -1821.5  
1380 9.8 61334.5 -1834.6  
1381 9.3 61357.8 -1826.5  
1382 9.2 61758.2 -1834.3  
1383 9.8 61400.3 -1832.2

1384 9.4 61408.7 -1803.7  
1385 9.4 61419.5 -1853.1  
1386 9.8 61426.9 -1818.2  
1387 8.8 61426.9 -1839.3  
1388 9.0 61428.2 -1807.5  
1389 9.2 61436.5 -1808.6  
1390 9.0 61515.8 -1812.9  
1391 7.8 61516.6 -1806.1  
1392 8.3 61529.0 -1822.6  
1393 8.8 61530.1 -1801.2

1394 9.1 61535.5 -1857.7  
1395 9.0 61539.4 -1848.0  
1396 9.2 61548.5 -1857.9  
1397 9.5 61603.4 -1837.2  
1398 9.5 61610.2 -1807.6  
1399 9.7 61628.6 -1825.7  
1400 9.9 61630.7 -1835.8  
1401 9.0 61631.7 -1847.3  
1402 10.1 61632.7 -1820.4  
1403 8.6 61633.1 -1833.6

1404 8.3 61650.8 -1809.0  
1405 7.5 61710.5 -1855.7  
1406 10.1 61719.4 -1815.8  
1407 9.5 61730.0 -1847.5  
1408 9.0 61807.5 -1857.6  
1409 9.8 61829.7 -182.8  
1410 9.8 61843.6 -1863.1  
1411 8.8 61851.3 -184.3  
1412 9.3 61851.3 -1813.6  
1413 9.8 61905.9 -1845.4

1414 9.1 61906.3 -1811.0  
1415 9.5 61907.0 -1847.0  
1416 9.5 61911.3 -1813.4  
1417 8.8 61927.9 -183.9  
1418 9.2 61930.7 -1829.9  
1419 9.5 61936.5 -1822.1  
1420 9.4 61938.2 -1831.2  
1421 9.3 61946.9 -1829.0  
1422 9.9 62000.6 -1824.1  
1423 10.1 62010.1 -1829.2

1424 8.5 62010.9 -1809.0  
1425 9.0 62026.9 -1849.9  
1426 9.5 62047.8 -1847.9  
1427 8.5 62103.5 -1853.7  
1428 9.8 62112.6 -1801.7  
1429 9.7 62148.0 -1824.0  
1430 9.7 62159.6 -1829.0  
1431 9.3 62171.3 -1811.0  
1432 9.5 62221.4 -1810.4  
1433 9.2 62236.0 -1858.3

1434 9.5 62236.5 -1825.6  
1435 9.9 62237.5 -1823.8  
1436 8.9 62246.9 -1849.7  
1437 9.2 62252.4 -1832.6  
1438 10.1 62310.6 -1800.7  
1439 9.2 62312.8 -1850.6  
1440 9.4 62314.2 -1832.0  
1441 10.1 62319.1 -1830.2  
1442 9.8 62323.8 -1832.7  
1443 8.7 62328.8 -1820.2

1444 8.7 62328.9 -1825.0  
1445 9.6 62336.5 -1852.5  
1446 9.8 62337.2 -1844.5  
1447 9.1 62345.4 -1822.8  
1448 10.1 62402.7 -1810.5  
1449 9.5 62407.8 -1858.1  
1450 9.7 62408.5 -1819.6  
1451 9.4 62420.9 -1807.3  
1452 9.9 62421.4 -1826.5  
1453 9.9 62422.4 -1826.5

1454 9.5 62430.7 -1835.3  
1455 9.0 62431.1 -1805.4  
1456 9.3 62505.2 -1809.6  
1457 9.8 62532.5 -1825.2  
1458 9.3 62541.3 -1814.5  
1459 9.8 62548.5 -1810.4  
1460 9.8 62549.1 -1829.9  
1461 9.8 62561.2 -1827.0  
1462 9.4 62647.2 -1810.7  
1463 10.1 62701.6 -1817.4

1464 10.1 62702.2 -1826.8  
1465 9.3 62709.1 -1853.7  
1466 9.3 62712.6 -1802.8  
1467 9.3 62738.4 -1849.7  
1468 8.2 62741.3 -1841.8  
1469 9.4 62742.3 -1830.4  
1470 9.2 62821.6 -1803.4  
1471 9.5 62821.7 -1855.2  
1472 9.3 62909.5 -1857.7  
1473 9.2 62916.5 -1859.9

1474 8.8 62917.2 -1823.1  
1475 9.1 62924.4 -1849.8  
1476 8.8 62929.6 -1811.9  
1477 10.1 62948.5 -1819.2  
1478 9.0 63001.3 -1822.7  
1479 9.7 63002.1 -1859.9  
1480 6.5 63002.2 -1822.6  
1481 8.5 63003.9 -1813.6  
1482 9.6 63009.4 -1856.5  
1483 9.4 63009.2 -1820.9

1484 9.8 63014.5 -1857.6  
1485 9.8 63025.0 -1857.4  
1486 9.3 63033.1 -1849.3  
1487 8.2 63053.8 -1824.9  
1488 9.3 63115.5 -1823.7  
1489 9.7 63121.2 -1854.3  
1490 9.3 63128.3 -1851.0  
1491 9.3 63128.5 -1850.3  
1492 4.9 63130.8 -1806.7  
1493 10.1 63153.4 -1805.8

-18 1493 6h31m



-18 1494 6h32m

1494 9.6 63203.9 -1811.4  
1495 8.6 63213.8 -1814.2  
1496 9.7 63225.1 -1820.3  
1497 9.7 63232.4 -1803.5  
1498 7.8 63240.7 -1803.6  
1499 10. 63254.9 -1813.2  
1500 9.3 63259.3 -1807.4  
1501 9.5 63314.1 -1849.8  
1502 9.4 63349.7 -1818.4  
1503 10. 63349.8 -1807.0

1504 8.0 63355.6 -1858.1  
1505 9.9 63415.6 -1826.4  
1506 9.8 63428.8 -1802.4  
1507 10. 63431.5 -1851.0  
1508 9.5 63443.0 -1841.2  
1509 9.5 63451.0 -1849.5  
1510 9.3 63458.3 -1833.4  
1511 9.3 63504.4 -1809.6  
1512 9.4 63525.8 -1805.2  
1513 8.5 63530.8 -1808.4

1514 9.4 63533.1 -1858.4  
1515 9.0 63540.6 -1856.0  
1516 9.1 63557.0 -1854.4  
1517 8.8 63559.4 -1809.3  
1518 8.8 63601.3 -1857.7  
1519 9.1 63629.8 -1802.1  
1520 9.4 63642.4 -1828.9  
1521 9.3 63643.5 -1835.4  
1522 8.8 63651.7 -1804.4  
1523 9.7 63706.2 -1825.7

1524 9.0 63718.8 -1802.5  
1525 10. 63725.4 -1811.0  
1526 9.2 63730.0 -1843.6  
1527 9.2 63735.2 -1826.1  
1528 8.6 63749.0 -1815.5  
1529 9.0 63756.6 -1821.3  
1530 9.5 63809.0 -1815.3  
1531 9.5 63816.5 -1848.2  
1532 9.5 63819.5 -1848.2  
1533 10. 63823.4 -1812.4

1534 7.3 63824.1 -1854.0  
1535 9.3 63825.3 -1857.2  
1536 9.0 63826.3 -1805.1  
1537 7.1 63829.1 -1825.3  
1538 7.2 63847.3 -1807.2  
1539 9.4 63850.5 -1852.7  
1540 9.0 63904.1 -1854.4  
1541 8.9 63936.2 -1822.6  
1542 8.7 63946.2 -1821.6  
1543 9.8 63957.1 -1806.0

1544 9.8 64002.5 -1827.4  
1545 9.1 64005.9 -1830.0  
1546 8.8 64006.4 -1828.2  
1547 9.0 64009.1 -1835.4  
1548 8.9 64011.2 -1805.7  
1549 9.2 64015.6 -1856.6  
1550 8.7 64035.2 -1838.5  
1551 9.7 64038.5 -1834.4  
1552 9.5 64051.8 -1852.0  
1553 9.2 64108.4 -1803.8

1554 8.7 64144.5 -1858.4  
1555 9.4 64145.6 -1835.7  
1556 9.1 64149.0 -1858.5  
1557 9.8 64211.5 -1858.5  
1558 9.6 64213.5 -1830.7  
1559 9.4 64218.9 -1830.6  
1560 10. 64237.8 -1823.6  
1561 9.4 64244.4 -1847.6  
1562 9.0 64252.9 -1809.4  
1563 8.6 64254.0 -1817.8

1564 9.0 64257.3 -1815.1  
1565 9.8 64320.4 -1851.9  
1566 9.8 64329.8 -1825.0  
1567 9.2 64335.5 -1856.5  
1568 9.7 64336.7 -1828.2  
1569 10. 64343.3 -1820.7  
1570 9.2 64347.4 -1827.3  
1571 8.9 64359.0 -1827.2  
1572 9.5 64414.6 -1803.5  
1573 9.5 64418.2 -1845.6

1574 9.2 64421.3 -1815.1  
1575 9.5 64422.6 -1808.2  
1576 9.8 64434.7 -1811.0  
1577 8.7 64443.3 -1816.2  
1578 7.5 64447.4 -1850.5  
1579 9.8 64509.5 -1831.2  
1580 9.8 64518.8 -1808.2  
1581 10. 64531.8 -1817.0  
1582 9.0 64542.7 -1828.3  
1583 9.8 64545.6 -1803.2

1584 9.8 64601.4 -1829.5  
1585 9.5 64613.5 -1801.4  
1586 9.4 64615.5 -1854.0  
1587 9.2 64618.9 -1828.2  
1588 9.5 64637.7 -1816.5  
1589 9.5 64639.9 -1845.0  
1590 8.7 64647.2 -1849.5  
1591 6.0 64659.5 -1851.3  
1592 9.5 64659.9 -1821.4  
1593 9.1 64700.8 -1835.1

1594 6.8 64701.4 -1845.0  
1595 8.2 64706.7 -1816.3  
1596 8.7 64738.9 -1822.6  
1597 9.7 64741.4 -1839.5  
1598 9.0 64746.1 -1806.7  
1599 9.2 64755.4 -1812.4  
1600 9.1 64804.6 -1813.4  
1601 9.4 64805.5 -1801.2  
1602 9.5 64818.0 -1849.3  
1603 9.7 64846.7 -1832.8

1604 10. 64913.0 -1827.1  
1605 9.8 64924.4 -1844.8  
1606 8.4 64926.7 -1816.5  
1607 9.4 64930.1 -1855.2  
1608 9.0 64946.5 -1855.0  
1609 9.6 64948.0 -1816.9  
1610 9.0 65007.2 -1828.5  
1611 9.1 65017.4 -1825.8  
1612 9.1 65033.6 -1824.3  
1613 9.0 65053.1 -1803.2

1614 9.1 65101.6 -1809.5  
1615 9.1 65134.9 -1822.4  
1616 9.7 65137.4 -1821.8  
1617 9.8 65200.5 -1800.5  
1618 9.1 65207.2 -1800.1  
1619 9.1 65211.7 -1857.9  
1620 9.1 65219.5 -1829.8  
1621 9.2 65220.0 -1834.4  
1622 9.4 65227.6 -1812.1  
1623 9.1 65239.4 -1827.0

1624 9.5 65242.7 -1816.0  
1625 9.5 65259.1 -1803.8  
1626 9.0 65305.9 -1840.2  
1627 9.3 65316.2 -1846.2  
1628 9.5 65340.9 -1820.4  
1629 9.7 65341.4 -1854.0  
1630 9.5 65342.4 -1835.0  
1631 9.1 65347.9 -1841.9  
1632 9.8 65417.5 -1847.5  
1633 8.6 65418.6 -1806.0

1634 9.4 65435.0 -1829.3  
1635 9.4 65447.6 -1813.1  
1636 9.1 65449.5 -1825.1  
1637 9.3 65451.1 -1805.9  
1638 9.6 65504.1 -1850.2  
1639 9.8 65506.1 -1807.8  
1640 9.9 65511.4 -1851.4  
1641 9.7 65518.2 -1811.6  
1642 9.1 65523.1 -1834.5  
1643 10. 65528.4 -1836.0

1644 9.0 65536.1 -1808.0  
1645 9.1 65538.9 -1825.0  
1646 10. 65606.5 -1845.5  
1647 10. 65612.8 -1846.1  
1648 9.1 65618.6 -1807.5  
1649 8.8 65621.7 -1857.2  
1650 8.3 65635.6 -1807.5  
1651 10. 65646.0 -1823.7  
1652 9.8 65648.4 -1821.9  
1653 9.1 65701.3 -1838.2

1654 10. 65704.1 -1805.5  
1655 9.8 65711.4 -1820.7  
1656 9.0 65721.5 -1849.6  
1657 9.7 65729.3 -1841.3  
1658 9.7 65731.9 -1828.4  
1659 9.5 65733.2 -1828.9  
1660 9.5 65741.3 -1852.8  
1661 9.8 65752.0 -1826.8  
1662 9.8 65758.4 -1821.3  
1663 9.5 65759.4 -1851.2

1664 9.0 65805.7 -1801.2  
1665 9.4 65808.3 -1822.0  
1666 9.5 65813.3 -1822.2  
1667 8.6 65824.2 -1856.1  
1668 9.4 65824.4 -1846.0  
1669 9.5 65834.5 -1858.1  
1670 9.8 65845.2 -1815.9  
1671 9.8 65846.9 -1810.8  
1672 9.7 65902.0 -1828.7  
1673 9.1 65909.4 -1856.1

1674 9.2 65918.9 -1803.1  
1675 8.5 65920.1 -1817.7  
1676 9.5 65921.2 -1827.8  
1677 9.5 65922.7 -1815.4  
1678 8.9 65922.7 -1844.1  
1679 9.1 65926.3 -1829.8  
1680 9.0 65928.0 -1830.4  
1681 9.0 65943.8 -1829.4  
1682 9.4 65944.0 -1811.6  
1683 8.5 70002.9 -1854.2

1684 9.5 70010.7 -1819.2  
1685 10. 70023.9 -1829.5  
1686 9.8 70033.4 -1812.6  
1687 9.0 70037.8 -1843.0  
1688 10. 70055.4 -1803.9  
1689 9.5 70056.8 -1856.3  
1690 9.7 70103.0 -1805.2  
1691 10. 70120.0 -1820.8  
1692 9.5 70120.2 -1822.3  
1693 10. 70128.9 -1851.1

1694 8.9 70145.2 -1833.2  
1695 9.8 70154.7 -1815.9  
1696 8.5 70157.8 -1847.7  
1697 10. 70204.3 -1855.5  
1698 8.0 70205.2 -1822.2  
1699 9.6 70205.9 -1835.4  
1700 9.8 70220.4 -1829.8  
1701 8.5 70220.7 -1802.5  
1702 10. 70221.6 -1828.4  
1703 9.0 70231.2 -1817.3

1704 9.1 70244.3 -1808.4  
1705 7.5 70313.5 -1852.9  
1706 9.5 70314.9 -1801.2  
1707 9.8 70318.6 -1846.1  
1708 9.1 70325.3 -1835.9  
1709 9.4 70330.0 -1830.2  
1710 9.8 70339.1 -1818.9  
1711 6.8 70346.5 -1827.2  
1712 9.8 70347.3 -1822.1  
1713 8.0 70349.2 -1819.1

1714 7.4 70350.9 -1857.9  
1715 8.5 70354.5 -1810.4  
1716 9.6 70407.7 -1805.1  
1717 9.0 70410.0 -1837.9  
1718 9.4 70428.6 -1854.9  
1719 9.8 70440.9 -1831.0  
1720 9.7 70508.5 -1828.3  
1721 10. 70511.7 -1859.7  
1722 9.4 70513.9 -1847.3  
1723 9.5 70516.5 -1859.4

1724 8.8 70518.9 -1850.5  
1725 9.8 70529.6 -1829.1  
1726 8.2 70545.8 -1814.6  
1727 9.8 70549.0 -1857.5  
1728 9.4 70502.6 -1822.5  
1729 9.5 70610.8 -1856.5  
1730 9.5 70629.3 -1841.7  
1731 8.6 70644.4 -1848.9  
1732 9.4 70710.5 -1829.3  
1733 9.1 70715.7 -1824.0

1734 9.4 70728.5 -1839.0  
1735 9.0 70735.2 -1802.4  
1736 9.5 70742.6 -1833.9  
1737 9.5 70744.1 -1812.8  
1738 9.2 70744.8 -1823.9  
1739 9.0 70746.0 -1844.2  
1740 8.0 70748.5 -1844.2  
1741 9.3 70756.5 -1844.3  
1742 9.4 70756.8 -1845.8  
1743 8.2 70756.9 -1811.3

1744 9.1 70835.4 -1811.9  
1745 10. 70837.3 -1813.1  
1746 9.5 70852.5 -1802.8  
1747 9.4 70858.8 -1807.3  
1748 9.2 70858.9 -1811.3  
1749 8.6 70916.0 -1838.4  
1750 9.1 70918.3 -1832.8  
1751 9.5 70923.6 -1850.0  
1752 9.4 70927.3 -1805.3  
1753 8.9 70930.4 -1844.9

1754 9.4 70932.7 -1834.6  
1755 9.6 70955.2 -1854.8  
1756 9.7 70958.3 -1802.6  
1757 9.8 71006.1 -1826.0  
1758 8.9 71006.3 -1857.7  
1759 10. 71006.7 -1807.1  
1760 9.2 71010.3 -1812.5  
1761 9.4 71016.3 -1803.1  
1762 9.5 71025.9 -1834.8  
1763 9.3 71036.4 -1812.2

1764 9.8 71037.0 -1857.2  
1765 9.4 71042.1 -1853.4  
1766 8.5 71054.9 -1800.4  
1767 8.8 71103.9 -1827.6  
1768 8.1 71109.7 -1832.4  
1769 9.2 71123.5 -1833.7  
1770 9.4 71127.0 -1830.5  
1771 9.8 71137.5 -1824.9  
1772 9.8 71139.8 -1822.0  
1773 9.3 71149.2 -1830.7

1774 10. 71206.1 -1809.9  
1775 9.2 71208.4 -1858.4  
1776 9.5 71214.9 -1857.6  
1777 9.0 71218.2 -1842.9  
1778 10. 71226.3 -1826.2  
1779 9.7 71248.9 -1855.5  
1780 9.0 71249.5 -1803.4  
1781 10. 71254.4 -1813.9  
1782 9.3 71304.2 -1817.7  
1783 9.2 71306.2 -1829.5

1784 9.5 71308.5 -1847.2  
1785 10. 71314.9 -1802.7  
1786 8.7 71318.3 -1825.1  
1787 9.2 71318.8 -1812.6  
1788 9.6 71324.9 -1859.9  
1789 9.8 71325.0 -1823.3  
1790 9.3 71337.7 -1821.7  
1791 9.5 71354.7 -1809.2  
1792 9.5 71412.1 -1840.5  
1793 8.6 71413.9 -1803.1

1794 8.2 71420.6 -1857.6  
1795 9.1 71422.2 -1819.4  
1796 9.8 71423.5 -1824.8  
1797 9.8 71436.8 -1800.2  
1798 8.5 71454.7 -1821.1  
1799 10. 71508.4 -1802.2  
1800 9.8 71511.3 -1831.2  
1801 10. 71512.2 -1856.4  
1802 9.8 71515.5 -1844.6  
1803 9.6 71517.2 -1850.6

1804 9.8 71532.4 -1804.3  
1805 9.1 71533.3 -1812.4  
1806 6.0 71550.2 -1844.4  
1807 8.6 71559.8 -1856.2  
1808 9.5 71604.4 -1843.7  
1809 9.0 71609.9 -1845.3  
1810 9.4 71613.1 -1831.0  
1811 9.5 71618.2 -1815.8  
1812 9.4 71635.4 -1854.2  
1813 9.4 71648.9 -1822.9

1814 9.3 71653.5 -1812.8  
1815 8.8 71658.4 -1803.9  
1816 10. 71705.7 -1821.8  
1817 8.5 71710.7 -1838.5  
1818 9.1 71729.1 -1819.6  
1819 9.2 71737.7 -1845.8  
1820 9.8 71742.8 -1800.2  
1821 9.5 71746.5 -1810.2  
1822 8.0 71752.6 -1803.9  
1823 9.0 71818.8 -1844.3

1824 9.2 71822.6 -1822.0  
1825 7.0 71827.7 -1843.7  
1826 9.0 71841.3 -1834.0  
1827 9.5 71845.9 -1857.1  
1828 9.5 71856.0 -1809.5  
1829 9.3 71903.3 -1806.6  
1830 9.5 71920.4 -1809.3  
1831 7.8 71937.3 -1804.5  
1832 9.3 71945.9 -1853.4  
1833 9.4 71952.8 -1826.0

1834 9.9 71955.8 -1848.3  
1835 9.7 71959.2 -1844.0  
1836 9.9 71959.5 -1855.9  
1837 8.5 72004.7 -1828.3  
1838 9.5 72027.3 -1830.0  
1839 9.5 72030.9 -1847.2  
1840 9.4 72038.8 -1848.1  
1841 10. 72046.7 -1825.7  
1842 10. 72047.0 -1817.0  
1843 9.3 72048.8 -1848.3

1844 9.0 72049.6 -1840.5  
1845 9.5 72106.9 -1852.3  
1846 7.6 72109.9 -1812.2  
1847 8.5 72112.3 -1812.2  
1848 10. 72112.3 -1825.5  
1849 9.5 72132.3 -1835.9  
1850 9.8 72135.2 -1820.6  
1851 7.5 72142.3 -1849.8  
1852 10. 72157.4 -1825.8  
1853 9.1 72158.3 -1833.9

-18 1853 7h21m



1854 9.4 72205.0 -1810.3  
 1855 9.3 72223.0 -1835.4  
 1856 9.1 72232.7 -1829.7  
 1857 9.1 72236.4 -1810.9  
 1858 7.2 72241.1 -1835.4  
 1859 9.2 72246.0 -1835.2  
 1860 9.8 72252.3 -1803.5  
 1861 10. 72255.8 -1829.0  
 1862 9.3 72307.5 -1812.9  
 1863 9.0 72309.4 -1809.9

1864 9.2 72313.1 -1856.3  
 1865 9.8 72318.3 -1807.6  
 1866 9.7 72346.8 -1833.6  
 1867 8.3 72352.4 -1808.0  
 1868 10. 72404.5 -1859.5  
 1869 9.9 72405.2 -1855.8  
 1870 10. 72414.4 -1814.0  
 1871 9.4 72415.6 -1828.2  
 1872 9.4 72429.9 -1827.5  
 1873 9.0 72434.5 -1838.1

1874 9.8 72437.9 -1852.0  
 1875 9.6 72438.9 -1859.1  
 1876 9.8 72439.9 -1816.1  
 1877 9.7 72441.3 -1824.2  
 1878 9.3 72443.4 -1830.7  
 1879 9.5 72448.7 -1821.2  
 1880 9.3 72453.0 -1856.9  
 1881 9.5 72455.9 -1809.8  
 1882 9.0 72458.3 -1852.4  
 1883 9.5 72506.6 -1815.9

1884 9.1 72515.0 -1856.0  
 1885 9.4 72518.4 -1824.3  
 1886 9.2 72526.0 -1838.5  
 1887 9.4 72526.2 -1815.8  
 1888 9.8 72534.1 -1835.7  
 1889 9.5 72535.2 -1824.7  
 1890 9.8 72539.0 -1815.4  
 1891 9.3 72546.3 -1825.4  
 1892 9.8 72550.0 -1859.3  
 1893 7.7 72550.9 -1812.3

1894 9.2 72557.5 -1834.6  
 1895 9.0 72601.4 -1825.9  
 1896 9.3 72607.2 -1852.6  
 1897 3.8 72608.8 -1852.1  
 1898 9.5 72611.5 -1854.3  
 1899 9.5 72614.3 -1843.7  
 1900 10. 72623.6 -1820.7  
 1901 8.7 72624.4 -1821.6  
 1902 9.7 72644.2 -1856.9  
 1903 10. 72653.2 -1815.3

1904 9.8 72653.6 -1834.8  
 1905 9.0 72710.7 -1845.7  
 1906 9.2 72711.6 -1853.7  
 1907 9.2 72714.7 -1817.6  
 1908 9.4 72720.6 -1845.2  
 1909 10. 72728.6 -1803.7  
 1910 9.8 72731.8 -1840.6  
 1911 10. 72732.9 -1807.1  
 1912 9.3 72742.1 -1812.0  
 1913 9.9 72756.7 -1815.4

1914 9.6 72759.9 -1818.8  
 1915 9.3 72820.5 -1808.2  
 1916 9.8 72821.0 -1818.3  
 1917 9.4 72827.7 -1832.1  
 1918 9.0 72829.6 -1840.0  
 1919 9.5 72832.4 -1857.5  
 1920 9.4 72849.0 -1829.0  
 1921 8.7 72850.7 -1835.1  
 1922 9.1 72921.3 -1814.5  
 1923 9.3 72922.7 -1821.8

1924 9.8 72929.7 -1859.0  
 1925 8.0 72932.0 -1831.5  
 1926 9.0 72905.9 -1828.7  
 1927 9.5 73022.5 -1839.8  
 1928 8.7 73023.6 -1839.0  
 1929 9.1 73028.1 -1828.3  
 1930 9.2 73050.0 -1805.2  
 1931 9.1 73052.8 -1829.6  
 1932 8.6 73056.8 -1808.4  
 1933 9.5 73109.3 -1853.8

1934 9.5 73116.6 -1801.0  
 1935 9.8 73122.4 -1815.5  
 1936 9.3 73126.0 -1817.7  
 1937 9.5 73128.6 -1824.0  
 1938 10. 73139.4 -1803.6  
 1939 10. 73155.9 -1829.8  
 1940 10. 73201.6 -1827.7  
 1941 9.1 73202.4 -1810.9  
 1942 10. 73204.1 -1829.9  
 1943 9.3 73211.7 -1844.8

1944 9.5 73237.3 -1839.2  
 1945 9.4 73237.9 -1828.7  
 1946 7.3 73241.0 -1820.9  
 1947 9.1 73258.6 -1827.0  
 1948 9.5 73259.1 -1829.0  
 1949 9.3 73302.0 -1841.5  
 1950 9.3 73306.0 -1840.1  
 1951 9.5 73330.3 -1856.6  
 1952 9.0 73333.5 -1843.7  
 1953 9.8 73337.6 -1842.8

1954 9.8 73342.3 -1812.2  
 1955 9.3 73347.9 -1819.9  
 1956 9.8 73352.2 -1806.1  
 1957 8.8 73352.5 -1812.8  
 1958 8.4 73355.8 -1829.8  
 1959 9.5 73407.7 -1855.7  
 1960 9.8 73413.1 -1846.7  
 1961 9.5 73420.5 -1823.5  
 1962 9.8 73424.0 -1809.8  
 1963 9.5 73428.8 -1817.6

1964 9.4 73435.2 -1811.8  
 1965 8.7 73447.7 -1851.6  
 1966 9.8 73448.3 -1815.4  
 1967 8.5 73448.8 -1839.3  
 1968 9.0 73459.1 -1849.5  
 1969 9.0 73527.1 -1803.5  
 1970 9.8 73528.6 -1846.9  
 1971 9.4 73532.4 -1823.7  
 1972 9.8 73541.4 -1834.9  
 1973 9.8 73542.9 -1835.3

1974 8.7 73543.6 -1853.5  
 1975 9.5 73545.5 -1842.3  
 1976 7.8 73555.3 -1845.9  
 1977 9.5 73557.1 -1805.0  
 1978 9.8 73557.4 -1818.2  
 1979 9.8 73607.4 -1806.5  
 1980 10. 73607.9 -1803.1  
 1981 9.1 73623.1 -1803.8  
 1982 9.0 73624.6 -1819.9  
 1983 9.3 73625.2 -1808.5

1984 9.2 73634.0 -1835.9  
 1985 9.5 73640.9 -1827.3  
 1986 9.7 73653.6 -1821.6  
 1987 9.5 73655.4 -1802.7  
 1988 9.8 73704.3 -1819.0  
 1989 8.8 73725.3 -1835.0  
 1990 10. 73726.1 -1829.9  
 1991 9.5 73727.2 -1858.6  
 1992 10. 73727.4 -1834.8  
 1993 9.0 73731.3 -1815.2

1994 9.5 73733.0 -1826.0  
 1995 10. 73745.6 -1848.4  
 1996 9.5 73748.6 -1848.4  
 1997 9.5 73752.0 -1813.0  
 1998 9.8 73803.6 -1851.8  
 1999 9.0 73807.7 -1854.9  
 2000 9.5 73823.9 -1822.5  
 2001 9.3 73826.7 -1859.0  
 2002 9.3 73837.1 -1807.5  
 2003 8.8 73851.1 -1821.0

2004 9.0 73858.5 -1842.2  
 2005 9.9 73908.2 -1858.3  
 2006 8.5 73915.3 -1805.0  
 2007 9.3 73918.7 -1859.6  
 2008 8.2 73920.9 -1833.0  
 2009 9.0 73921.6 -1848.7  
 2010 10. 73945.0 -1847.8  
 2011 9.8 73954.7 -1857.0  
 2012 9.5 73954.8 -1824.6  
 2013 9.0 73955.1 -1808.6

2014 9.8 73958.2 -1811.0  
 2015 9.5 74004.4 -1824.0  
 2016 9.8 74008.1 -1849.5  
 2017 8.9 74017.7 -1855.8  
 2018 9.2 74034.0 -1850.0  
 2019 9.3 74036.5 -1830.0  
 2020 10. 74124.4 -1808.4  
 2021 9.3 74127.5 -1823.0  
 2022 9.0 74139.2 -1826.5  
 2023 8.5 74141.7 -1858.5

2024 9.3 74145.2 -1831.6  
 2025 9.3 74157.1 -1809.2  
 2026 9.0 74200.7 -1856.2  
 2027 9.5 74203.7 -1853.2  
 2028 9.3 74204.2 -1858.3  
 2029 7.7 74218.0 -1849.2  
 2030 9.4 74222.4 -1838.7  
 2031 9.5 74227.9 -1800.8  
 2032 9.5 74236.0 -1844.4  
 2033 10. 74236.3 -1820.9

2034 9.8 74241.8 -1805.0  
 2035 9.5 74251.2 -1858.4  
 2036 9.4 74252.0 -1847.4  
 2037 9.2 74303.1 -1828.8  
 2038 9.5 74305.0 -1846.7  
 2039 10. 74313.5 -1803.0  
 2040 8.5 74319.3 -1838.4  
 2041 8.7 74322.2 -1834.2  
 2042 9.7 74324.3 -1813.1  
 2043 9.3 74335.6 -1843.1

2044 9.1 74340.2 -1814.8  
 2045 9.1 74345.0 -1803.0  
 2046 9.4 74345.6 -1851.4  
 2047 10. 74404.1 -1832.7  
 2048 9.4 74407.3 -1839.3  
 2049 8.2 74410.2 -1834.6  
 2050 10. 74419.4 -1811.1  
 2051 8.9 74423.5 -1832.4  
 2052 9.5 74433.5 -1850.7  
 2053 9.4 74448.4 -1816.4

2054 9.7 74453.4 -1818.6  
 2055 9.5 74502.3 -1838.0  
 2056 9.0 74506.1 -1858.1  
 2057 9.0 74516.6 -1857.8  
 2058 9.5 74523.5 -1847.5  
 2059 9.4 74530.8 -1831.4  
 2060 9.7 74531.7 -1830.2  
 2061 8.8 74532.9 -1845.4  
 2062 10. 74543.6 -1814.0  
 2063 9.8 74557.9 -1850.9

2064 9.3 74559.7 -1822.0  
 2065 9.4 74609.3 -1812.1  
 2066 9.8 74636.0 -1850.1  
 2067 9.7 74636.1 -1844.0  
 2068 9.7 74643.2 -1818.5  
 2069 9.5 74644.2 -1809.6  
 2070 10. 74653.0 -1801.7  
 2071 10. 74714.1 -1813.9  
 2072 9.1 74715.3 -1833.2  
 2073 10. 74723.6 -1817.5

2074 10. 74802.3 -1800.4  
 2075 9.1 74804.9 -1845.9  
 2076 9.8 74823.4 -1806.0  
 2077 9.2 74827.9 -1827.4  
 2078 9.2 74833.3 -1834.1  
 2079 9.8 74842.2 -1851.5  
 2080 9.7 74851.8 -1856.1  
 2081 9.8 74858.3 -1800.7  
 2082 7.2 74902.2 -1839.8  
 2083 9.6 74904.9 -1849.1

2084 9.3 74906.9 -1829.8  
 2085 8.7 74909.8 -1842.9  
 2086 9.5 74915.3 -1837.7  
 2087 9.4 74925.9 -1802.7  
 2088 9.8 74931.6 -1833.5  
 2089 9.5 74945.6 -1848.1  
 2090 9.1 74958.2 -1838.8  
 2091 10. 75001.0 -1812.9  
 2092 9.3 75007.9 -1830.3  
 2093 8.7 75013.9 -1831.0

2094 10. 75018.2 -1817.6  
 2095 9.2 75022.1 -1821.0  
 2096 9.5 75035.5 -1857.9  
 2097 9.5 75036.1 -1845.8  
 2098 10. 75041.6 -1803.6  
 2099 9.1 75043.7 -1859.9  
 2100 9.5 75051.0 -1820.6  
 2101 9.7 75053.5 -1829.8  
 2102 9.5 75110.0 -1856.0  
 2103 8.3 75112.3 -1845.2

2104 10. 75120.1 -1821.5  
 2105 9.8 75120.9 -1831.8  
 2106 9.7 75123.7 -1816.4  
 2107 10. 75126.1 -1808.3  
 2108 8.2 75135.9 -1852.8  
 2109 9.2 75153.3 -1842.7  
 2110 8.5 75209.2 -1816.4  
 2111 10. 75209.4 -1807.5  
 2112 9.2 75224.2 -1842.5  
 2113 9.2 75228.0 -1803.1

2114 9.2 75238.9 -1856.8  
 2115 9.6 75258.4 -1809.2  
 2116 9.3 75304.8 -1819.5  
 2117 9.5 75319.0 -1818.1  
 2118 5.3 75321.9 -1800.2  
 2119 9.4 75324.5 -1812.7  
 2120 9.9 75345.8 -1802.6  
 2121 10. 75357.2 -1830.7  
 2122 9.8 75357.7 -1807.3  
 2123 10. 75400.3 -1804.6

2124 9.4 75402.4 -1801.5  
 2125 9.6 75404.5 -1856.5  
 2126 9.6 75434.9 -1834.7  
 2127 8.7 75437.7 -1843.9  
 2128 9.5 75441.2 -1800.6  
 2129 9.4 75442.5 -1848.0  
 2130 7.8 75505.4 -1814.7  
 2131 9.4 75515.0 -1834.4  
 2132 9.4 75517.6 -1838.1  
 2133 9.7 75524.9 -1836.5

2134 8.9 75527.0 -1806.4  
 2135 9.1 75537.4 -1816.4  
 2136 9.5 75554.2 -1834.4  
 2137 9.7 75557.2 -1837.0  
 2138 9.5 75604.2 -1801.7  
 2139 9.4 75607.2 -1842.8  
 2140 9.7 75619.4 -1831.1  
 2141 9.8 75622.1 -1818.4  
 2142 9.8 75624.1 -1818.4  
 2143 9.4 75628.1 -1856.3

2144 9.7 75628.3 -1810.4  
 2145 9.5 75640.0 -1821.2  
 2146 9.6 75645.7 -1825.7  
 2147 8.3 75649.2 -1810.8  
 2148 9.7 75655.5 -1810.8  
 2149 9.4 75710.5 -1835.5  
 2150 9.5 75713.1 -1827.5  
 2151 9.0 75724.2 -1852.2  
 2152 9.5 75727.3 -1800.0  
 2153 9.3 75736.0 -1834.4

2154 8.7 75738.6 -1857.7  
 2155 8.0 75802.8 -1834.3  
 2156 9.8 75803.1 -1801.0  
 2157 9.6 75804.5 -1820.2  
 2158 10. 75829.7 -1811.6  
 2159 8.7 75845.9 -1859.2  
 2160 9.3 75848.0 -1821.7  
 2161 9.1 75853.8 -1815.0  
 2162 8.8 75854.6 -1800.4  
 2163 9.3 75859.9 -1814.1

2164 9.8 75912.2 -1802.9  
 2165 9.1 75923.0 -1854.7  
 2166 9.5 75927.6 -1835.8  
 2167 9.0 75939.5 -1839.0  
 2168 9.8 75941.0 -1801.8  
 2169 9.5 75945.0 -1819.2  
 2170 9.5 75947.4 -1816.7  
 2171 10. 75955.9 -1858.8  
 2172 9.4 80003.0 -1822.1  
 2173 9.1 80024.1 -1842.3

2174 9.3 80025.1 -1858.2  
 2175 9.8 80037.7 -1826.8  
 2176 9.4 80039.6 -1831.6  
 2177 9.8 80050.0 -1827.2  
 2178 10. 80056.7 -1808.3  
 2179 10. 80102.2 -1800.7  
 2180 9.1 80112.1 -1845.7  
 2181 8.7 80118.8 -1844.8  
 2182 9.5 80122.5 -1857.6  
 2183 9.1 80123.0 -1839.9

2184 9.1 80124.9 -1848.4  
 2185 9.5 80131.1 -1804.0  
 2186 9.0 80203.3 -1853.3  
 2187 9.8 80217.1 -1850.3  
 2188 9.4 80221.0 -1818.1  
 2189 9.3 80224.8 -1835.4  
 2190 4.5 80233.1 -1849.3  
 2191 9.1 80236.2 -1826.1  
 2192 9.8 80243.0 -1827.9  
 2193 9.5 80259.7 -1852.0

2194 9.4 80305.4 -1823.4  
 2195 10. 80314.4 -1822.5  
 2196 9.5 80331.9 -1836.6  
 2197 9.3 80343.6 -1848.3  
 2198 9.3 80353.4 -1820.8  
 2199 9.3 80356.5 -1837.0  
 2200 9.3 80357.8 -1845.8  
 2201 9.7 80412.3 -1827.9  
 2202 9.5 80416.2 -1840.5  
 2203 9.7 80418.2 -1825.3

2204 9.8 80418.6 -1819.5  
 2205 9.6 80428.6 -1825.6  
 2206 7.6 80434.0 -1822.8  
 2207 9.4 80452.9 -1837.7  
 2208 10. 80456.1 -1806.4  
 2209 10. 80512.1 -1806.8  
 2210 9.8 80528.1 -1806.1  
 2211 9.5 80531.7 -1855.2  
 2212 9.4 80532.4 -1819.5  
 2213 9.4 80537.2 -1855.9



-18 2214 8h05m

2214 9.6 80541.8 -1832.2  
2215 9.8 80544.5 -1800.0  
2216 8.8 80557.7 -1856.1  
2217 9.3 80609.1 -1809.5  
2218 9.5 80610.0 -1852.7  
2219 9.4 80614.4 -1859.3  
2220 9.8 80621.3 -1824.9  
2221 9.1 80623.3 -1847.9  
2222 9.3 80627.7 -1851.3  
2223 9.5 80628.8 -1858.1  
  
2224 9.2 80630.5 -1839.1  
2225 10.1 80639.0 -1834.6  
2226 9.3 80641.9 -1848.7  
2227 9.4 80645.8 -1820.8  
2228 8.9 80650.1 -1835.0  
2229 8.2 80701.8 -1825.5  
2230 9.5 80704.9 -1800.7  
2231 9.5 80715.5 -1846.4  
2232 9.5 80730.0 -1808.9  
2233 8.9 80730.9 -1832.8  
  
2234 9.5 80739.0 -1813.5  
2235 9.5 80739.8 -1832.1  
2236 10.1 80811.5 -1809.6  
2237 9.5 80813.8 -1821.8  
2238 9.1 80819.6 -1834.7  
2239 9.1 80827.5 -1804.6  
2240 9.0 80836.2 -1856.9  
2241 9.7 80902.6 -1833.6  
2242 8.7 80910.2 -1827.0  
2243 7.5 80931.1 -1858.1  
  
2244 9.3 80936.9 -1844.9  
2245 9.3 80938.2 -1818.0  
2246 9.6 80958.4 -1820.9  
2247 9.1 80959.6 -1832.6  
2248 9.1 81002.5 -1807.9  
2249 10.1 81003.6 -1819.5  
2250 9.8 81005.5 -1847.5  
2251 8.7 81021.9 -1843.1  
2252 9.3 81023.0 -1847.9  
2253 9.5 81044.1 -1824.4  
  
2254 9.5 81055.8 -1824.4  
2255 9.3 81057.9 -1833.4  
2256 8.8 81101.2 -1820.4  
2257 8.0 81104.0 -1830.8  
2258 10.1 81104.6 -1811.2  
2259 9.8 81108.4 -1827.5  
2260 9.1 81110.2 -1840.4  
2261 8.7 81118.0 -1812.0  
2262 9.8 81120.5 -1845.5  
2263 9.6 81128.8 -1828.0  
  
2264 9.5 81131.7 -1820.3  
2265 9.4 81136.0 -1823.0  
2266 9.5 81145.4 -1851.4  
2267 9.4 81148.3 -1848.9  
2268 9.4 81156.8 -1820.0  
2269 9.6 81206.0 -1837.8  
2270 9.2 81207.9 -1851.0  
2271 9.2 81209.4 -1834.2  
2272 9.9 81213.2 -1847.7  
2273 10.1 81213.8 -1815.0  
  
2274 10.1 81217.1 -1807.9  
2275 9.5 81231.8 -1857.0  
2276 9.3 81237.3 -1836.2  
2277 8.0 81243.4 -1800.6  
2278 9.6 81246.7 -1831.0  
2279 9.6 81251.4 -1826.1  
2280 9.8 81301.9 -1847.9  
2281 9.6 81303.3 -1819.7  
2282 9.5 81305.9 -1842.3  
2283 9.5 81335.2 -1825.7  
  
2284 9.3 81353.3 -1855.8  
2285 10.1 81407.3 -1807.5  
2286 9.5 81408.8 -1815.4  
2287 8.5 81415.8 -1849.2  
2288 9.4 81417.7 -1859.0  
2289 9.9 81422.0 -1825.9  
2290 8.8 81427.3 -1848.0  
2291 8.8 81427.4 -1827.9  
2292 9.0 81428.4 -1837.5  
2293 9.1 81440.2 -1856.2  
  
2294 9.4 81445.3 -1855.8  
2295 9.8 81448.7 -1825.3  
2296 9.9 81449.5 -1827.5  
2297 9.0 81452.0 -1855.7  
2298 9.4 81511.8 -1851.1  
2299 9.3 81513.7 -1817.8  
2300 9.2 81516.2 -1822.0  
2301 9.3 81529.8 -1848.8  
2302 9.0 81547.0 -1825.0  
2303 9.6 81550.3 -1813.7

2304 9.5 81552.7 -1812.6  
2305 9.6 81556.3 -1810.9  
2306 9.1 81602.8 -1847.7  
2307 9.5 81624.8 -1808.0  
2308 9.0 81631.2 -1815.4  
2309 8.6 81643.2 -1814.4  
2310 8.2 81646.5 -1829.3  
2311 9.1 81653.2 -1819.1  
2312 9.1 81701.9 -1838.5  
2313 8.8 81705.3 -1851.7  
  
2314 9.8 81712.4 -1831.2  
2315 9.7 81713.7 -1814.5  
2316 9.2 81721.6 -1833.7  
2317 9.1 81722.3 -1806.4  
2318 9.1 81724.7 -1808.4  
2319 7.2 81738.2 -1839.9  
2320 9.2 81749.8 -1835.6  
2321 9.2 81807.7 -1803.0  
2322 10.1 81808.4 -1823.4  
2323 9.5 81823.9 -1836.2  
  
2324 8.5 81825.2 -1816.8  
2325 9.8 81844.6 -1816.8  
2326 9.6 81850.0 -1853.8  
2327 9.5 81858.5 -1849.3  
2328 9.4 81902.9 -1824.9  
2329 9.4 81904.8 -1834.7  
2330 9.3 81904.9 -1830.3  
2331 8.5 81919.3 -1841.5  
2332 9.8 81922.5 -1833.0  
2333 9.1 81928.7 -1851.1  
  
2334 9.1 81937.7 -1807.4  
2335 9.4 81951.1 -1856.2  
2336 9.8 81955.8 -1806.2  
2337 9.1 82000.2 -1850.6  
2338 9.1 82001.7 -1819.1  
2339 5.5 82001.8 -1845.4  
2340 8.0 82011.6 -1822.7  
2341 9.1 82011.8 -1841.7  
2342 8.8 82017.4 -1815.7  
2343 9.5 82017.7 -1858.6  
  
2344 8.9 82023.2 -1829.4  
2345 9.1 82034.3 -1843.8  
2346 9.8 82029.1 -1870.8  
2347 9.6 82044.8 -1858.7  
2348 9.5 82116.1 -1812.1  
2349 9.5 82120.6 -1808.4  
2350 9.6 82126.1 -1828.1  
2351 9.8 82126.4 -1830.9  
2352 9.4 82128.6 -1813.4  
2353 9.4 82144.1 -1857.5  
  
2354 9.0 82154.1 -1857.8  
2355 9.4 82201.7 -1840.0  
2356 9.4 82203.2 -1801.4  
2357 9.5 82211.6 -1854.5  
2358 10.1 82214.2 -1822.7  
2359 10.1 82219.4 -1805.3  
2360 9.4 82219.8 -1807.3  
2361 9.8 82236.6 -1858.7  
2362 9.0 82240.6 -1819.4  
2363 9.8 82257.0 -1829.9  
  
2364 7.5 82257.1 -1816.5  
2365 9.8 82307.6 -1814.0  
2366 9.4 82308.7 -1843.9  
2367 9.5 82317.5 -1855.0  
2368 9.5 82319.7 -1836.9  
2369 9.4 82333.8 -1822.7  
2370 8.8 82351.0 -1856.8  
2371 9.3 82355.1 -1810.2  
2372 9.1 82356.6 -1846.5  
2373 8.7 82411.1 -1852.6  
  
2374 9.3 82421.5 -1835.0  
2375 9.7 82423.1 -1833.4  
2376 9.2 82430.1 -1834.0  
2377 9.0 82441.9 -1803.1  
2378 9.0 82443.1 -1800.4  
2379 8.0 82443.8 -1818.5  
2380 9.4 82450.0 -1809.5  
2381 9.5 82510.0 -1807.3  
2382 9.0 82536.6 -1842.4  
2383 9.4 82539.2 -1839.0  
  
2384 9.4 82546.4 -1820.5  
2385 9.5 82555.0 -1851.1  
2386 9.5 82556.2 -1831.5  
2387 9.4 82556.6 -1827.4  
2388 9.0 82606.5 -1805.0  
2389 9.5 82609.0 -1856.2  
2390 9.3 82610.4 -1831.4  
2391 9.0 82621.2 -1836.1  
2392 9.8 82634.1 -1838.4  
2393 9.0 82644.4 -1821.2

2394 9.1 82714.9 -1817.0  
2395 9.8 82725.0 -1801.8  
2396 10.1 82726.5 -1809.0  
2397 8.8 82808.3 -1828.4  
2398 9.1 82809.9 -1818.3  
2399 9.0 82810.7 -1819.1  
2400 9.0 82813.4 -1815.2  
2401 9.0 82822.9 -1816.5  
2402 9.3 82824.7 -1827.6  
2403 10.1 82841.4 -1855.7  
  
2404 7.8 82845.7 -1832.2  
2405 9.4 82900.9 -1802.9  
2406 9.0 82910.0 -1834.3  
2407 10.1 82914.4 -1826.6  
2408 9.0 82921.4 -1816.1  
2409 9.1 82930.0 -1813.8  
2410 9.7 82941.4 -1815.1  
2411 9.5 82941.5 -1846.9  
2412 9.5 83001.4 -1816.0  
2413 9.5 83003.5 -1804.2  
  
2414 9.8 83008.8 -1825.5  
2415 9.4 83011.7 -1833.3  
2416 6.8 83022.5 -1810.8  
2417 9.3 83034.9 -1853.3  
2418 9.8 83036.3 -1825.0  
2419 9.1 83049.5 -1841.9  
2420 9.7 83055.1 -1833.8  
2421 9.8 83110.9 -1854.3  
2422 9.8 83127.3 -1817.5  
2423 9.8 83200.3 -1804.5  
  
2424 9.4 83210.6 -1837.1  
2425 9.1 83221.8 -1812.4  
2426 9.5 83222.4 -1850.4  
2427 9.6 83225.1 -1826.0  
2428 9.4 83245.4 -1801.6  
2429 8.5 83252.3 -1821.1  
2430 9.7 83300.5 -1832.9  
2431 9.8 83315.8 -1817.7  
2432 9.3 83324.4 -1852.5  
2433 10.1 83327.6 -1822.4  
  
2434 9.3 83328.9 -1854.3  
2435 9.0 83332.8 -1806.4  
2436 9.0 83351.9 -1847.2  
2437 8.5 83355.8 -1856.4  
2438 8.4 83357.7 -1840.9  
2439 9.4 83358.5 -1843.3  
2440 9.0 83412.1 -1804.2  
2441 9.6 83421.5 -1822.5  
2442 9.4 83427.2 -1830.3  
2443 9.5 83433.4 -1801.0  
  
2444 9.1 83442.0 -1835.7  
2445 9.0 83445.5 -1839.5  
2446 8.0 83448.3 -1856.5  
2447 9.4 83504.4 -1812.6  
2448 9.8 83509.3 -1808.4  
2449 9.8 83536.6 -1841.4  
2450 9.8 83600.7 -1807.6  
2451 9.3 83603.9 -1853.5  
2452 9.4 83616.3 -1805.8  
2453 9.5 83622.2 -1820.3  
  
2454 9.8 83629.8 -1808.7  
2455 9.3 83712.3 -1828.2  
2456 9.3 83714.1 -1825.8  
2457 9.2 83718.4 -1842.9  
2458 9.3 83719.3 -1844.1  
2459 9.5 83726.3 -1802.9  
2460 9.8 83736.7 -1827.2  
2461 9.6 83746.6 -1821.9  
2462 8.7 83751.2 -1833.2  
2463 9.5 83805.7 -1825.6  
  
2464 9.1 83834.4 -1845.7  
2465 9.8 83840.6 -1822.8  
2466 9.0 83848.8 -1800.3  
2467 9.4 83854.0 -1826.3  
2468 9.8 83920.9 -1819.5  
2469 8.6 83926.4 -1843.0  
2470 8.0 83938.8 -1837.9  
2471 9.4 83940.2 -1848.7  
2472 9.3 83944.7 -1803.2  
2473 9.4 84006.8 -1819.5  
  
2474 6.2 84008.6 -1813.7  
2475 9.4 84010.8 -1844.7  
2476 9.8 84020.7 -1809.3  
2477 9.1 84030.2 -1818.0  
2478 8.3 84040.6 -1817.9  
2479 9.7 84051.1 -1816.6  
2480 9.4 84057.4 -1807.2  
2481 8.6 84057.7 -1810.6  
2482 9.8 84058.0 -1825.9  
2483 9.4 84111.1 -1857.7

2484 9.3 84114.4 -1828.5  
2485 9.4 84131.2 -1832.7  
2486 9.8 84136.7 -1823.3  
2487 8.0 84143.8 -1829.9  
2488 8.9 84159.2 -1852.2  
2489 9.1 84220.1 -1814.0  
2490 9.2 84226.3 -1802.4  
2491 9.5 84250.4 -1802.9  
2492 9.0 84255.8 -1819.0  
2493 9.2 84304.7 -1822.5  
  
2494 9.8 84305.4 -1804.2  
2495 8.5 84312.9 -1841.8  
2496 9.5 84316.8 -1851.8  
2497 8.8 84318.9 -1840.7  
2498 9.6 84321.3 -1847.2  
2499 9.4 84334.4 -1844.2  
2500 9.2 84341.8 -1816.1  
2501 9.5 84349.2 -1829.3  
2502 9.8 84344.2 -1819.9  
2503 9.5 84449.3 -1803.4  
  
2504 9.4 84510.4 -1837.0  
2505 9.3 84514.2 -1814.3  
2506 7.3 84539.5 -1804.4  
2507 8.7 84548.1 -1858.5  
2508 10.1 84559.2 -1803.5  
2509 9.5 84606.3 -1848.3  
2510 9.5 84628.2 -1833.9  
2511 9.3 84629.2 -1816.1  
2512 9.5 84725.8 -1817.0  
2513 9.4 84733.6 -1854.4  
  
2514 9.5 84741.6 -1810.2  
2515 8.0 84742.1 -1813.9  
2516 9.0 84819.2 -1843.9  
2517 7.8 84822.6 -1815.7  
2518 9.3 84830.6 -1851.1  
2519 9.8 84834.7 -1841.3  
2520 8.9 84852.5 -1821.6  
2521 9.4 84905.8 -1840.5  
2522 9.8 84928.3 -1819.5  
2523 9.5 84932.3 -1835.6  
  
2524 9.5 84933.2 -1848.8  
2525 9.1 84952.6 -1856.8  
2526 9.8 84956.9 -1812.5  
2527 8.2 85008.0 -1854.8  
2528 8.3 85059.8 -1834.9  
2529 9.3 85109.7 -1834.9  
2530 7.0 85112.2 -1819.1  
2531 9.2 85119.5 -1846.1  
2532 9.2 85131.2 -1835.7  
2533 9.5 85221.9 -1802.6  
  
2534 9.6 85237.6 -1825.6  
2535 9.8 85259.8 -1810.0  
2536 6.0 85302.4 -1830.3  
2537 9.8 85309.5 -1831.0  
2538 9.6 85310.2 -1840.3  
2539 9.8 85316.7 -1858.5  
2540 9.7 85318.9 -1852.4  
2541 10.1 85325.1 -1813.1  
2542 8.9 85349.8 -1843.5  
2543 9.1 85352.6 -1859.3  
  
2544 9.8 85405.2 -1810.9  
2545 9.1 85422.6 -1830.1  
2546 7.0 85431.3 -1846.4  
2547 9.5 85452.0 -1811.0  
2548 9.4 85453.4 -1835.8  
2549 9.8 85506.5 -1824.5  
2550 9.5 85507.7 -1800.2  
2551 10.1 85517.8 -1826.0  
2552 9.8 85523.9 -1801.7  
2553 9.2 85605.4 -1817.4  
  
2554 9.1 85606.1 -1821.0  
2555 8.8 85633.3 -1815.5  
2556 9.2 85634.4 -1810.7  
2557 9.1 85636.7 -1849.3  
2558 9.0 85647.9 -1813.8  
2559 10.1 85710.8 -1815.9  
2560 10.1 85720.9 -1825.0  
2561 9.8 85725.4 -1828.6  
2562 9.8 85726.0 -1835.0  
2563 9.5 85749.1 -1856.6  
  
2564 9.6 85756.8 -1812.4  
2565 8.5 85819.2 -1844.7  
2566 9.0 85834.1 -1853.0  
2567 9.6 85901.3 -1809.0  
2568 9.4 85914.3 -1839.1  
2569 9.5 85921.4 -1838.7  
2570 8.5 85928.2 -1845.2  
2571 9.5 85929.1 -1837.1  
2572 9.8 85942.5 -1808.3  
2573 8.6 85949.3 -1842.2

-18 2573 8h59m



|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|----------|---------|
| 2574 | 9.3 | 90006.8 | -1838.9 | 2664 | 9.0 | 91709.1 | -1842.6 | 2754 | 10. | 93345.6 | -1836.4 | 2844 | 8.3 | 95945.4  | -1836.1 |
| 2575 | 9.5 | 90016.7 | -1820.0 | 2665 | 9.1 | 91716.2 | -1827.2 | 2755 | 10. | 93349.1 | -1832.8 | 2845 | 9.7 | 95959.8  | -1857.2 |
| 2576 | 9.5 | 90017.2 | -1816.4 | 2666 | 9.5 | 91730.0 | -1823.0 | 2756 | 10. | 93349.6 | -1845.5 | 2846 | 9.4 | 100021.0 | -1832.2 |
| 2577 | 9.6 | 90055.0 | -1854.0 | 2667 | 9.8 | 91730.5 | -1814.4 | 2757 | 10. | 93350.5 | -1824.2 | 2847 | 9.6 | 100022.1 | -1820.6 |
| 2578 | 9.0 | 90056.5 | -1807.5 | 2668 | 9.0 | 91756.6 | -1858.0 | 2758 | 9.9 | 93445.8 | -1811.0 | 2848 | 8.0 | 100114.3 | -1851.3 |
| 2579 | 9.7 | 90119.6 | -1809.8 | 2669 | 10. | 91808.7 | -1857.3 | 2759 | 9.3 | 93511.9 | -1822.7 | 2849 | 9.8 | 100123.0 | -1806.0 |
| 2580 | 9.7 | 90122.4 | -1830.1 | 2670 | 9.4 | 91813.4 | -1833.6 | 2760 | 9.0 | 93535.6 | -1807.0 | 2850 | 10. | 100124.2 | -1815.6 |
| 2581 | 9.7 | 90124.0 | -1833.4 | 2671 | 9.5 | 91856.6 | -1840.7 | 2761 | 9.6 | 93542.1 | -1808.2 | 2851 | 9.0 | 100133.1 | -1802.9 |
| 2582 | 9.8 | 90150.3 | -1805.8 | 2672 | 9.4 | 91859.1 | -1840.5 | 2762 | 9.1 | 93547.4 | -1847.8 | 2852 | 9.8 | 100226.9 | -1825.5 |
| 2583 | 8.9 | 90155.0 | -1852.9 | 2673 | 9.4 | 91910.5 | -1803.3 | 2763 | 9.5 | 93601.3 | -1852.2 | 2853 | 8.3 | 100303.7 | -1808.9 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
| 2584 | 9.1 | 90214.2 | -1816.7 | 2674 | 9.1 | 91926.6 | -1816.1 | 2764 | 9.0 | 93618.3 | -1851.8 | 2854 | 10. | 100327.5 | -1837.2 |
| 2585 | 9.1 | 90224.7 | -1827.1 | 2675 | 9.4 | 91929.8 | -1859.6 | 2765 | 9.9 | 93648.7 | -1859.3 | 2855 | 9.2 | 100348.1 | -1814.5 |
| 2586 | 8.0 | 90227.1 | -1850.3 | 2676 | 10. | 91952.5 | -1836.6 | 2766 | 9.8 | 93716.8 | -1846.0 | 2856 | 9.0 | 100348.9 | -1800.1 |
| 2587 | 9.0 | 90238.7 | -1807.5 | 2677 | 9.5 | 91953.6 | -1811.2 | 2767 | 8.5 | 93717.7 | -1852.0 | 2857 | 9.5 | 100352.8 | -1846.9 |
| 2588 | 9.6 | 90241.4 | -1834.5 | 2678 | 7.1 | 92004.7 | -1831.5 | 2768 | 9.5 | 93731.1 | -1829.1 | 2858 | 10. | 100406.6 | -1811.5 |
| 2589 | 9.9 | 90251.6 | -1830.1 | 2679 | 9.1 | 92007.0 | -1817.0 | 2769 | 9.8 | 93749.9 | -1821.8 | 2859 | 9.8 | 100407.4 | -1829.7 |
| 2590 | 9.4 | 90252.1 | -1808.5 | 2680 | 9.4 | 92034.9 | -1804.5 | 2770 | 7.8 | 93801.3 | -1847.2 | 2860 | 9.0 | 100411.0 | -1839.5 |
| 2591 | 9.8 | 90258.6 | -1816.7 | 2681 | 9.0 | 92039.7 | -1830.8 | 2771 | 8.3 | 93852.2 | -1855.0 | 2861 | 7.0 | 100424.7 | -1814.5 |
| 2592 | 8.7 | 90303.7 | -1827.4 | 2682 | 9.7 | 92040.5 | -1822.5 | 2772 | 8.0 | 93859.0 | -1802.1 | 2862 | 9.3 | 100433.1 | -1809.1 |
| 2593 | 10. | 90308.2 | -1813.4 | 2683 | 9.8 | 92046.3 | -1850.1 | 2773 | 9.8 | 93916.4 | -1828.5 | 2863 | 9.2 | 100440.4 | -1824.5 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
| 2594 | 9.2 | 90309.1 | -1856.9 | 2684 | 9.8 | 92117.2 | -1842.5 | 2774 | 9.5 | 93923.9 | -1817.2 | 2864 | 9.7 | 100509.4 | -1832.9 |
| 2595 | 9.5 | 90310.2 | -1812.0 | 2685 | 9.8 | 92122.3 | -1829.9 | 2775 | 10. | 93944.5 | -1806.4 | 2865 | 9.8 | 100518.1 | -1856.8 |
| 2596 | 8.7 | 90311.0 | -1803.5 | 2686 | 9.3 | 92132.4 | -1821.9 | 2776 | 9.3 | 93952.8 | -1821.1 | 2866 | 8.2 | 100522.7 | -1850.4 |
| 2597 | 9.1 | 90339.0 | -1844.9 | 2687 | 8.5 | 92150.3 | -1857.2 | 2777 | 9.5 | 93958.2 | -1800.2 | 2867 | 9.4 | 100528.6 | -1831.5 |
| 2598 | 9.8 | 90355.5 | -1815.4 | 2688 | 10. | 92156.3 | -1805.4 | 2778 | 9.5 | 94018.1 | -1838.0 | 2868 | 9.3 | 100534.5 | -1859.8 |
| 2599 | 9.6 | 90402.1 | -1839.9 | 2689 | 9.7 | 92226.4 | -1801.8 | 2779 | 9.4 | 94018.7 | -1856.3 | 2869 | 9.0 | 100541.9 | -1839.0 |
| 2600 | 9.5 | 90402.8 | -1844.1 | 2690 | 8.5 | 92257.3 | -1830.9 | 2780 | 10. | 94029.7 | -1831.5 | 2870 | 6.8 | 100544.8 | -1825.9 |
| 2601 | 9.5 | 90414.4 | -1853.0 | 2691 | 9.5 | 92310.1 | -1845.8 | 2781 | 9.5 | 94033.4 | -1802.2 | 2871 | 7.0 | 100606.6 | -1858.2 |
| 2602 | 8.5 | 90420.9 | -1853.6 | 2692 | 10. | 92310.7 | -1833.4 | 2782 | 9.5 | 94037.1 | -1848.6 | 2872 | 8.8 | 100649.1 | -1827.3 |
| 2603 | 9.5 | 90452.6 | -1817.8 | 2693 | 9.1 | 92314.8 | -1852.1 | 2783 | 10. | 94039.0 | -1823.4 | 2873 | 9.9 | 100706.7 | -1829.9 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
| 2604 | 9.7 | 90511.7 | -1809.7 | 2694 | 9.1 | 92316.5 | -1801.2 | 2784 | 9.7 | 94040.9 | -1818.2 | 2874 | 9.5 | 100712.4 | -1823.7 |
| 2605 | 9.5 | 90550.4 | -1856.2 | 2695 | 9.1 | 92321.3 | -1809.2 | 2785 | 9.1 | 94104.7 | -1846.8 | 2875 | 9.5 | 100715.6 | -1816.1 |
| 2606 | 9.7 | 90559.8 | -1859.1 | 2696 | 9.8 | 92330.9 | -1829.8 | 2786 | 9.6 | 94110.1 | -1858.5 | 2876 | 9.8 | 100729.3 | -1836.4 |
| 2607 | 8.5 | 90613.0 | -1845.2 | 2697 | 8.0 | 92331.9 | -1856.0 | 2787 | 8.5 | 94115.8 | -1815.0 | 2877 | 9.5 | 100749.0 | -1858.6 |
| 2608 | 9.1 | 90617.1 | -1807.5 | 2698 | 9.0 | 92342.7 | -1858.1 | 2788 | 10. | 94133.3 | -1842.5 | 2878 | 9.1 | 100809.7 | -1846.0 |
| 2609 | 9.0 | 90621.0 | -1812.3 | 2699 | 9.4 | 92401.3 | -1827.5 | 2789 | 9.5 | 94138.8 | -1813.8 | 2879 | 8.3 | 100839.4 | -1812.8 |
| 2610 | 9.6 | 90702.9 | -1829.1 | 2700 | 10. | 92409.6 | -1829.8 | 2790 | 9.3 | 94139.9 | -1833.2 | 2880 | 9.6 | 100859.8 | -1837.6 |
| 2611 | 9.5 | 90703.4 | -1823.8 | 2701 | 10. | 92422.0 | -1808.7 | 2791 | 9.8 | 94140.8 | -1819.8 | 2881 | 9.5 | 100909.2 | -1807.1 |
| 2612 | 9.3 | 90736.3 | -1801.4 | 2702 | 9.8 | 92441.0 | -1836.4 | 2792 | 7.2 | 94158.3 | -1838.4 | 2882 | 9.5 | 100911.8 | -1851.7 |
| 2613 | 8.5 | 90740.1 | -1804.5 | 2703 | 9.5 | 92500.4 | -1825.3 | 2793 | 10. | 94217.2 | -1814.9 | 2883 | 9.0 | 100921.0 | -1856.6 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
| 2614 | 9.5 | 90745.0 | -1842.7 | 2704 | 9.5 | 92510.5 | -1836.1 | 2794 | 8.2 | 94218.1 | -1858.4 | 2884 | 9.8 | 100925.3 | -1812.8 |
| 2615 | 9.8 | 90747.0 | -1812.5 | 2705 | 9.6 | 92515.6 | -1830.1 | 2795 | 9.5 | 94313.3 | -1810.9 | 2885 | 7.0 | 100936.7 | -1825.0 |
| 2616 | 9.3 | 90812.5 | -1824.3 | 2706 | 10. | 92533.8 | -1816.9 | 2796 | 9.9 | 94348.8 | -1834.0 | 2886 | 9.5 | 100937.7 | -1835.9 |
| 2617 | 9.7 | 90813.1 | -1850.3 | 2707 | 8.7 | 92534.2 | -1849.3 | 2797 | 9.6 | 94420.7 | -1824.7 | 2887 | 10. | 100953.8 | -1819.3 |
| 2618 | 7.2 | 90834.2 | -1859.7 | 2708 | 6.2 | 92535.8 | -1845.6 | 2798 | 9.4 | 94432.2 | -1835.0 | 2888 | 9.8 | 101016.5 | -1808.1 |
| 2619 | 10. | 90846.8 | -1824.8 | 2709 | 9.7 | 92555.3 | -1838.7 | 2799 | 8.0 | 94442.5 | -1859.2 | 2889 | 8.7 | 101035.6 | -1846.4 |
| 2620 | 9.8 | 90848.9 | -1848.8 | 2710 | 10. | 92617.3 | -1819.8 | 2800 | 8.5 | 94451.6 | -1846.7 | 2890 | 8.8 | 101058.5 | -1814.2 |
| 2621 | 10. | 90852.0 | -1836.2 | 2711 | 9.5 | 92622.9 | -1805.9 | 2801 | 9.1 | 94505.0 | -1850.7 | 2891 | 10. | 101128.6 | -1830.2 |
| 2622 | 9.8 | 90909.4 | -1845.5 | 2712 | 9.5 | 92628.4 | -1835.7 | 2802 | 9.5 | 94540.6 | -1826.2 | 2892 | 9.4 | 101146.1 | -1829.1 |
| 2623 | 9.5 | 90910.4 | -1828.3 | 2713 | 9.5 | 92629.6 | -1856.6 | 2803 | 9.2 | 94548.2 | -1830.1 | 2893 | 9.4 | 101223.8 | -1806.8 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
| 2624 | 9.8 | 90920.0 | -1836.9 | 2714 | 8.6 | 92630.5 | -1814.8 | 2804 | 9.8 | 94606.9 | -1859.8 | 2894 | 8.4 | 101226.8 | -1803.7 |
| 2625 | 9.2 | 90935.2 | -1855.9 | 2715 | 9.0 | 92651.1 | -1851.8 | 2805 | 10. | 94626.9 | -1856.2 | 2895 | 10. | 101239.2 | -1847.5 |
| 2626 | 9.1 | 90937.9 | -1843.8 | 2716 | 9.8 | 92654.0 | -1823.5 | 2806 | 7.7 | 94644.0 | -1848.0 | 2896 | 10. | 101257.7 | -1825.6 |
| 2627 | 9.5 | 90940.5 | -1801.5 | 2717 | 9.1 | 92712.3 | -1815.9 | 2807 | 9.6 | 94655.3 | -1802.1 | 2897 | 9.6 | 101307.5 | -1812.6 |
| 2628 | 9.9 | 90941.1 | -1821.4 | 2718 | 9.0 | 92712.5 | -1821.1 | 2808 | 9.8 | 94741.4 | -1851.3 | 2898 | 10. | 101320.2 | -1849.8 |
| 2629 | 7.0 | 90944.8 | -1850.9 | 2719 | 9.7 | 92714.5 | -1827.9 | 2809 | 9.2 | 94742.7 | -1818.3 | 2899 | 9.1 | 101324.1 | -1825.2 |
| 2630 | 9.8 | 91003.4 | -1838.8 | 2720 | 8.8 | 92719.7 | -1827.9 | 2810 | 5.5 | 94801.8 | -1819.5 | 2900 | 8.4 | 101331.8 | -1813.7 |
| 2631 | 9.5 | 91009.6 | -1804.5 | 2721 | 9.0 | 92725.3 | -1823.2 | 2811 | 9.2 | 94836.6 | -1809.3 | 2901 | 9.1 | 101341.0 | -1804.2 |
| 2632 | 9.2 | 91015.4 | -1830.8 | 2722 | 8.0 | 92738.8 | -1806.3 | 2812 | 9.8 | 94836.7 | -1846.5 | 2902 | 7.7 | 101350.3 | -1819.0 |
| 2633 | 9.8 | 91028.3 | -1843.1 | 2723 | 9.3 | 92745.8 | -1807.8 | 2813 | 9.2 | 94850.5 | -1821.8 | 2903 | 10. | 101411.0 | -1849.8 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
| 2634 | 10. | 91042.4 | -1813.9 | 2724 | 9.0 | 92805.5 | -1844.7 | 2814 | 7.5 | 94854.3 | -1859.6 | 2904 | 10. | 101438.1 | -1852.4 |
| 2635 | 10. | 91049.9 | -1820.1 | 2725 | 9.5 | 92832.3 | -1835.2 | 2815 | 10. | 94951.6 | -1836.2 | 2905 | 9.1 | 101456.4 | -1842.7 |
| 2636 | 8.5 | 91057.2 | -1857.0 | 2726 | 8.8 | 92838.1 | -1854.8 | 2816 | 9.4 | 94958.5 | -1814.7 | 2906 | 9.4 | 101456.7 | -1813.5 |
| 2637 | 9.5 | 91121.1 | -1827.4 | 2727 | 9.7 | 92847.2 | -1844.5 | 2817 | 9.5 | 95013.4 | -1850.4 | 2907 | 10. | 101502.5 | -1842.6 |
| 2638 | 8.8 | 91125.5 | -1838.2 | 2728 | 6.7 | 92849.0 | -1856.2 | 2818 | 9.3 | 95014.6 | -1833.1 | 2908 | 9.7 | 101503.6 | -1816.5 |
| 2639 | 9.0 | 91136.2 | -1851.8 | 2729 | 9.2 | 92853.1 | -1856.4 | 2819 | 9.9 | 95021.0 | -1823.2 | 2909 | 9.2 | 101508.1 | -1851.5 |
| 2640 | 9.8 | 91158.3 | -1841.4 | 2730 | 9.5 | 92904.9 | -1802.7 | 2820 | 9.5 | 95145.1 | -1832.7 | 2910 | 9.2 | 101516.1 | -1844.2 |
| 2641 | 10. | 91159.7 | -1822.8 | 2731 | 9.1 | 92912.7 | -1814.7 | 2821 | 9.5 | 95146.3 | -1848.4 | 2911 | 9.7 | 101537.7 | -1805.0 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |



-18 2934 10h19m

2934 9.4 101947.2 -1833.9  
2935 9.4 102013.4 -1845.5  
2936 8.9 102044.1 -1830.1  
2937 8.8 102047.1 -1820.3  
2938 8.3 102054.5 -1818.7  
2939 9.2 102100.0 -1827.0  
2940 9.6 102113.6 -1817.1  
2941 9.1 102126.5 -1819.6  
2942 9.4 102133.3 -1818.5  
2943 6.5 102138.3 -1846.9

2944 9.5 102158.8 -1842.6  
2945 9.9 102212.2 -1839.0  
2946 9.2 102224.1 -1834.8  
2947 9.0 102225.7 -1840.6  
2948 9.7 102234.6 -1820.9  
2949 8.3 102254.4 -1811.8  
2950 9.5 102258.5 -1808.7  
2951 10.1 102308.4 -1801.9  
2952 9.5 102320.0 -1802.4  
2953 9.5 102330.4 -1818.0

2954 8.2 102401.9 -1811.9  
2955 9.2 102441.5 -1820.7  
2956 8.9 102456.5 -1823.2  
2957 9.0 102510.7 -1854.7  
2958 9.8 102516.4 -1820.3  
2959 8.3 102522.9 -1818.2  
2960 8.2 102543.4 -1827.2  
2961 9.5 102544.3 -1812.8  
2962 9.1 102549.0 -1823.3  
2963 10.1 102557.3 -1814.4

2964 10.1 102559.3 -1838.0  
2965 9.5 102604.1 -1843.4  
2966 9.1 102624.3 -1807.9  
2967 9.5 102638.6 -1843.0  
2968 10.1 102640.2 -1809.2  
2969 9.1 102645.2 -1827.8  
2970 9.8 102735.5 -1840.7  
2971 9.4 102751.8 -1817.0  
2972 10.1 102755.7 -1816.1  
2973 9.8 102813.8 -1832.2

2974 10.1 102814.4 -1822.2  
2975 9.7 102816.3 -1815.2  
2976 9.3 102846.5 -1855.4  
2977 9.3 102850.5 -1851.1  
2978 9.5 102851.5 -1857.5  
2979 9.1 102905.1 -1814.9  
2980 9.0 103009.4 -1813.5  
2981 9.3 103016.5 -1847.2  
2982 8.3 103032.4 -1836.3  
2983 9.5 103038.9 -1853.0

2984 9.3 103045.2 -1823.1  
2985 9.2 103125.9 -1859.5  
2986 9.7 103134.5 -1806.3  
2987 8.9 103135.7 -1852.8  
2988 10.1 103136.4 -1841.6  
2989 8.3 103149.9 -1850.8  
2990 8.8 103151.7 -1822.1  
2991 9.5 103157.1 -1808.0  
2992 9.2 103208.4 -1858.6  
2993 9.5 103209.9 -1855.7

2994 10.1 103232.3 -1855.7  
2995 8.6 103312.2 -1802.0  
2996 9.7 103323.0 -1835.4  
2997 8.7 103332.3 -1850.5  
2998 9.9 103350.8 -1847.6  
2999 9.5 103353.6 -1816.9  
3000 9.5 103417.2 -1840.6  
3001 9.1 103440.3 -1850.5  
3002 9.5 103451.9 -1830.0  
3003 9.2 103453.2 -1836.2

3004 9.4 103513.3 -1847.4  
3005 9.6 103528.2 -1846.8  
3006 9.7 103535.2 -1831.0  
3007 9.6 103620.8 -1801.2  
3008 8.0 103625.8 -1806.4  
3009 9.5 103644.9 -1817.3  
3010 9.3 103645.7 -1833.7  
3011 9.3 103654.3 -1806.2  
3012 9.4 103711.6 -1810.4  
3013 7.5 103717.5 -1822.5

3014 9.3 103740.6 -1840.6  
3015 10.1 103741.0 -1821.0  
3016 9.2 103815.2 -1859.1  
3017 8.5 103816.7 -1856.2  
3018 8.8 103848.7 -1856.6  
3019 9.8 103850.7 -1820.2  
3020 8.4 103852.4 -1853.0  
3021 9.8 103854.8 -1849.1  
3022 7.0 103926.6 -1859.9  
3023 7.0 103928.2 -1806.2

3024 9.8 103929.5 -1841.0  
3025 8.8 103938.6 -1857.1  
3026 9.8 104001.3 -1824.7  
3027 9.0 104009.2 -1817.5  
3028 9.3 104020.0 -1838.5  
3029 9.8 104112.1 -1825.6  
3030 9.6 104114.2 -1821.9  
3031 8.6 104117.5 -1827.7  
3032 10.1 104126.5 -1853.9  
3033 9.0 104140.5 -1851.5

3034 9.3 104214.7 -1845.0  
3035 9.3 104214.9 -1849.2  
3036 9.5 104255.5 -1831.5  
3037 9.8 104315.6 -1802.7  
3038 9.4 104323.6 -1810.7  
3039 9.7 104335.1 -1810.7  
3040 9.4 104402.9 -1856.1  
3041 10.1 104407.2 -1840.5  
3042 9.0 104407.2 -1820.5  
3043 9.0 104411.6 -1811.9

3044 8.3 104517.5 -1807.3  
3045 9.5 104529.8 -1834.7  
3046 8.9 104531.3 -1836.0  
3047 9.7 104546.0 -1808.1  
3048 7.5 104548.3 -1847.5  
3049 9.8 104607.7 -1853.4  
3050 8.8 104631.1 -1821.9  
3051 9.0 104638.2 -1839.4  
3052 9.5 104656.0 -1826.0  
3053 9.0 104711.2 -1825.1

3054 9.5 104719.8 -1855.2  
3055 9.8 104735.7 -1837.2  
3056 8.7 104747.3 -1833.1  
3057 10.1 104750.1 -1820.8  
3058 10.1 104812.9 -1808.3  
3059 9.5 104837.7 -1835.0  
3060 9.4 104901.7 -1841.6  
3061 8.6 104907.2 -1844.7  
3062 10.1 104928.6 -1852.1  
3063 9.5 104939.0 -1801.1

3064 9.8 105000.8 -1810.7  
3065 9.1 105032.9 -1825.5  
3066 10.1 105044.8 -1810.9  
3067 9.0 105047.1 -1857.7  
3068 9.5 105049.8 -1813.2  
3069 8.8 105108.6 -1835.5  
3070 9.8 105120.6 -1848.5  
3071 9.3 105139.2 -1806.4  
3072 6.8 105149.5 -1849.5  
3073 9.3 105158.4 -1844.5

3074 8.7 105209.5 -1842.3  
3075 9.5 105232.4 -1802.6  
3076 9.7 105254.5 -1831.6  
3077 9.4 105308.3 -1850.0  
3078 8.8 105308.4 -1812.4  
3079 7.1 105332.0 -1834.1  
3080 9.2 105353.1 -1833.4  
3081 9.2 105409.5 -1846.2  
3082 9.5 105418.7 -1803.0  
3083 10.1 105435.2 -1818.0

3084 10.1 105448.9 -1845.8  
3085 9.5 105456.4 -1839.7  
3086 9.8 105511.9 -1841.7  
3087 9.0 105546.4 -1855.9  
3088 9.5 105602.7 -1806.1  
3089 9.3 105604.4 -1844.9  
3090 10.1 105639.1 -1839.5  
3091 9.5 105639.8 -1834.1  
3092 9.5 105641.3 -1832.9  
3093 6.5 105646.3 -1852.0

3094 10.1 105654.2 -1813.7  
3095 9.3 105710.4 -1830.6  
3096 9.0 105719.3 -1852.7  
3097 9.3 105733.1 -1813.4  
3098 9.4 105747.3 -1844.1  
3099 9.8 105844.6 -1813.2  
3100 9.8 105845.5 -1830.7  
3101 9.1 105851.1 -1817.8  
3102 9.5 105905.0 -1800.4  
3103 8.8 105919.8 -1800.4

3104 9.3 105939.6 -1805.2  
3105 9.5 105952.7 -1837.9  
3106 9.5 106020.2 -1830.5  
3107 9.5 106026.0 -1801.9  
3108 9.3 106044.8 -1825.7  
3109 9.0 106133.1 -1825.4  
3110 6.3 106148.1 -1837.7  
3111 9.8 106155.5 -1812.5  
3112 9.1 106159.1 -1843.0  
3113 8.6 106159.9 -1804.2

3114 9.3 110216.4 -1813.0  
3115 9.5 110222.1 -1847.7  
3116 10.1 110236.5 -1821.8  
3117 9.7 110254.9 -1803.7  
3118 9.8 110257.9 -1829.2  
3119 10.1 110346.4 -1810.3  
3120 9.9 110349.3 -1815.3  
3121 9.5 110417.0 -1840.8  
3122 9.8 110422.8 -1846.8  
3123 9.4 110433.4 -1808.5

3124 9.8 110448.5 -1858.4  
3125 10.1 110451.4 -1823.7  
3126 9.6 110502.3 -1801.4  
3127 8.8 110525.3 -1811.6  
3128 8.3 110527.7 -1853.9  
3129 10.1 110613.4 -1840.0  
3130 9.5 110618.3 -1819.5  
3131 9.0 110652.5 -1846.8  
3132 9.7 110653.6 -1858.1  
3133 8.6 110718.4 -1844.5

3134 9.4 110731.9 -1841.4  
3135 8.5 110744.9 -1800.4  
3136 9.8 110748.8 -1840.6  
3137 8.3 110754.9 -1848.6  
3138 9.5 110755.7 -1812.4  
3139 9.4 110800.9 -1855.9  
3140 9.4 110805.3 -1802.5  
3141 7.0 110806.9 -1850.5  
3142 8.8 110814.8 -1838.9  
3143 8.7 110857.8 -1848.5

3144 9.7 110928.9 -1831.2  
3145 10.1 110958.5 -1855.8  
3146 9.5 111000.0 -1837.7  
3147 8.6 111013.6 -1801.7  
3148 9.5 111032.4 -1825.0  
3149 9.5 111033.1 -1820.0  
3150 9.5 111054.8 -1810.6  
3151 9.1 111116.8 -1827.0  
3152 9.5 111201.5 -1802.8  
3153 9.7 111248.5 -1839.8

3154 7.5 111257.9 -1846.9  
3155 9.4 111305.3 -1846.1  
3156 8.5 111312.0 -1807.3  
3157 8.9 111339.4 -1829.6  
3158 9.5 111352.3 -1844.3  
3159 9.0 111424.5 -1810.5  
3160 9.5 111426.8 -1848.6  
3161 9.8 111506.0 -1828.7  
3162 9.2 111518.9 -1806.1  
3163 9.8 111556.7 -1814.5

3164 9.2 111605.5 -1819.2  
3165 9.8 111606.4 -1810.5  
3166 9.5 111639.9 -1802.6  
3167 8.5 111655.4 -1810.9  
3168 10.1 111706.1 -1839.5  
3169 9.0 111727.2 -1841.8  
3170 9.8 111728.9 -1819.6  
3171 9.5 111747.5 -1840.3  
3172 9.0 111857.6 -1817.0  
3173 9.5 111912.5 -1837.9

3174 9.0 111926.8 -1816.6  
3175 9.7 111933.2 -1824.9  
3176 9.8 111939.4 -1837.5  
3177 9.0 111947.0 -1839.2  
3178 6.9 111947.0 -1824.0  
3179 10.1 112028.7 -1809.8  
3180 9.1 112042.8 -1827.5  
3181 9.1 112044.2 -1816.5  
3182 8.7 112053.7 -1803.7  
3183 10.1 112130.9 -1840.5

3184 8.8 112148.6 -1859.7  
3185 9.8 112223.5 -1855.6  
3186 9.4 112228.7 -1825.3  
3187 9.4 112234.9 -1848.9  
3188 9.5 112257.9 -1847.8  
3189 9.6 112259.0 -1831.7  
3190 9.4 112305.9 -1853.8  
3191 9.4 112319.9 -1852.0  
3192 9.8 112335.6 -1802.4  
3193 9.1 112400.2 -1819.4

3194 9.2 112415.1 -1811.8  
3195 9.5 112451.0 -1811.8  
3196 9.7 112508.3 -1846.0  
3197 10.1 112521.3 -1844.6  
3198 8.5 112523.0 -1804.1  
3199 9.8 112525.1 -1816.8  
3200 9.4 112544.2 -1834.9  
3201 9.4 112557.8 -1841.6  
3202 9.8 112757.9 -1806.1  
3203 8.9 112813.7 -1843.9

-18 3293 11h53m

3204 9.3 112842.6 -1850.6  
3205 9.8 112853.4 -1831.0  
3206 9.8 112902.4 -1811.0  
3207 9.5 112908.8 -1830.9  
3208 8.9 112924.9 -1810.3  
3209 8.8 112931.8 -1828.4  
3210 9.8 112957.4 -1823.1  
3211 10.1 113005.1 -1836.8  
3212 9.1 113051.8 -1857.2  
3213 9.4 113053.0 -1806.8

3214 8.5 113056.8 -1834.7  
3215 8.8 113057.1 -1807.4  
3216 9.7 113119.5 -1845.5  
3217 9.8 113128.8 -1813.7  
3218 9.0 113222.0 -1843.1  
3219 9.0 113233.7 -1818.4  
3220 9.5 113206.9 -1849.5  
3221 8.5 113309.6 -1839.5  
3222 9.5 113415.0 -1847.5  
3223 8.4 113437.9 -1838.4

3224 9.5 113445.2 -1801.6  
3225 9.7 113445.4 -1853.8  
3226 9.4 113557.4 -1846.5  
3227 9.3 113553.5 -1812.1  
3228 9.9 113717.7 -1849.7  
3229 9.0 113746.4 -1805.2  
3230 9.8 113813.6 -1833.2  
3231 10.1 113820.0 -1820.8  
3232 10.1 113842.2 -1817.3  
3233 10.1 113852.6 -1808.9

3234 9.2 113902.9 -1802.8  
3235 8.7 113918.5 -1812.1  
3236 9.5 113919.3 -1843.4  
3237 8.0 113923.1 -1840.0  
3238 10.1 113923.8 -1851.9  
3239 9.2 113932.4 -1806.5  
3240 9.0 114004.3 -1807.9  
3241 8.0 114007.4 -1823.1  
3242 8.4 114025.3 -1835.5  
3243 8.8 114025.5 -1841.4

3244 8.9 114145.4 -1817.0  
3245 9.6 114201.2 -1849.2  
3246 9.7 114211.5 -1849.5  
3247 8.8 114212.1 -1822.9  
3248 10.1 114222.7 -1803.0  
3249 10.1 114227.8 -1824.4  
3250 7.8 114255.0 -1848.0  
3251 9.8 114301.7 -1805.5  
3252 8.9 114306.6 -1852.8  
3253 9.5 114308.5 -1818.1

3254 9.9 114318.3 -1857.9  
3255 9.6 114345.5 -1823.6  
3256 9.1 114345.8 -1809.2  
3257 9.7 114346.7 -1826.1  
3258 8.9 114352.2 -1810.2  
3259 9.2 114402.7 -1809.3  
3260 8.5 114416.5 -1822.0  
3261 10.1 114420.9 -1835.9  
3262 9.4 114423.4 -1804.4  
3263 9.9 114426.6 -1802.9

3264 9.5 114435.7 -1813.3  
3265 7.5 114450.7 -1823.8  
3266 9.5 114517.4 -1827.8  
3267 10.1 114518.8 -1846.0  
3268 8.2 114520.3 -1822.6  
3269 8.5 114532.5 -1853.8  
3270 9.5 114631.3 -1857.5  
3271 10.1 114645.1 -1811.0  
3272 9.8 114645.9 -1813.6  
3273 9.8 114729.5 -1844.0

3274 9.5 114744.5 -1803.7  
3275 9.6 114759.8 -1850.1  
3276 9.7 114822.7 -1857.0  
3277 8.5 114912.7 -1858.8  
3278 9.8 114934.6 -1844.0  
3279 10.1 114937.0 -1828.7  
3280 10.1 114937.3 -1839.3  
3281 9.3 114951.0 -1824.6  
3282 10.1 114953.9 -1802.4  
3283 9.4 114957.7 -1850.4

3284 9.4 115025.2 -1851.7  
3285 7.7 115028.7 -1810.4  
3286 9.6 115034.1 -1831.8  
3287 9.1 115043.3 -1823.5  
3288 10.1 115059.6 -1849.0  
3289 10.1 115133.0 -1829.5  
3290 9.2 115216.3 -1805.2  
3291 9.5 115221.4 -1858.3  
3292 9.5 115247.5 -1823.7  
3293 10.1 115302.5 -1844.6



3294 9.7 115304.5 -1828.4  
 3295 5.7 115326.5 -1851.1  
 3296 9.3 115348.9 -1829.8  
 3297 9.2 115402.0 -1852.1  
 3298 9.2 115409.7 -1835.9  
 3299 8.8 115415.4 -1831.7  
 3300 9.3 115434.3 -1813.6  
 3301 9.7 115451.2 -1828.1  
 3302 9.5 115501.6 -1829.0  
 3303 9.0 115515.9 -1850.1

3304 9.4 115530.3 -1819.5  
 3305 9.2 115534.9 -1824.7  
 3306 10. 115551.7 -1835.1  
 3307 10. 115603.4 -1801.7  
 3308 9.9 115605.3 -1822.0  
 3309 9.0 115606.3 -1829.4  
 3310 9.4 115640.2 -1819.6  
 3311 9.5 115700.2 -1821.5  
 3312 9.5 115721.1 -1851.9  
 3313 8.9 115729.8 -1845.4

3314 9.0 115731.5 -1834.1  
 3315 9.5 115750.9 -1831.3  
 3316 9.5 115809.8 -1842.6  
 3317 10. 115815.6 -1802.6  
 3318 10. 115821.9 -1852.8  
 3319 9.4 115825.1 -1803.2  
 3320 10. 115835.3 -1832.2  
 3321 9.1 115847.1 -1805.4  
 3322 10. 115852.3 -1859.2  
 3323 10. 115859.1 -1811.2

3324 8.9 115935.2 -1843.3  
 3325 10. 115954.0 -1854.5  
 3326 10. 115956.5 -1848.4  
 3327 9.4 120025.1 -1827.0  
 3328 9.0 120042.8 -1859.8  
 3329 9.5 120053.6 -1814.4  
 3330 9.5 120056.4 -1829.6  
 3331 8.8 120102.0 -1816.1  
 3332 9.3 120120.1 -1823.8  
 3333 9.8 120134.2 -1845.0

3334 9.5 120202.5 -1807.1  
 3335 9.8 120211.9 -1807.5  
 3336 9.5 120236.6 -1831.3  
 3337 7.7 120250.2 -1857.6  
 3338 9.7 120256.6 -1844.7  
 3339 10. 120300.0 -1836.0  
 3340 9.4 120300.8 -1844.7  
 3341 9.8 120344.9 -1811.0  
 3342 9.7 120350.0 -1840.4  
 3343 9.4 120357.8 -1856.3

3344 9.8 120357.9 -1800.1  
 3345 9.5 120404.4 -1817.0  
 3346 10. 120434.5 -1856.5  
 3347 9.8 120448.9 -1812.8  
 3348 9.8 120505.8 -1845.4  
 3349 9.6 120534.9 -1825.0  
 3350 10. 120537.8 -1807.5  
 3351 8.0 120647.9 -1820.7  
 3352 9.9 120734.9 -1858.8  
 3353 9.2 120739.8 -1828.1

3354 8.8 120748.4 -1835.0  
 3355 8.5 120816.7 -1804.3  
 3356 9.6 120822.1 -1831.3  
 3357 9.1 120828.4 -1822.7  
 3358 10. 120845.8 -1858.1  
 3359 10. 120949.1 -1830.1  
 3360 8.9 120950.4 -1831.3  
 3361 9.8 120954.6 -1801.0  
 3362 9.0 121033.5 -1805.7  
 3363 9.8 121107.8 -1804.4

3364 9.4 121114.3 -1828.1  
 3365 9.0 121158.1 -1807.0  
 3366 9.9 121204.0 -1826.8  
 3367 30.0 121208.4 -1827.0  
 3368 7.8 121213.7 -1823.6  
 3369 8.3 121225.6 -1828.5  
 3370 9.5 121228.6 -1806.0  
 3371 10. 121249.1 -1819.1  
 3372 9.3 121249.6 -1829.9  
 3373 9.1 121329.1 -1823.9

3374 10. 121419.6 -1847.2  
 3375 9.5 121419.8 -1824.0  
 3376 9.5 121421.3 -1800.9  
 3377 10. 121525.4 -1809.3  
 3378 9.0 121547.5 -1817.3  
 3379 7.0 121621.8 -1825.4  
 3380 7.0 121631.0 -1845.9  
 3381 9.3 121632.5 -1844.2  
 3382 8.8 121721.4 -1844.6  
 3383 9.3 121733.2 -1823.2

3384 9.4 121736.0 -1859.2  
 3385 10. 121736.4 -1803.0  
 3386 9.6 121749.0 -1819.4  
 3387 9.7 121756.8 -1807.9  
 3388 7.1 121757.3 -1833.2  
 3389 9.8 121826.4 -1826.0  
 3390 9.1 121833.7 -1825.2  
 3391 9.3 121836.6 -1838.9  
 3392 9.8 121837.1 -1817.7  
 3393 7.8 121859.7 -1830.6

3394 10. 122021.5 -1828.7  
 3395 10. 122024.7 -1811.3  
 3396 9.9 122028.7 -1811.3  
 3397 8.5 122044.8 -1846.6  
 3398 9.3 122045.3 -1846.7  
 3399 9.9 122123.8 -1834.7  
 3400 9.8 122201.2 -1819.5  
 3401 9.5 122218.2 -1839.4  
 3402 9.8 122224.1 -1811.7  
 3403 9.0 122250.2 -1814.9

3404 9.3 122327.6 -1820.2  
 3405 9.1 122330.2 -1847.6  
 3406 7.5 122336.2 -1847.6  
 3407 8.8 122339.6 -1811.7  
 3408 9.7 122351.4 -1831.0  
 3409 9.6 122402.1 -1835.5  
 3410 10. 122421.7 -1807.9  
 3411 9.6 122443.5 -1807.7  
 3412 9.6 122447.0 -1816.4  
 3413 9.1 122453.2 -1857.6

3414 8.9 122453.7 -1809.0  
 3415 9.6 122518.3 -1813.5  
 3416 6.2 122548.2 -1859.4  
 3417 9.5 122554.1 -1851.6  
 3418 10. 122615.0 -1841.0  
 3419 9.8 122641.7 -1859.6  
 3420 9.6 122651.5 -1819.0  
 3421 9.8 122656.4 -1807.0  
 3422 10. 122752.3 -1802.0  
 3423 9.8 122805.3 -1800.5

3424 9.0 122821.9 -1845.8  
 3425 9.5 122822.9 -1807.2  
 3426 9.3 122825.6 -1833.7  
 3427 8.5 122841.2 -1805.4  
 3428 8.5 122909.9 -1812.0  
 3429 10. 122927.8 -1847.7  
 3430 9.7 122937.9 -1819.8  
 3431 8.5 123005.9 -1846.6  
 3432 9.4 123032.9 -1852.1  
 3433 9.3 123109.8 -1839.0

3434 8.2 123132.0 -1854.3  
 3435 8.0 123153.1 -1826.7  
 3436 8.7 123158.3 -1842.1  
 3437 8.7 123228.6 -1800.2  
 3438 9.0 123250.7 -1820.3  
 3439 8.2 123250.7 -1856.0  
 3440 9.8 123400.2 -1845.7  
 3441 9.4 123413.2 -1839.9  
 3442 6.2 123414.8 -1857.7  
 3443 9.8 123420.6 -1806.4

3444 9.4 123426.2 -1819.8  
 3445 9.5 123439.1 -1802.4  
 3446 9.7 123457.6 -1810.7  
 3447 9.0 123503.7 -1842.8  
 3448 9.0 123508.3 -1804.4  
 3449 9.7 123508.6 -1830.9  
 3450 10. 123528.2 -1854.4  
 3451 8.7 123543.6 -1823.9  
 3452 8.2 123555.5 -1804.2  
 3453 9.0 123621.6 -1807.8

3454 8.6 123623.6 -1816.2  
 3455 10. 123642.0 -1806.2  
 3456 9.3 123728.1 -1843.6  
 3457 9.3 123755.9 -1805.2  
 3458 9.4 123840.5 -1816.9  
 3459 9.5 123851.0 -1821.2  
 3460 10. 123852.9 -1825.8  
 3461 9.5 123859.4 -1808.7  
 3462 9.1 123905.0 -1813.7  
 3463 10. 123921.3 -1821.9

3464 8.9 123935.5 -1851.8  
 3465 6.3 123944.0 -1812.7  
 3466 8.9 123955.9 -1809.6  
 3467 9.7 124009.0 -1816.5  
 3468 9.7 124011.3 -1804.2  
 3469 8.8 124028.1 -1857.5  
 3470 10. 124038.4 -1821.4  
 3471 9.3 124105.4 -1843.1  
 3472 8.2 124110.9 -1852.0  
 3473 9.2 124123.9 -1846.4

3474 9.9 124159.3 -1836.0  
 3475 10. 124222.0 -1854.0  
 3476 10. 124226.4 -1816.5  
 3477 9.0 124252.2 -1805.9  
 3478 9.3 124314.6 -1831.6  
 3479 10. 124337.6 -1826.0  
 3480 9.8 124351.5 -1832.4  
 3481 9.8 124405.2 -1802.5  
 3482 9.1 124406.9 -1820.1  
 3483 8.5 124415.7 -1809.4

3484 9.8 124418.3 -1815.7  
 3485 9.7 124519.5 -1829.2  
 3486 9.8 124524.2 -1840.2  
 3487 9.8 124611.3 -1840.1  
 3488 9.5 124617.6 -1804.8  
 3489 9.1 124641.2 -1820.5  
 3490 9.5 124654.2 -1811.3  
 3491 9.8 124701.6 -1840.7  
 3492 9.0 124714.1 -1836.7  
 3493 8.8 124726.7 -1840.7

3494 8.8 124748.7 -1820.7  
 3495 9.9 124758.6 -1802.8  
 3496 10. 124802.9 -1829.4  
 3497 7.3 124837.3 -1850.7  
 3498 9.5 124848.9 -1804.5  
 3499 9.4 124850.7 -1859.0  
 3500 9.2 124900.1 -1816.1  
 3501 10. 124927.6 -1822.0  
 3502 9.4 124935.9 -1800.9  
 3503 9.2 124945.7 -1856.2

3504 8.2 124954.6 -1857.9  
 3505 10. 124958.1 -1812.3  
 3506 9.4 125001.2 -1856.1  
 3507 8.8 125004.5 -1818.6  
 3508 8.6 125015.2 -1824.0  
 3509 9.5 125035.4 -1806.0  
 3510 10. 125041.5 -1821.0  
 3511 9.6 125047.9 -1830.7  
 3512 9.4 125055.0 -1841.9  
 3513 10. 125111.0 -1811.9

3514 10. 125119.6 -1827.5  
 3515 9.7 125151.9 -1846.5  
 3516 8.9 125202.4 -1841.0  
 3517 9.8 125204.5 -1846.8  
 3518 8.3 125231.4 -1841.7  
 3519 9.4 125245.4 -1851.3  
 3520 9.8 125248.4 -1850.8  
 3521 9.8 125254.3 -1806.8  
 3522 9.7 125307.2 -1828.1  
 3523 9.5 125315.3 -1804.9

3524 9.8 125344.5 -1834.5  
 3525 9.3 125348.4 -1807.9  
 3526 10. 125355.4 -1841.8  
 3527 9.8 125356.7 -1855.9  
 3528 7.8 125411.0 -1859.5  
 3529 9.5 125415.3 -1839.8  
 3530 9.5 125450.8 -1845.2  
 3531 9.6 125455.3 -1840.4  
 3532 9.1 125520.9 -1812.0  
 3533 7.8 125521.6 -1817.5

3534 8.8 125545.4 -1853.8  
 3535 9.6 125619.1 -1829.5  
 3536 9.5 125654.8 -1821.0  
 3537 9.4 125731.2 -1838.2  
 3538 8.0 125745.7 -1811.8  
 3539 8.0 125804.6 -1803.0  
 3540 8.0 125843.1 -1810.3  
 3541 9.3 125852.6 -1834.1  
 3542 8.9 125935.0 -1841.8  
 3543 7.5 130008.1 -1815.4

3544 9.2 130021.6 -1814.8  
 3545 9.6 130054.1 -1833.8  
 3546 9.0 130125.0 -1858.2  
 3547 8.5 130225.0 -1807.7  
 3548 9.0 130247.4 -1858.4  
 3549 9.4 130254.5 -1814.6  
 3550 9.1 130305.8 -1815.4  
 3551 10. 130309.6 -1828.4  
 3552 9.0 130313.9 -1843.5  
 3553 8.7 130325.4 -1802.2

3554 9.3 130346.7 -1831.9  
 3555 9.4 130347.8 -1833.9  
 3556 9.4 130418.9 -1848.0  
 3557 9.3 130448.9 -1803.0  
 3558 9.1 130455.8 -1802.6  
 3559 9.1 130457.3 -1840.5  
 3560 9.0 130505.9 -1811.6  
 3561 9.3 130531.0 -1859.2  
 3562 6.3 130541.8 -1803.3  
 3563 9.4 130705.3 -1812.4

3564 8.9 130711.9 -1816.2  
 3565 8.5 130723.5 -1825.9  
 3566 9.5 130723.8 -1813.8  
 3567 8.2 130727.5 -1808.7  
 3568 9.8 130739.8 -1816.9  
 3569 9.2 130750.6 -1307.7  
 3570 9.8 130800.2 -1831.6  
 3571 9.8 130801.5 -1842.9  
 3572 9.7 130802.7 -1851.2  
 3573 9.6 130838.1 -1804.2

3574 9.2 130851.3 -1821.7  
 3575 9.8 130937.6 -1846.3  
 3576 9.2 130939.7 -1857.5  
 3577 9.3 131030.8 -1819.4  
 3578 9.5 131126.0 -1846.2  
 3579 9.1 131132.3 -1822.1  
 3580 9.3 131207.5 -1852.0  
 3581 9.0 131210.0 -1802.8  
 3582 9.8 131223.3 -1803.2  
 3583 9.2 131229.4 -1804.4

3584 9.5 131308.8 -1823.0  
 3585 9.2 131318.4 -1835.7  
 3586 9.3 131319.0 -1850.7  
 3587 6.3 131342.7 -1843.3  
 3588 9.4 131345.2 -1800.8  
 3589 9.3 131422.0 -1834.7  
 3590 9.8 131435.9 -1848.9  
 3591 9.8 131446.3 -1832.9  
 3592 9.3 131456.8 -1842.7  
 3593 9.3 131507.6 -1809.4

3594 9.3 131509.9 -1816.8  
 3595 9.2 131518.3 -1835.5  
 3596 8.7 131520.6 -1826.6  
 3597 9.3 131537.7 -1832.1  
 3598 9.5 131549.6 -1807.0  
 3599 9.8 131556.2 -1858.6  
 3600 9.8 131644.1 -1800.4  
 3601 9.8 131717.5 -1813.8  
 3602 10. 131747.5 -1804.2  
 3603 9.0 131801.5 -1821.1

3604 10. 131835.4 -1820.5  
 3605 9.8 131836.2 -1829.0  
 3606 9.5 131915.5 -1306.5  
 3607 10. 131936.0 -1308.5  
 3608 9.8 132034.5 -1816.0  
 3609 9.2 132037.0 -1829.4  
 3610 9.4 132100.7 -1839.9  
 3611 9.8 132104.7 -1824.9  
 3612 9.6 132125.6 -1859.8  
 3613 9.5 132137.6 -1857.8

3614 9.5 132159.9 -1805.9  
 3615 9.8 132222.7 -1842.9  
 3616 8.7 132223.3 -1817.2  
 3617 9.3 132255.1 -1838.2  
 3618 7.3 132305.1 -1848.8  
 3619 10. 132305.8 -1815.9  
 3620 9.0 132323.8 -1820.4  
 3621 9.4 132407.0 -1836.2  
 3622 9.6 132408.5 -1844.9  
 3623 9.3 132415.8 -1820.3

3624 9.7 132433.6 -1819.9  
 3625 9.7 132434.1 -1805.9  
 3626 9.2 132455.2 -1831.2  
 3627 10. 132450.6 -1805.9  
 3628 9.4 132500.2 -1802.8  
 3629 9.5 132504.2 -1818.1  
 3630 9.0 132511.8 -1830.4  
 3631 9.8 132545.8 -1810.9  
 3632 8.5 132632.1 -1821.7  
 3633 9.2 132645.3 -1806.3

3634 9.3 132647.9 -1815.5  
 3635 9.8 132712.4 -1839.2  
 3636 9.1 132800.4 -1857.9  
 3637 9.2 132809.6 -1821.0  
 3638 9.4 132817.7 -1833.7  
 3639 10. 132832.9 -1856.1  
 3640 9.0 132837.9 -1850.8  
 3641 9.6 132901.8 -1847.9  
 3642 9.5 132924.6 -1810.2  
 3643 8.5 132930.9 -1843.2

3644 9.1 132936.8 -1852.6  
 3645 9.2 132938.2 -1808.7  
 3646 9.9 133008.3 -1831.9  
 3647 8.5 133018.2 -1826.7  
 3648 9.0 133036.9 -1826.5  
 3649 9.3 133039.8 -1843.0  
 3650 8.8 133116.3 -1853.1  
 3651 9.2 133119.8 -1858.1  
 3652 9.1 133143.1 -1856.8  
 3653 9.5 133209.4 -1823.5



-18 3654 13h32m

3654 9.4 133210.3 -1829.5  
3655 9.3 133223.2 -1828.5  
3656 9.1 133228.0 -1812.8  
3657 10. 133247.7 -1850.2  
3658 10. 133247.8 -1824.9  
3659 9.7 133320.1 -1832.8  
3660 8.2 133352.5 -1824.0  
3661 10. 133357.7 -1841.3  
3662 7.7 133400.4 -1814.9  
3663 9.8 133421.5 -1838.1

3664 9.1 133428.7 -1825.9  
3665 9.0 133431.2 -1839.5  
3666 9.5 133434.5 -1803.1  
3667 9.3 133454.9 -1809.2  
3668 10. 133519.2 -1859.8  
3669 9.8 133523.6 -1830.8  
3670 9.5 133528.1 -1856.1  
3671 9.6 133602.3 -1815.8  
3672 9.8 133607.1 -1848.7  
3673 9.8 133630.4 -1807.5

3674 9.4 133634.5 -1852.2  
3675 9.4 133635.3 -1843.8  
3676 9.0 133704.7 -1822.7  
3677 9.1 133729.5 -1836.1  
3678 9.5 133820.3 -1809.8  
3679 9.3 133826.3 -1828.7  
3680 9.8 133919.2 -1806.5  
3681 7.2 133919.9 -1831.4  
3682 8.9 133926.5 -1836.7  
3683 9.8 134016.4 -1845.2

3684 9.0 134055.2 -1824.9  
3685 9.7 134133.6 -1828.4  
3686 9.7 134134.1 -1850.2  
3687 10. 134155.8 -1822.7  
3688 9.8 134157.4 -1841.2  
3689 8.8 134213.9 -1838.1  
3690 9.8 134228.8 -1844.3  
3691 8.5 134233.8 -1841.0  
3692 9.2 134419.5 -1820.7  
3693 10. 134454.6 -1819.1

3694 8.4 134600.9 -1827.1  
3695 9.7 134625.1 -1850.7  
3696 10. 134630.1 -1850.6  
3697 9.1 134659.5 -1851.6  
3698 6.9 134705.7 -1830.1  
3699 8.7 134710.2 -1836.6  
3700 9.5 134712.9 -1834.0  
3701 10. 134733.2 -1831.0  
3702 8.3 134832.2 -1831.1  
3703 9.7 134914.5 -1829.8

3704 9.7 134942.6 -1858.2  
3705 9.6 134949.5 -1851.1  
3706 9.0 135009.9 -1800.0  
3707 9.3 135024.0 -1838.7  
3708 9.7 135049.0 -1833.0  
3709 9.7 135059.0 -1828.3  
3710 9.5 135103.0 -1811.1  
3711 9.8 135112.5 -1847.9  
3712 9.4 135125.0 -1831.6  
3713 9.4 135139.3 -1811.7

3714 9.8 135223.4 -1842.5  
3715 9.5 135227.2 -1818.1  
3716 9.5 135237.9 -1833.1  
3717 9.8 135248.9 -1849.9  
3718 9.0 135255.1 -1859.1  
3719 9.9 135255.4 -1834.2  
3720 10. 135330.1 -1844.5  
3721 9.5 135330.2 -1806.5  
3722 9.5 135350.1 -1819.0  
3723 9.2 135351.5 -1823.7

3724 10. 135357.3 -1842.4  
3725 10. 135407.4 -1844.9  
3726 9.5 135427.5 -1824.3  
3727 10. 135447.9 -1849.4  
3728 9.8 135450.2 -1807.8  
3729 9.5 135500.3 -1848.1  
3730 9.5 135502.7 -1801.8  
3731 10. 135515.9 -1838.2  
3732 9.0 135516.6 -1800.0  
3733 9.5 135519.8 -1854.7

3734 9.5 135525.3 -1825.6  
3735 9.4 135537.6 -1805.0  
3736 9.7 135605.2 -1825.6  
3737 9.7 135607.5 -1821.0  
3738 9.4 135640.9 -1827.5  
3739 9.3 135652.7 -1824.6  
3740 9.6 135702.6 -1806.2  
3741 10. 135703.8 -1815.3  
3742 9.8 135729.2 -1848.1  
3743 9.3 135744.7 -1855.7

3744 9.8 135748.7 -1851.7  
3745 9.4 135751.9 -1804.4  
3746 9.8 135814.4 -1819.6  
3747 9.5 135837.0 -1812.0  
3748 9.4 135840.5 -1838.8  
3749 9.5 135906.9 -1848.0  
3750 8.2 135909.7 -1835.8  
3751 8.6 135928.5 -1804.6  
3752 9.3 135948.0 -1812.9  
3753 9.6 140014.1 -1839.9

3754 9.2 140019.0 -1810.8  
3755 9.5 140030.3 -1852.2  
3756 10. 140034.4 -1806.9  
3757 7.3 140100.0 -1833.0  
3758 9.4 140113.3 -1840.6  
3759 9.4 140208.7 -1824.9  
3760 9.8 140228.7 -1828.7  
3761 8.6 140242.4 -1802.9  
3762 9.8 140256.9 -1831.5  
3763 8.9 140300.3 -1827.5

3764 9.0 140321.5 -1848.5  
3765 9.1 140324.8 -1803.2  
3766 7.8 140346.2 -1819.5  
3767 9.0 140349.0 -1853.9  
3768 9.1 140400.8 -1811.9  
3769 8.9 140422.8 -1804.0  
3770 9.2 140436.2 -1831.8  
3771 9.8 140442.6 -1828.6  
3772 9.3 140500.9 -1837.8  
3773 9.5 140502.7 -1812.5

3774 9.3 140553.6 -1823.4  
3775 9.5 140624.6 -1846.0  
3776 9.5 140716.1 -1850.8  
3777 9.3 140728.8 -1838.5  
3778 10. 140751.3 -1848.8  
3779 9.3 140843.1 -1813.1  
3780 9.5 140915.5 -1837.6  
3781 9.2 140922.7 -1824.0  
3782 9.2 140927.2 -1848.4  
3783 9.0 141002.7 -1857.5

3784 9.5 141005.2 -1841.9  
3785 9.5 141016.0 -1823.0  
3786 8.8 141021.4 -1824.8  
3787 8.7 141024.2 -1853.4  
3788 9.4 141025.2 -1832.1  
3789 6.2 141037.2 -1802.3  
3790 9.5 141100.8 -1858.4  
3791 9.8 141110.0 -1807.4  
3792 10. 141112.3 -1844.3  
3793 10. 141113.7 -1847.7

3794 9.7 141138.8 -1830.9  
3795 10. 141142.0 -1830.7  
3796 9.5 141205.0 -1839.2  
3797 9.8 141206.9 -1814.2  
3798 8.0 141248.0 -1839.9  
3799 8.5 141301.6 -1819.3  
3800 9.0 141318.1 -1809.0  
3801 8.8 141326.1 -1840.4  
3802 9.8 141343.0 -1804.4  
3803 9.6 141347.6 -1846.4

3804 8.8 141355.0 -1808.1  
3805 9.9 141406.7 -1828.7  
3806 9.3 141504.8 -1831.2  
3807 9.2 141519.5 -1832.0  
3808 9.0 141521.0 -1859.8  
3809 9.5 141525.0 -1849.3  
3810 9.6 141536.4 -1819.0  
3811 9.3 141618.0 -1842.0  
3812 9.2 141619.8 -1836.6  
3813 8.7 141645.9 -1840.0

3814 9.7 141648.4 -1817.2  
3815 9.8 141742.3 -1821.6  
3816 9.0 141743.4 -1851.7  
3817 9.5 141744.3 -1824.5  
3818 9.4 141804.5 -1826.6  
3819 9.0 141818.9 -1857.3  
3820 10. 141826.4 -1856.1  
3821 8.5 141832.9 -1810.0  
3822 9.5 141900.3 -1820.3  
3823 9.5 141929.6 -1856.9

3824 9.3 141945.7 -1833.1  
3825 9.0 141955.3 -1838.7  
3826 9.4 142001.8 -1848.3  
3827 9.2 142004.5 -1802.0  
3828 9.9 142008.9 -1810.9  
3829 10. 142013.3 -1854.2  
3830 9.1 142017.4 -1828.0  
3831 10. 142048.7 -1824.9  
3832 9.4 142050.7 -1828.9  
3833 9.6 142105.7 -1815.3

3834 9.4 142107.0 -1829.3  
3835 9.0 142126.6 -1803.2  
3836 9.4 142134.7 -1830.0  
3837 8.8 142142.9 -1831.9  
3838 9.5 142157.2 -1855.9  
3839 9.8 142231.3 -1810.7  
3840 9.4 142249.6 -1849.5  
3841 9.8 142302.6 -1845.3  
3842 10. 142321.9 -1852.5  
3843 8.6 142340.8 -1803.7

3844 9.3 142343.3 -1851.9  
3845 9.5 142422.7 -1804.9  
3846 8.5 142427.7 -1810.9  
3847 9.4 142514.1 -1856.5  
3848 10. 142523.1 -1822.3  
3849 10. 142523.9 -1804.3  
3850 8.7 142529.6 -1839.1  
3851 9.4 142538.5 -1820.8  
3852 8.5 142543.1 -1833.5  
3853 8.0 142603.1 -1852.7

3854 8.4 142607.1 -1835.3  
3855 9.8 142615.6 -1857.6  
3856 9.8 142658.2 -1809.0  
3857 9.1 142705.7 -1806.5  
3858 9.0 142717.1 -1859.9  
3859 9.0 142717.4 -1811.4  
3860 8.8 142749.2 -1820.0  
3861 9.3 142751.0 -1857.7  
3862 10. 142836.3 -1839.3  
3863 9.0 142838.6 -1812.2

3864 9.7 142850.5 -1814.6  
3865 10. 142916.3 -1829.7  
3866 9.5 143004.0 -1806.2  
3867 10. 143034.8 -1821.6  
3868 9.3 143104.9 -1837.0  
3869 9.0 143108.4 -1849.6  
3870 10. 143128.3 -1842.3  
3871 9.3 143157.8 -1817.0  
3872 8.8 143205.4 -1844.3  
3873 10. 143209.8 -1856.0

3874 9.3 143220.9 -1845.0  
3875 8.6 143250.4 -1810.7  
3876 9.2 143252.5 -1805.1  
3877 9.2 143310.3 -1844.1  
3878 9.6 143327.4 -1806.3  
3879 8.0 143342.3 -1802.6  
3880 9.3 143428.7 -1822.3  
3881 9.6 143432.3 -1836.4  
3882 7.0 143437.5 -1841.2  
3883 10. 143447.4 -1808.4

3884 9.0 143517.6 -1826.2  
3885 9.7 143525.5 -1820.1  
3886 9.4 143633.9 -1854.8  
3887 9.6 143656.6 -1858.9  
3888 9.0 143727.0 -1828.0  
3889 8.5 143747.3 -1820.6  
3890 10. 143747.4 -1804.3  
3891 8.4 143754.6 -1821.9  
3892 9.5 143757.5 -1816.1  
3893 9.5 143804.4 -1811.4

3894 9.4 143822.5 -1824.5  
3895 9.8 143825.0 -1817.0  
3896 9.5 143837.7 -1829.2  
3897 9.5 143842.8 -1834.3  
3898 9.0 143843.2 -1843.8  
3899 9.8 143918.1 -1857.2  
3900 10. 143943.8 -1848.7  
3901 10. 144003.9 -1835.3  
3902 9.4 144007.3 -1832.4  
3903 9.7 144011.0 -1823.2

3904 8.8 144121.2 -1854.0  
3905 8.5 144131.6 -1820.3  
3906 8.7 144219.5 -1815.4  
3907 9.0 144220.3 -1836.3  
3908 8.5 144226.7 -1801.8  
3909 9.1 144226.6 -1857.2  
3910 8.2 144244.2 -1852.6  
3911 9.3 144251.6 -1807.3  
3912 8.0 144300.5 -1819.2  
3913 10. 144308.1 -1806.6

3914 9.4 144317.5 -1814.6  
3915 9.0 144320.0 -1805.1  
3916 9.5 144331.6 -1813.3  
3917 10. 144340.9 -1854.7  
3918 10. 144354.8 -1858.0  
3919 9.8 144356.9 -1836.4  
3920 8.8 144409.6 -1850.3  
3921 10. 144428.3 -1803.2  
3922 9.7 144455.2 -1825.0  
3923 8.6 144458.1 -1803.2

3924 8.3 144525.9 -1833.0  
3925 9.2 144538.4 -1810.3  
3926 9.0 144611.0 -1821.9  
3927 9.2 144613.8 -1853.4  
3928 9.5 144643.9 -1844.6  
3929 9.8 144652.5 -1826.1  
3930 9.5 144700.5 -1818.8  
3931 9.8 144737.4 -1829.0  
3932 10. 144750.0 -1827.7  
3933 7.5 144808.7 -1820.1

3934 9.3 144856.2 -1820.1  
3935 9.4 144928.7 -1853.3  
3936 10. 144944.5 -1818.1  
3937 9.7 144956.3 -1827.8  
3938 9.4 145026.7 -1812.3  
3939 10. 145035.6 -1809.9  
3940 9.2 145045.8 -1845.0  
3941 8.8 145109.2 -1849.7  
3942 8.5 145131.8 -1843.2  
3943 9.9 145149.9 -1831.7

3944 9.5 145159.2 -1856.2  
3945 7.8 145211.9 -1803.1  
3946 10. 145212.3 -1827.5  
3947 9.8 145222.2 -1810.6  
3948 9.8 145226.5 -1823.0  
3949 10. 145243.3 -1806.5  
3950 8.5 145318.7 -1841.2  
3951 8.0 145319.6 -1813.5  
3952 9.2 145335.0 -1828.4  
3953 10. 145358.1 -1834.6

3954 9.1 145408.4 -1859.2  
3955 9.1 145410.0 -1831.3  
3956 10. 145416.6 -1804.7  
3957 9.6 145429.0 -1819.6  
3958 10. 145431.6 -1855.4  
3959 9.0 145433.3 -1845.3  
3960 9.8 145435.6 -1817.3  
3961 9.7 145509.2 -1827.9  
3962 9.8 145545.5 -1809.2  
3963 10. 145618.6 -1839.1

3964 9.8 145636.0 -1813.9  
3965 9.0 145643.7 -1801.4  
3966 9.4 145658.8 -1849.6  
3967 10. 145701.5 -1803.8  
3968 10. 145706.2 -1822.6  
3969 8.7 145709.4 -1803.8  
3970 9.7 145712.6 -1829.7  
3971 9.5 145713.5 -1817.4  
3972 7.5 145801.6 -1848.6  
3973 8.9 145802.8 -1834.6

3974 8.9 145809.9 -1832.0  
3975 9.0 145814.7 -1810.1  
3976 9.8 145846.6 -1806.3  
3977 9.5 145852.9 -1815.1  
3978 9.8 145947.8 -1827.9  
3979 9.8 145953.5 -1828.1  
3980 9.1 150010.4 -1857.7  
3981 9.4 150024.4 -1853.7  
3982 8.7 150024.9 -1839.6  
3983 9.8 150038.5 -1810.8

3984 9.8 150043.0 -1807.0  
3985 9.3 150055.5 -1845.2  
3986 10. 150106.2 -1851.1  
3987 10. 150114.9 -1873.0  
3988 9.8 150133.6 -1809.3  
3989 9.2 150141.7 -1822.9  
3990 10. 150155.3 -1808.5  
3991 9.4 150159.4 -1850.7  
3992 10. 150212.1 -1804.0  
3993 9.1 150246.6 -1801.6

3994 9.5 150255.4 -1835.5  
3995 9.4 150337.4 -1844.6  
3996 9.5 150341.3 -1845.0  
3997 6.6 150358.3 -1833.4  
3998 10. 150419.6 -1847.8  
3999 9.0 150430.8 -1816.3  
4000 10. 150436.3 -1802.7  
4001 8.7 150441.3 -1844.7  
4002 10. 150445.9 -1830.3  
4003 10. 150521.7 -1819.7

4004 9.4 150539.9 -1807.2  
4005 9.4 150552.8 -1817.5  
4006 10. 150555.6 -1848.0  
4007 7.5 150605.7 -1824.5  
4008 8.5 150614.4 -1842.2  
4009 9.5 150618.0 -1847.8  
4010 9.4 150628.2 -1851.9  
4011 9.3 150642.8 -1808.8  
4012 10. 150654.7 -1831.9  
4013 9.2 150727.0 -1824.6

-18 4013 15h07m



4014 10. 150742.1 -1811.3  
 4015 9.0 150753.5 -1834.9  
 4016 10. 150802.5 -1844.4  
 4017 8.5 150806.4 -1805.5  
 4018 9.1 150855.5 -1833.8  
 4019 9.8 150903.7 -1849.5  
 4020 10. 150905.5 -1850.7  
 4021 9.1 150906.0 -1828.9  
 4022 9.3 150913.1 -1854.4  
 4023 9.5 150925.7 -1840.5

4024 9.1 150949.3 -1858.6  
 4025 9.3 150949.5 -1821.3  
 4026 9.1 150950.6 -1838.3  
 4027 9.4 151005.5 -1831.0  
 4028 9.3 151005.9 -1844.5  
 4029 9.1 151012.8 -1856.0  
 4030 9.3 151013.3 -1842.6  
 4031 9.5 151021.7 -1805.4  
 4032 9.0 151031.6 -851.3  
 4033 9.4 151108.5 -1857.3

4034 8.2 151110.2 -1838.5  
 4035 9.5 151122.6 -1912.8  
 4036 9.4 151154.1 -1934.9  
 4037 9.5 151202.0 -1900.6  
 4038 9.8 151214.8 -1800.4  
 4039 10. 151215.0 -1841.0  
 4040 10. 151233.9 -1816.3  
 4041 8.6 151246.0 -1821.6  
 4042 9.4 151248.1 -1836.3  
 4043 8.9 151248.5 -1807.9

4044 10. 151301.7 -1817.6  
 4045 9.4 151314.5 -1815.0  
 4046 10. 151325.5 -1817.4  
 4047 9.0 151412.4 -1858.9  
 4048 10. 151424.7 -1805.8  
 4049 9.3 151442.0 -1847.3  
 4050 8.7 151445.5 -1819.4  
 4051 9.5 151507.6 -1831.6  
 4052 9.4 151508.8 -1811.0  
 4053 9.1 151555.3 -1831.3

4054 9.8 151556.2 -1845.5  
 4055 9.1 151623.3 -1834.7  
 4056 9.3 151643.6 -1820.6  
 4057 9.3 151644.1 -1806.1  
 4058 9.8 151659.1 -1815.9  
 4059 10. 151721.4 -1850.0  
 4060 9.8 151726.4 -1827.2  
 4061 7.2 151737.7 -1800.2  
 4062 10. 151740.9 -1810.1  
 4063 9.2 151752.6 -1804.0

4064 10. 151753.7 -1847.1  
 4065 9.9 151905.8 -1855.7  
 4066 9.8 151914.6 -1802.5  
 4067 9.3 151918.0 -1805.2  
 4068 9.3 151921.9 -1839.2  
 4069 9.8 151934.2 -1823.5  
 4070 9.8 151945.3 -1857.3  
 4071 9.8 152012.4 -1806.8  
 4072 9.9 152014.1 -1818.2  
 4073 9.1 152027.4 -1837.5

4074 8.2 152027.6 -1813.1  
 4075 9.7 152031.3 -1813.5  
 4076 8.7 152106.8 -1853.9  
 4077 10. 152108.1 -1817.8  
 4078 10. 152145.2 -1838.4  
 4079 9.3 152226.2 -1801.0  
 4080 10. 152229.3 -1810.6  
 4081 9.9 152240.3 -1817.2  
 4082 10. 152241.1 -1808.7  
 4083 7.9 152246.5 -1820.2

4084 9.6 152255.4 -1821.7  
 4085 10. 152310.7 -1800.9  
 4086 10. 152329.0 -1859.5  
 4087 10. 152355.4 -1837.4  
 4088 8.8 152415.7 -1854.5  
 4089 9.8 152423.0 -1808.5  
 4090 9.5 152454.2 -1852.7  
 4091 9.6 152521.6 -1818.1  
 4092 9.2 152530.7 -1857.1  
 4093 8.5 152611.6 -1834.1

4094 9.8 152625.6 -1815.2  
 4095 9.8 152641.8 -1825.4  
 4096 9.0 152659.9 -1825.2  
 4097 8.8 152702.1 -1814.1  
 4098 9.5 152727.0 -1830.9  
 4099 9.6 152729.6 -1852.1  
 4100 9.5 152730.9 -1813.0  
 4101 9.8 152739.4 -1848.6  
 4102 9.0 152739.9 -1837.7  
 4103 9.2 152742.0 -1829.9

4104 9.8 152757.2 -1811.9  
 4105 9.0 152823.7 -1841.9  
 4106 9.7 152830.7 -1830.8  
 4107 9.1 152848.6 -1839.2  
 4108 9.2 152855.6 -1815.1  
 4109 9.8 152858.6 -1841.0  
 4110 9.5 152918.3 -1818.3  
 4111 9.0 152924.1 -1856.4  
 4112 8.7 152924.4 -1845.4  
 4113 9.5 152925.2 -1807.1

4114 9.5 152928.5 -1841.0  
 4115 9.5 152930.5 -1852.1  
 4116 9.5 152945.1 -1826.9  
 4117 9.9 152959.0 -1852.4  
 4118 6.0 153034.1 -1849.1  
 4119 10. 153037.5 -1803.8  
 4120 10. 153105.7 -1801.5  
 4121 9.9 153115.4 -1829.0  
 4122 9.7 153133.4 -1829.2  
 4123 9.8 153135.7 -1859.2

4124 9.8 153159.4 -1824.2  
 4125 9.4 153211.6 -1813.2  
 4126 9.6 153216.8 -1832.5  
 4127 9.4 153225.4 -1855.6  
 4128 9.5 153242.1 -1837.7  
 4129 9.1 153249.8 -1820.8  
 4130 9.1 153314.3 -1820.3  
 4131 9.5 153319.9 -1837.9  
 4132 9.0 153327.9 -1817.6  
 4133 8.2 153334.8 -1859.4

4134 10. 153345.2 -1816.4  
 4135 9.6 153410.4 -1806.5  
 4136 8.0 153421.0 -1808.0  
 4137 9.5 153434.8 -1831.5  
 4138 9.5 153512.0 -1807.6  
 4139 9.8 153528.3 -1852.4  
 4140 9.4 153544.3 -1828.7  
 4141 9.8 153602.9 -1837.5  
 4142 9.5 153604.1 -1854.8  
 4143 10. 153607.0 -1808.6

4144 9.9 153607.7 -1849.9  
 4145 9.4 153622.1 -1800.0  
 4146 10. 153629.6 -1811.8  
 4147 9.1 153634.6 -1817.1  
 4148 9.8 153640.5 -1801.8  
 4149 10. 153646.4 -1844.6  
 4150 9.5 153647.9 -1849.6  
 4151 9.2 153657.6 -1801.0  
 4152 7.7 153703.8 -1838.8  
 4153 10. 153736.0 -1846.7

4154 10. 153737.4 -1840.1  
 4155 10. 153740.3 -1814.6  
 4156 10. 153741.0 -1858.3  
 4157 9.4 153743.0 -1845.5  
 4158 9.9 153748.7 -1820.8  
 4159 8.9 153749.0 -1854.6  
 4160 9.3 153750.7 -1839.7  
 4161 9.8 153816.9 -1849.6  
 4162 10. 153825.0 -1824.3  
 4163 8.5 153838.8 -1840.6

4164 8.8 153852.6 -1801.5  
 4165 9.8 153915.9 -1806.7  
 4166 10. 153926.3 -1812.6  
 4167 8.6 154017.7 -1846.1  
 4168 9.9 154019.2 -1800.6  
 4169 9.2 154026.1 -1857.9  
 4170 9.5 154031.3 -1814.8  
 4171 8.0 154046.7 -1815.4  
 4172 9.5 154048.6 -1848.6  
 4173 10. 154055.3 -1847.7

4174 10. 154056.4 -1852.9  
 4175 9.9 154116.6 -1821.5  
 4176 9.8 154154.9 -1829.6  
 4177 9.2 154217.6 -1801.4  
 4178 9.0 154218.7 -1816.0  
 4179 9.3 154257.6 -1849.0  
 4180 9.4 154304.4 -1829.2  
 4181 9.8 154310.7 -1843.7  
 4182 7.2 154317.6 -1829.5  
 4183 9.5 154348.7 -1843.2

4184 9.8 154411.0 -1911.6  
 4185 9.6 154418.1 -1817.7  
 4186 9.2 154421.7 -1844.1  
 4187 9.0 154447.2 -1842.6  
 4188 10. 154448.9 -1818.1  
 4189 8.9 154539.1 -1857.8  
 4190 9.2 154524.0 -1806.0  
 4191 7.5 154535.0 -1830.8  
 4192 9.5 154556.4 -1823.0  
 4193 9.5 154557.5 -1857.5

4194 9.1 154627.4 -1805.2  
 4195 6.3 154637.5 -1857.1  
 4196 8.6 154716.5 -1821.8  
 4197 9.2 154757.3 -1811.1  
 4198 9.6 154800.0 -1830.8  
 4199 9.6 154802.2 -1829.7  
 4200 9.7 154808.6 -1809.2  
 4201 10. 154825.7 -1831.2  
 4202 9.5 154827.3 -1828.4  
 4203 9.5 154831.6 -1850.7

4204 9.3 154835.5 -1842.1  
 4205 9.8 154852.1 -1829.8  
 4206 9.3 154916.5 -1850.9  
 4207 9.8 154950.9 -1955.7  
 4208 9.3 154959.6 -1812.0  
 4209 9.0 155002.8 -1802.9  
 4210 9.2 155045.0 -1809.3  
 4211 9.5 155128.7 -1807.6  
 4212 10. 155206.2 -1846.4  
 4213 8.8 155237.4 -1833.1

4214 8.8 155239.8 -1853.1  
 4215 4.8 155243.4 -1840.6  
 4216 9.4 155326.5 -1827.2  
 4217 9.3 155359.7 -1826.6  
 4218 9.7 155424.2 -1833.3  
 4219 9.8 155427.7 -1826.5  
 4220 9.3 155430.9 -1848.8  
 4221 9.3 155436.1 -1805.8  
 4222 9.3 155439.5 -1822.5  
 4223 8.5 155437.8 -1842.1

4224 10. 155604.6 -1816.3  
 4225 10. 155618.4 -1813.9  
 4226 8.4 155625.3 -1844.9  
 4227 9.5 155635.1 -1810.0  
 4228 6.8 155642.5 -1809.1  
 4229 9.4 155655.3 -1834.3  
 4230 9.1 155702.9 -1816.0  
 4231 9.2 155713.3 -1819.4  
 4232 9.5 155733.2 -1834.7  
 4233 9.5 155739.4 -1831.3

4234 8.7 155749.0 -1859.0  
 4235 8.5 155804.0 -1815.9  
 4236 10. 155816.3 -1800.2  
 4237 9.8 155828.7 -1803.6  
 4238 9.5 155920.4 -1834.0  
 4239 10. 155940.3 -1803.5  
 4240 7.5 160059.1 -1836.4  
 4241 9.3 160062.0 -1839.4  
 4242 10. 160331.1 -1826.8  
 4243 8.1 160341.4 -1840.9

4244 10. 160416.1 -1837.8  
 4245 9.8 160520.3 -1844.1  
 4246 9.2 160547.4 -1857.6  
 4247 8.5 160550.1 -1827.7  
 4248 9.2 160616.4 -1849.2  
 4249 6.5 160617.7 -1809.4  
 4250 9.7 160626.9 -1851.7  
 4251 9.1 160640.5 -1802.3  
 4252 8.5 160757.3 -1813.8  
 4253 9.1 160816.3 -1814.9

4254 9.5 160847.4 -1806.4  
 4255 9.6 160916.8 -1844.7  
 4256 9.5 160923.3 -1815.1  
 4257 10. 161035.9 -1826.7  
 4258 9.7 161103.0 -1850.7  
 4259 9.7 161107.9 -1801.1  
 4260 7.0 161111.5 -1828.1  
 4261 9.0 161126.5 -1831.0  
 4262 10. 161132.4 -1849.0  
 4263 9.5 161135.2 -1836.4

4264 9.0 161149.9 -1803.8  
 4265 9.8 161156.3 -1859.7  
 4266 8.0 161205.8 -1820.1  
 4267 9.5 161218.2 -1851.1  
 4268 9.3 161223.2 -1825.2  
 4269 9.7 161245.7 -1820.8  
 4270 9.5 161257.7 -1819.9  
 4271 9.5 161311.0 -1852.1  
 4272 9.0 161329.6 -1813.5  
 4273 9.5 161419.2 -1844.7

4274 8.9 161445.0 -1824.6  
 4275 9.5 161447.7 -1823.9  
 4276 9.7 161609.2 -1851.1  
 4277 9.3 161617.0 -1854.3  
 4278 9.4 161634.5 -1846.8  
 4279 9.5 161706.1 -1851.8  
 4280 9.3 161746.1 -1843.3  
 4281 8.8 161814.4 -1848.0  
 4282 5.2 161837.1 -1807.3  
 4283 9.1 161910.0 -1808.9

4284 9.8 161921.2 -1851.0  
 4285 9.3 162010.1 -1858.6  
 4286 9.5 162101.1 -1835.8  
 4287 8.0 162117.5 -1820.8  
 4288 8.9 162202.0 -1801.2  
 4289 9.8 162238.0 -1818.1  
 4290 9.5 162242.4 -1812.6  
 4291 9.3 162505.8 -1829.3  
 4292 9.6 162533.1 -1816.4  
 4293 9.5 162545.3 -1810.8

4294 9.3 162646.6 -1840.2  
 4295 8.2 162704.9 -1822.4  
 4296 9.0 162739.4 -1815.6  
 4297 8.5 162804.9 -1858.3  
 4298 8.5 162909.9 -1804.5  
 4299 9.3 162911.2 -1832.0  
 4300 9.8 162932.9 -1844.0  
 4301 9.5 162946.7 -1856.1  
 4302 7.1 163008.1 -1831.8  
 4303 9.4 163025.4 -1851.4

4304 9.0 163035.2 -1814.0  
 4305 9.4 163205.6 -1808.0  
 4306 9.6 163218.0 -1852.3  
 4307 8.8 163331.7 -1839.5  
 4308 9.4 163345.1 -1819.6  
 4309 9.7 163449.9 -1841.6  
 4310 9.0 163450.6 -1810.7  
 4311 9.5 163452.1 -1820.2  
 4312 9.4 163501.6 -1858.7  
 4313 9.8 163528.3 -1802.8

4314 9.5 163528.8 -1845.6  
 4315 8.0 163538.6 -1815.7  
 4316 9.4 163613.4 -1811.1  
 4317 9.3 163630.5 -1826.3  
 4318 9.6 163632.3 -1845.2  
 4319 9.8 163658.6 -1809.8  
 4320 6.7 163701.8 -1851.9  
 4321 9.0 163702.9 -1812.6  
 4322 9.2 163719.6 -1825.4  
 4323 9.4 163737.1 -1816.1

4324 8.8 163812.9 -1831.3  
 4325 9.5 163819.5 -1813.5  
 4326 9.8 163908.5 -1815.7  
 4327 10. 163910.5 -1856.5  
 4328 9.3 164028.7 -1843.6  
 4329 9.5 164058.8 -1810.4  
 4330 7.9 164102.3 -1839.8  
 4331 10. 164108.9 -1827.1  
 4332 8.4 164121.6 -1806.1  
 4333 9.8 164204.6 -1837.6

4334 8.7 164220.4 -1847.9  
 4335 9.7 164220.7 -1854.8  
 4336 7.4 164241.0 -1856.1  
 4337 9.6 164304.7 -1844.8  
 4338 9.4 164311.8 -1830.1  
 4339 9.4 164311.9 -1809.7  
 4340 9.5 164329.0 -1840.4  
 4341 9.8 164333.5 -1800.8  
 4342 9.0 164345.7 -1854.3  
 4343 9.5 164352.7 -1827.6

4344 9.1 164405.4 -1808.3  
 4345 9.1 164420.3 -1822.1  
 4346 9.4 164504.3 -1859.4  
 4347 9.2 164509.0 -1856.2  
 4348 9.3 164509.1 -1835.0  
 4349 9.3 164525.6 -1843.9  
 4350 8.5 164529.8 -1839.6  
 4351 8.7 164533.8 -1830.0  
 4352 9.1 164538.8 -1826.7  
 4353 9.4 164544.9 -1820.7

4354 9.8 164553.7 -1856.2  
 4355 9.5 164622.7 -1852.8  
 4356 9.5 164627.1 -1812.4  
 4357 9.1 164635.8 -1831.7  
 4358 7.7 164637.7 -1828.3  
 4359 9.5 164724.7 -1800.4  
 4360 9.9 164800.8 -1818.5  
 4361 9.7 164837.4 -1823.0  
 4362 9.5 164843.5 -1819.4  
 4363 9.5 164914.8 -1836.3

4364 9.5 164929.6 -1836.6  
 4365 9.0 164943.4 -1859.7  
 4366 9.4 164956.9 -1806.7  
 4367 9.0 165006.8 -1808.1  
 4368 9.8 165040.5 -1823.2  
 4369 10. 165042.1 -1828.5  
 4370 8.8 165056.5 -1827.4  
 4371 9.8 165102.3 -1815.7  
 4372 6.7 165117.9 -1800.7  
 4373 9.5 165134.2 -1842.1



-18 4374 16h51m

-18 4733 17h49m

|                           |                            |                           |                           |
|---------------------------|----------------------------|---------------------------|---------------------------|
| 4374 9.2 165142.0 -1825.8 | 4464 9.8 170559.1 -1802.0  | 4554 9.6 172325.9 -1820.1 | 4644 9.7 173856.2 -1839.9 |
| 4375 9.0 165143.7 -1828.1 | 4465 9.7 170609.4 -1859.3  | 4555 9.6 172334.1 -1802.3 | 4645 9.0 173858.4 -1802.5 |
| 4376 8.3 165149.6 -1856.7 | 4466 9.7 170617.8 -1857.0  | 4556 9.8 172350.4 -1856.9 | 4646 9.6 173902.7 -1850.3 |
| 4377 9.3 165200.3 -1805.2 | 4467 9.3 170624.2 -1842.3  | 4557 9.5 172352.9 -1844.1 | 4647 9.7 173908.4 -1815.2 |
| 4378 9.5 165234.2 -1847.5 | 4468 9.8 170644.0 -1853.5  | 4558 9.6 172409.8 -1817.5 | 4648 8.5 173912.2 -1852.2 |
| 4379 8.5 165255.3 -1842.7 | 4469 9.6 170644.6 -1808.2  | 4559 9.3 172413.0 -1832.1 | 4649 9.0 173937.1 -1814.1 |
| 4380 9.4 165255.6 -1832.6 | 4470 9.5 170701.0 -1815.5  | 4560 9.5 172426.5 -1808.3 | 4650 9.0 174008.2 -1850.5 |
| 4381 6.5 165322.7 -1839.8 | 4471 9.7 170709.3 -1836.5  | 4561 9.2 172432.0 -1832.6 | 4651 9.4 174026.8 -1813.3 |
| 4382 9.0 165334.3 -1859.0 | 4472 8.8 170715.7 -1800.9  | 4562 9.4 172449.6 -1816.2 | 4652 9.8 174044.3 -1831.8 |
| 4383 9.5 165334.6 -1853.5 | 4473 9.8 170719.4 -1830.4  | 4563 9.6 172457.0 -1825.2 | 4653 9.1 174146.2 -1838.8 |
| 4384 9.4 165358.7 -1816.9 | 4474 9.9 170738.8 -1830.0  | 4564 7.8 172458.1 -1813.7 | 4654 9.5 174147.7 -1859.9 |
| 4385 9.6 165403.9 -1846.7 | 4475 9.1 170742.1 -1852.2  | 4565 9.5 172509.5 -1857.4 | 4655 9.5 174159.4 -1804.2 |
| 4386 9.9 165404.2 -1839.7 | 4476 9.3 170745.7 -1841.7  | 4566 9.7 172512.4 -1839.3 | 4656 9.5 174203.7 -1844.4 |
| 4387 9.4 165428.2 -1828.2 | 4477 9.9 170745.7 -1829.5  | 4567 9.0 172547.7 -1840.2 | 4657 8.3 174204.5 -1851.6 |
| 4388 9.8 165433.2 -1850.7 | 4478 9.0 170803.6 -1820.7  | 4568 9.5 172549.5 -1828.9 | 4658 9.5 174239.8 -1841.1 |
| 4389 9.5 165441.9 -1850.5 | 4479 9.4 170813.0 -1823.0  | 4569 9.1 172551.5 -1830.4 | 4659 9.0 174245.0 -1829.5 |
| 4390 9.2 165453.3 -1834.1 | 4480 9.8 170829.0 -1838.9  | 4570 7.0 172604.6 -1806.6 | 4660 8.5 174308.4 -1840.6 |
| 4391 8.8 165508.7 -1843.1 | 4481 9.9 170848.6 -1855.1  | 4571 9.3 172625.4 -1834.0 | 4661 10. 174325.4 -1837.9 |
| 4392 9.4 165518.4 -1817.6 | 4482 9.0 170853.6 -1857.0  | 4572 9.2 172627.3 -1808.9 | 4662 9.2 174325.1 -1855.0 |
| 4393 9.7 165520.6 -1810.2 | 4483 9.5 170859.1 -1859.4  | 4573 9.3 172632.2 -1813.6 | 4663 10. 174334.3 -1808.0 |
| 4394 9.5 165525.3 -1820.1 | 4484 9.7 170922.9 -1851.3  | 4574 9.3 172640.0 -1840.2 | 4664 9.5 174343.6 -1847.6 |
| 4395 9.5 165527.8 -1846.8 | 4485 9.6 170937.7 -1826.6  | 4575 9.5 172648.1 -1817.3 | 4665 9.4 174348.5 -1839.8 |
| 4396 9.8 165545.2 -1841.0 | 4486 10. 171017.1 -1800.1  | 4576 9.4 172650.9 -1839.3 | 4666 7.3 174344.4 -1802.9 |
| 4397 9.0 165552.9 -1827.0 | 4487 9.2 171018.8 -1808.0  | 4577 9.3 172652.3 -1834.3 | 4667 10. 174413.7 -1834.7 |
| 4398 9.7 165559.7 -1830.4 | 4488 20.0 171042.7 -1821.8 | 4578 9.0 172652.6 -1808.5 | 4668 9.8 174414.0 -1855.8 |
| 4399 9.7 165600.9 -1807.7 | 4489 7.5 171100.1 -1847.5  | 4579 8.9 172726.3 -1828.0 | 4669 9.8 174427.1 -1833.5 |
| 4400 9.3 165605.8 -1808.6 | 4490 9.5 171104.6 -1847.9  | 4580 9.0 172728.3 -1832.5 | 4670 9.5 174431.8 -1809.1 |
| 4401 8.8 165613.6 -1816.1 | 4491 9.0 171123.1 -1856.0  | 4581 9.7 172738.8 -1826.1 | 4671 10. 174442.8 -1804.0 |
| 4402 9.5 165617.9 -1824.6 | 4492 8.5 171128.9 -1850.9  | 4582 9.1 172749.9 -1844.2 | 4672 8.5 174450.1 -1850.4 |
| 4403 9.5 165648.8 -1827.0 | 4493 9.3 171133.3 -1826.0  | 4583 9.2 172750.0 -1818.2 | 4673 9.8 174454.0 -1853.7 |
| 4404 9.1 165652.9 -1829.1 | 4494 8.7 171146.9 -1839.9  | 4584 9.8 172804.1 -1807.5 | 4674 8.7 174546.1 -1825.6 |
| 4405 9.5 165659.5 -1809.4 | 4495 9.3 171151.5 -1832.9  | 4585 9.2 172829.1 -1805.4 | 4675 9.0 174558.0 -1856.9 |
| 4406 10. 165700.9 -1834.7 | 4496 9.4 171207.2 -1840.0  | 4586 7.0 172831.8 -1853.5 | 4676 9.2 174612.3 -1801.8 |
| 4407 10. 165728.5 -1845.7 | 4497 9.8 171207.9 -1822.6  | 4587 9.8 172843.6 -1834.7 | 4677 9.5 174617.6 -1828.5 |
| 4408 9.5 165735.7 -1803.0 | 4498 9.5 171214.3 -1847.1  | 4588 9.5 172846.0 -1817.2 | 4678 9.5 174630.2 -1809.3 |
| 4409 9.7 165738.5 -1826.6 | 4499 9.2 171223.0 -1845.3  | 4589 9.5 172848.8 -1849.2 | 4679 8.3 174636.7 -1815.3 |
| 4410 9.1 165748.8 -1826.0 | 4500 9.6 171228.1 -1818.0  | 4590 9.8 172915.4 -1826.0 | 4680 9.6 174654.3 -1840.7 |
| 4411 9.8 165805.5 -1823.6 | 4501 10. 171238.7 -1816.9  | 4591 9.3 172929.6 -1854.0 | 4681 9.7 174657.0 -1839.5 |
| 4412 8.9 165835.8 -1857.5 | 4502 9.5 171258.2 -1808.0  | 4592 9.3 172949.9 -1859.1 | 4682 9.5 174658.4 -1825.5 |
| 4413 8.2 165840.6 -1820.3 | 4503 9.0 171306.9 -1830.4  | 4593 9.5 172952.0 -1832.8 | 4683 9.3 174659.5 -1840.6 |
| 4414 9.5 165843.0 -1831.8 | 4504 8.5 171318.7 -1811.3  | 4594 9.8 173009.9 -1831.4 | 4684 9.0 174709.1 -1811.1 |
| 4415 9.1 165856.6 -1847.8 | 4505 9.7 171349.3 -1835.1  | 4595 9.0 173017.1 -1805.3 | 4685 9.0 174720.4 -1859.1 |
| 4416 9.5 165909.0 -1816.8 | 4506 9.8 171349.5 -1838.2  | 4596 9.6 173020.2 -1835.2 | 4686 6.0 174723.2 -1846.3 |
| 4417 9.5 165911.5 -1821.9 | 4507 8.5 171353.1 -1829.9  | 4597 9.1 173038.7 -1838.0 | 4687 10. 174725.2 -1829.0 |
| 4418 8.5 165916.1 -1821.6 | 4508 8.8 171358.7 -1857.6  | 4598 8.5 173048.3 -1819.0 | 4688 9.8 174734.9 -1836.0 |
| 4419 10. 165921.3 -1855.8 | 4509 9.0 171422.3 -1802.9  | 4599 9.1 173057.4 -1856.0 | 4689 10. 174735.9 -1844.2 |
| 4420 9.8 165940.1 -1839.4 | 4510 9.8 171422.8 -1836.8  | 4600 9.4 173100.3 -1843.5 | 4690 9.5 174736.3 -1802.6 |
| 4421 9.0 165941.0 -1814.9 | 4511 9.5 171423.8 -1839.4  | 4601 9.2 173109.1 -1802.7 | 4691 9.5 174745.4 -1821.8 |
| 4422 9.7 165947.0 -1835.0 | 4512 10. 171513.2 -1803.0  | 4602 9.7 173115.0 -1830.7 | 4692 10. 174746.6 -1850.6 |
| 4423 8.7 165951.6 -1811.3 | 4513 9.5 171529.7 -1819.1  | 4603 9.5 173122.7 -1847.0 | 4693 9.0 174748.4 -1811.4 |
| 4424 9.8 170021.7 -1825.8 | 4514 8.5 171556.0 -1842.4  | 4604 9.8 173128.5 -1842.5 | 4694 9.3 174754.8 -1816.9 |
| 4425 9.5 170027.3 -1845.1 | 4515 9.2 171600.4 -1834.2  | 4605 9.3 173132.7 -1844.1 | 4695 10. 174755.2 -1851.4 |
| 4426 9.8 170032.7 -1826.5 | 4516 6.3 171607.6 -1818.6  | 4606 9.5 173133.8 -1827.1 | 4696 10. 174756.1 -1834.9 |
| 4427 8.2 170040.4 -1804.0 | 4517 9.4 171610.1 -1813.4  | 4607 9.6 173139.6 -1828.6 | 4697 9.7 174800.6 -1855.0 |
| 4428 9.0 170040.5 -1853.4 | 4518 9.5 171611.2 -1811.2  | 4608 9.0 173147.1 -1809.0 | 4698 9.4 174802.2 -1853.7 |
| 4429 9.4 170044.4 -1824.9 | 4519 8.0 171621.9 -1842.9  | 4609 9.4 173155.5 -1844.0 | 4699 9.2 174802.7 -1859.7 |
| 4430 9.3 170054.6 -1817.8 | 4520 9.8 171630.2 -1808.7  | 4610 9.5 173211.5 -1817.7 | 4700 9.1 174809.4 -1849.0 |
| 4431 9.8 170168.6 -1849.6 | 4521 9.6 171641.1 -1829.4  | 4611 9.3 173214.6 -1835.7 | 4701 9.5 174813.6 -1816.4 |
| 4432 8.9 170110.4 -1829.4 | 4522 9.0 171644.1 -1833.0  | 4612 9.0 173215.6 -1800.3 | 4702 9.6 174815.6 -1855.4 |
| 4433 9.5 170122.9 -1812.8 | 4523 9.7 171650.1 -1832.6  | 4613 9.5 173227.2 -1838.4 | 4703 9.0 174816.0 -1828.6 |
| 4434 9.7 170134.1 -1843.4 | 4524 8.5 171652.2 -1808.7  | 4614 9.3 173229.6 -1807.7 | 4704 9.4 174817.6 -1856.9 |
| 4435 9.0 170148.5 -1844.2 | 4525 9.5 171701.8 -1855.6  | 4615 9.8 173236.9 -1856.4 | 4705 9.5 174819.4 -1858.4 |
| 4436 9.5 170154.9 -1838.2 | 4526 9.5 171753.4 -1859.8  | 4616 9.0 173239.7 -1804.0 | 4706 9.8 174825.0 -1853.2 |
| 4437 9.1 170212.2 -1834.3 | 4527 9.5 171812.6 -1808.1  | 4617 9.2 173245.7 -1833.5 | 4707 9.1 174825.7 -1855.6 |
| 4438 9.1 170224.0 -1855.2 | 4528 8.9 171834.0 -1851.6  | 4618 8.5 173247.7 -1833.5 | 4708 9.5 174825.8 -1836.6 |
| 4439 9.1 170246.1 -1841.2 | 4529 9.5 171837.9 -1830.4  | 4619 9.3 173250.1 -1825.2 | 4709 9.4 174829.7 -1855.4 |
| 4440 9.0 170253.5 -1824.1 | 4530 9.3 171857.4 -1849.8  | 4620 9.8 173250.3 -1818.2 | 4710 9.3 174831.3 -1857.7 |
| 4441 8.3 170305.1 -1809.1 | 4531 8.3 171905.6 -1813.5  | 4621 9.5 173307.9 -1835.0 | 4711 9.3 174833.1 -1850.3 |
| 4442 9.5 170327.1 -1811.0 | 4532 9.5 171918.4 -1827.7  | 4622 9.1 173321.6 -1802.9 | 4712 10. 174834.5 -1840.9 |
| 4443 9.5 170329.9 -1817.1 | 4533 9.5 171919.9 -1835.5  | 4623 9.9 173342.4 -1832.9 | 4713 9.7 174834.8 -1859.6 |
| 4444 9.0 170348.0 -1843.6 | 4534 9.6 171931.3 -1856.5  | 4624 9.8 173344.8 -1832.6 | 4714 10. 174835.0 -1850.1 |
| 4445 9.7 170351.1 -1820.6 | 4535 9.5 171939.0 -1828.8  | 4625 9.5 173358.0 -1814.9 | 4715 9.5 174842.1 -1803.6 |
| 4446 9.4 170355.2 -1803.9 | 4536 8.7 172007.0 -1810.4  | 4626 9.3 173405.9 -1822.8 | 4716 9.8 174842.1 -1842.9 |
| 4447 8.6 170358.1 -1821.6 | 4537 9.2 172021.0 -1836.9  | 4627 9.5 173418.1 -1802.4 | 4717 9.5 174842.7 -1857.3 |
| 4448 9.4 170400.2 -1836.0 | 4538 9.2 172030.7 -1847.6  | 4628 9.5 173423.5 -1808.7 | 4718 9.5 174846.0 -1856.4 |
| 4449 9.5 170410.4 -1859.6 | 4539 9.1 172045.4 -1832.8  | 4629 9.2 173442.5 -1813.9 | 4719 9.7 174847.8 -1852.6 |
| 4450 9.0 170411.0 -1822.5 | 4540 8.7 172057.4 -1832.5  | 4630 9.5 173451.6 -1835.4 | 4720 8.8 174849.4 -1810.5 |
| 4451 8.9 170431.0 -1859.5 | 4541 9.8 172115.1 -1826.1  | 4631 8.8 173520.0 -1858.3 | 4721 9.7 174852.9 -1877.3 |
| 4452 10. 170441.6 -1824.0 | 4542 9.5 172116.4 -1806.6  | 4632 9.2 173602.0 -1847.4 | 4722 8.8 174853.0 -1802.1 |
| 4453 9.8 170452.7 -1853.0 | 4543 9.8 172130.6 -1808.3  | 4633 9.1 173613.5 -1852.1 | 4723 8.4 174854.3 -1854.9 |
| 4454 8.9 170454.3 -1833.7 | 4544 9.8 172142.1 -1802.4  | 4634 8.5 173625.9 -1835.7 | 4724 9.6 174854.3 -1848.9 |
| 4455 9.4 170508.0 -1832.5 | 4545 9.4 172200.1 -1804.0  | 4635 9.6 173628.7 -1830.5 | 4725 8.6 174857.4 -1839.6 |
| 4456 8.5 170508.1 -1821.6 | 4546 9.7 172208.4 -1849.3  | 4636 10. 173708.2 -1802.5 | 4726 9.8 174859.9 -1850.0 |
| 4457 8.1 170511.0 -1847.9 | 4547 8.0 172208.9 -1859.9  | 4637 8.8 173715.2 -1828.6 | 4727 9.7 174862.6 -1847.9 |
| 4458 9.8 170523.6 -1830.5 | 4548 9.5 172224.9 -1849.3  | 4638 9.1 173716.4 -1820.1 | 4728 9.8 174904.6 -1859.9 |
| 4459 8.2 170527.0 -1802.3 | 4549 9.8 172237.0 -1832.4  | 4639 9.7 173717.1 -1803.3 | 4729 9.3 174904.6 -1833.3 |
| 4460 9.6 170534.1 -1811.9 | 4550 9.5 172237.7 -1802.1  | 4640 9.5 173741.8 -1827.0 | 4730 9.3 174909.3 -1859.5 |
| 4461 9.5 170543.5 -1824.2 | 4551 9.3 172244.5 -1838.1  | 4641 9.7 173809.2 -1809.4 | 4731 10. 174915.5 -1847.5 |
| 4462 9.4 170555.0 -1850.0 | 4552 9.4 172248.0 -1815.7  | 4642 9.1 173826.9 -1806.3 | 4732 9.6 174915.9 -1838.2 |
| 4463 9.0 170558.0 -1823.1 | 4553 9.4 172312.9 -1827.3  | 4643 9.5 173832.6 -1837.2 | 4733 9.9 174918.8 -1839.3 |



|                            |                            |                            |                           |
|----------------------------|----------------------------|----------------------------|---------------------------|
| 4734 9.9 174919.2 -1842.2  | 4824 7.9 180232.6 -1834.2  | 4914 9.6 181116.0 -1831.3  | 5004 9.5 182606.0 -1855.5 |
| 4735 9.4 174922.2 -1853.0  | 4825 9.5 180303.7 -1848.8  | 4915 9.8 181117.3 -1834.3  | 5005 9.5 182629.9 -1833.5 |
| 4736 9.2 174931.9 -1853.6  | 4826 9.2 180315.9 -1824.6  | 4916 9.5 181139.1 -1843.5  | 5006 9.5 182657.4 -1828.2 |
| 4737 9.2 174938.1 -1842.1  | 4827 9.4 180322.1 -1830.5  | 4917 9.3 181146.6 -1838.7  | 5007 9.5 182700.1 -1825.2 |
| 4738 9.5 174939.0 -1815.1  | 4828 9.2 180325.1 -1841.7  | 4918 9.8 181149.6 -1821.6  | 5008 8.0 182705.9 -1839.5 |
| 4739 9.5 174942.5 -1826.3  | 4829 9.4 180332.6 -1845.0  | 4919 9.8 181157.9 -1831.9  | 5009 9.6 182727.3 -1849.5 |
| 4740 9.0 174946.6 -1809.4  | 4830 9.2 180341.4 -1827.8  | 4920 9.8 181222.2 -1828.2  | 5010 9.7 182728.9 -1838.6 |
| 4741 9.8 175003.3 -1842.3  | 4831 9.5 180357.6 -1841.2  | 4921 9.5 181231.1 -1840.0  | 5011 9.2 182748.6 -1812.6 |
| 4742 9.0 175012.8 -1844.0  | 4832 9.0 180359.5 -1853.1  | 4922 9.2 181236.0 -1808.6  | 5012 8.2 182801.3 -1854.2 |
| 4743 9.5 175027.5 -1819.0  | 4833 9.5 180402.9 -1830.5  | 4923 9.8 181240.5 -1802.1  | 5013 9.5 182820.8 -1830.8 |
| 4744 9.5 175040.7 -1805.8  | 4834 8.9 180404.7 -1825.6  | 4924 9.5 181246.3 -1804.0  | 5014 9.0 182837.6 -1802.5 |
| 4745 8.1 175053.9 -1811.3  | 4835 9.9 180417.2 -1825.9  | 4925 9.5 181249.6 -1852.8  | 5015 9.5 182851.9 -1839.0 |
| 4746 9.7 175100.0 -1834.5  | 4836 9.8 180423.6 -1846.2  | 4926 6.0 181250.3 -1855.2  | 5016 9.5 182856.4 -1858.1 |
| 4747 9.6 175101.1 -1850.5  | 4837 9.0 180434.1 -1820.4  | 4927 9.5 181257.6 -1835.7  | 5017 9.2 182910.1 -1825.5 |
| 4748 9.3 175108.1 -1832.0  | 4838 9.6 180441.6 -1837.5  | 4928 9.0 181303.1 -1829.4  | 5018 9.5 182918.7 -1824.1 |
| 4749 9.0 175113.4 -1832.3  | 4839 9.5 180446.0 -1801.4  | 4929 9.5 181309.3 -1815.1  | 5019 9.8 182920.2 -1811.9 |
| 4750 9.0 175117.8 -1848.6  | 4840 9.8 180448.1 -1819.5  | 4930 9.5 181309.4 -1800.1  | 5020 9.6 182924.7 -1810.0 |
| 4751 7.8 175158.2 -1833.9  | 4841 10.0 180503.4 -1828.5 | 4931 9.1 181310.5 -1825.1  | 5021 9.4 182931.9 -1844.0 |
| 4752 9.0 175212.9 -1810.8  | 4842 9.7 180505.8 -1849.2  | 4932 9.8 181312.0 -1820.5  | 5022 8.7 182950.1 -1830.2 |
| 4753 9.1 175217.8 -1857.1  | 4843 8.0 180508.6 -1825.0  | 4933 9.5 181316.4 -1806.8  | 5023 9.3 183006.8 -1807.5 |
| 4754 9.0 175217.9 -1844.3  | 4844 8.5 180514.5 -1850.7  | 4934 9.5 181330.0 -1854.3  | 5024 9.0 183011.9 -1854.4 |
| 4755 9.5 175218.7 -1819.2  | 4845 8.2 180523.0 -1847.8  | 4935 9.8 181406.7 -1823.1  | 5025 9.4 183012.1 -1823.7 |
| 4756 9.5 175222.1 -1817.7  | 4846 9.5 180528.1 -1838.7  | 4936 9.5 181410.5 -1805.7  | 5026 9.4 183019.0 -1820.2 |
| 4757 8.5 175234.5 -1803.6  | 4847 9.5 180530.0 -1803.9  | 4937 9.4 181411.5 -1804.5  | 5027 9.3 183046.7 -1832.5 |
| 4758 9.5 175234.6 -1804.7  | 4848 9.4 180536.1 -1846.2  | 4938 9.1 181415.8 -1846.8  | 5028 8.7 183057.9 -1847.9 |
| 4759 10.0 175240.3 -1811.7 | 4849 9.6 180541.7 -1855.6  | 4939 9.7 181440.1 -1826.2  | 5029 9.4 183106.5 -1809.2 |
| 4760 8.0 175241.4 -1830.0  | 4850 9.5 180553.1 -1838.1  | 4940 9.7 181506.3 -1807.4  | 5030 9.4 183122.8 -1803.0 |
| 4761 9.5 175303.4 -1846.1  | 4851 8.5 180555.5 -1811.5  | 4941 9.3 181513.1 -1805.8  | 5031 9.5 183127.9 -1848.3 |
| 4762 9.4 175304.0 -1848.7  | 4852 9.8 180558.2 -1855.6  | 4942 9.5 181526.4 -1831.9  | 5032 9.5 183150.1 -1830.9 |
| 4763 9.5 175306.8 -1849.0  | 4853 9.2 180559.1 -1818.5  | 4943 9.4 181550.1 -1841.4  | 5033 9.4 183218.0 -1825.8 |
| 4764 9.8 175331.7 -1807.9  | 4854 9.5 180600.5 -1828.1  | 4944 8.9 181551.8 -1810.0  | 5034 9.3 183238.3 -1820.1 |
| 4765 9.5 175352.3 -1802.0  | 4855 9.5 180601.3 -1849.1  | 4945 9.3 181552.0 -1824.7  | 5035 9.6 183258.8 -1853.0 |
| 4766 9.0 175429.9 -1804.3  | 4856 8.7 180613.0 -1848.9  | 4946 9.5 181554.3 -1803.0  | 5036 9.1 183304.9 -1851.2 |
| 4767 9.1 175447.2 -1812.1  | 4857 8.7 180628.0 -1858.8  | 4947 9.8 181558.1 -1856.5  | 5037 8.5 183307.7 -1806.8 |
| 4768 9.1 175501.4 -1836.8  | 4858 8.3 180629.3 -1835.3  | 4948 9.3 181559.6 -1845.0  | 5038 9.4 183308.3 -1808.9 |
| 4769 9.0 175511.8 -1802.9  | 4859 9.8 180632.9 -1807.2  | 4949 9.8 181607.0 -1806.4  | 5039 9.5 183342.0 -1805.8 |
| 4770 9.0 175512.6 -1852.5  | 4860 9.5 180636.6 -1836.9  | 4950 9.3 181610.1 -1841.9  | 5040 9.4 183346.6 -1805.8 |
| 4771 9.0 175516.5 -1818.3  | 4861 9.5 180653.6 -1844.9  | 4951 9.0 181612.2 -1821.1  | 5041 9.1 183341.3 -1812.2 |
| 4772 9.6 175524.0 -1821.7  | 4862 8.7 180655.5 -1857.6  | 4952 9.2 181612.7 -1848.6  | 5042 9.4 183357.5 -1810.7 |
| 4773 8.6 175525.4 -1831.6  | 4863 9.0 180658.0 -1824.2  | 4953 8.0 181629.1 -1836.4  | 5043 9.5 183358.8 -1859.6 |
| 4774 9.8 175527.6 -1844.0  | 4864 6.8 180659.6 -1842.0  | 4954 8.5 181636.9 -1821.0  | 5044 9.0 183340.1 -1817.9 |
| 4775 8.5 175532.3 -1836.6  | 4865 9.1 180713.0 -1859.3  | 4955 10.0 181627.6 -1819.3 | 5045 9.4 183313.2 -1807.5 |
| 4776 9.0 175539.9 -1822.8  | 4866 9.2 180714.0 -1856.7  | 4956 9.8 181654.9 -1847.5  | 5046 9.3 183352.7 -1807.5 |
| 4777 9.5 175558.6 -1812.8  | 4867 9.5 180716.0 -1826.1  | 4957 9.9 181658.0 -1828.7  | 5047 8.9 183352.7 -1829.0 |
| 4778 9.5 175603.1 -1817.7  | 4868 9.5 180721.2 -1814.7  | 4958 9.5 181716.3 -1855.2  | 5048 8.8 183353.9 -1853.8 |
| 4779 9.5 175616.1 -1828.4  | 4869 9.0 180723.9 -1828.6  | 4959 9.5 181719.1 -1805.6  | 5049 9.3 183360.2 -1829.3 |
| 4780 9.5 175618.4 -1806.1  | 4870 9.5 180724.6 -1846.8  | 4960 8.3 181741.0 -1837.1  | 5050 9.3 183362.7 -1817.3 |
| 4781 9.1 175619.4 -1834.5  | 4871 8.4 180725.9 -1817.1  | 4961 9.5 181745.3 -1830.2  | 5051 9.3 183367.7 -1813.9 |
| 4782 9.6 175649.3 -1801.8  | 4872 9.5 180726.4 -1805.0  | 4962 8.0 181758.0 -1809.7  | 5052 8.8 183362.7 -1813.9 |
| 4783 9.7 175715.3 -1856.5  | 4873 8.6 180739.6 -1850.5  | 4963 9.6 181808.4 -1818.9  | 5053 9.8 183365.9 -1842.8 |
| 4784 9.7 175728.8 -1836.9  | 4874 9.8 180744.0 -1816.5  | 4964 9.8 181816.3 -1818.0  | 5054 9.2 183368.8 -1859.0 |
| 4785 9.4 175739.7 -1821.5  | 4875 9.4 180744.8 -1829.1  | 4965 9.0 181826.3 -1842.3  | 5055 9.1 183370.7 -1812.8 |
| 4786 9.8 175740.0 -1846.7  | 4876 9.7 180745.4 -1846.5  | 4966 9.0 181828.3 -1825.0  | 5056 9.5 183371.2 -1843.4 |
| 4787 9.4 175741.2 -1807.9  | 4877 9.7 180745.9 -1811.8  | 4967 8.5 181831.5 -1834.5  | 5057 8.0 183372.5 -1830.3 |
| 4788 9.4 175806.8 -1841.8  | 4878 10.0 180755.1 -1841.5 | 4968 9.1 181834.4 -1818.9  | 5058 9.5 183375.4 -1838.7 |
| 4789 7.3 175811.2 -1859.4  | 4879 9.7 180756.9 -1848.2  | 4969 9.0 181846.6 -1827.9  | 5059 9.3 183374.7 -1842.3 |
| 4790 8.8 175817.8 -1849.1  | 4880 8.6 180806.1 -1850.7  | 4970 9.8 181849.2 -1818.9  | 5060 9.5 183382.1 -1808.5 |
| 4791 9.0 175817.8 -1805.7  | 4881 9.8 180812.4 -1827.6  | 4971 9.5 181903.7 -1800.8  | 5061 9.4 183382.1 -1808.5 |
| 4792 9.8 175833.4 -1837.1  | 4882 9.5 180815.1 -1835.7  | 4972 9.4 181941.7 -1856.6  | 5062 9.5 183384.4 -1846.5 |
| 4793 9.6 175835.3 -1855.8  | 4883 9.5 180821.4 -1843.4  | 4973 10.0 181955.6 -1854.6 | 5063 9.0 183390.7 -1854.1 |
| 4794 9.0 175841.0 -1854.6  | 4884 9.7 180822.1 -1825.1  | 4974 10.0 181955.8 -1854.2 | 5064 9.5 183397.5 -1825.6 |
| 4795 8.5 175911.1 -1803.0  | 4885 9.4 180840.0 -1851.8  | 4975 9.5 182004.3 -1827.8  | 5065 9.1 183391.8 -1816.0 |
| 4796 10.0 175920.1 -1858.2 | 4886 6.7 180858.7 -1830.7  | 4976 8.8 182017.5 -1836.0  | 5066 8.8 183391.0 -1845.2 |
| 4797 9.0 175940.9 -1827.9  | 4887 9.9 180914.8 -1801.9  | 4977 9.1 182057.7 -1845.4  | 5067 9.6 183393.5 -1803.2 |
| 4798 9.0 175948.2 -1857.1  | 4888 7.3 180919.6 -1850.6  | 4978 9.5 182105.4 -1828.6  | 5068 9.3 183395.6 -1829.4 |
| 4799 7.4 175955.6 -1834.0  | 4889 9.5 180921.9 -1811.4  | 4979 9.5 182112.4 -1848.7  | 5069 9.3 183392.6 -1816.4 |
| 4800 9.1 180007.0 -1823.9  | 4890 9.7 180925.9 -1825.5  | 4980 9.3 182128.4 -1821.2  | 5070 8.2 183392.7 -1822.3 |
| 4801 8.3 180016.7 -1859.3  | 4891 8.2 180927.6 -1844.9  | 4981 9.3 182131.9 -1820.1  | 5071 9.5 183391.3 -1826.3 |
| 4802 9.0 180020.4 -1857.1  | 4892 9.5 180932.5 -1840.0  | 4982 6.5 182140.3 -1848.6  | 5072 9.7 183393.9 -1804.3 |
| 4803 9.6 180023.5 -1856.5  | 4893 9.0 180932.8 -1848.6  | 4983 9.5 182153.8 -1846.9  | 5073 8.3 183395.7 -1834.5 |
| 4804 9.8 180028.1 -1816.5  | 4894 9.1 180934.8 -1800.9  | 4984 9.3 182209.8 -1820.4  | 5074 9.3 183394.9 -1822.6 |
| 4805 9.4 180032.4 -1826.1  | 4895 8.2 180952.5 -1831.9  | 4985 9.8 182229.2 -1857.6  | 5075 9.3 183393.9 -1812.3 |
| 4806 9.6 180036.5 -1800.0  | 4896 7.3 181012.6 -1840.4  | 4986 7.5 182248.3 -1859.6  | 5076 9.6 184000.0 -1833.1 |
| 4807 9.1 180039.3 -1843.6  | 4897 9.0 181013.6 -1840.2  | 4987 8.1 182253.0 -1821.7  | 5077 9.4 184012.7 -1853.3 |
| 4808 9.5 180041.8 -1845.0  | 4898 9.8 181016.4 -1803.7  | 4988 6.0 182256.7 -1830.0  | 5078 9.0 184013.5 -1851.0 |
| 4809 9.4 180045.2 -1859.0  | 4899 9.0 181016.7 -1820.2  | 4989 9.5 182300.3 -1856.7  | 5079 7.0 184015.8 -1845.2 |
| 4810 7.3 180112.8 -1851.5  | 4900 8.2 181018.0 -1813.3  | 4990 9.3 182305.9 -1806.4  | 5080 8.5 184020.3 -1847.0 |
| 4811 9.0 180129.0 -1819.5  | 4901 9.5 181021.4 -1811.2  | 4991 9.3 182317.1 -1851.0  | 5081 9.5 184028.7 -1849.9 |
| 4812 9.1 180128.8 -1857.1  | 4902 9.5 181022.3 -1803.0  | 4992 9.3 182333.7 -1808.1  | 5082 9.3 184029.0 -1820.5 |
| 4813 9.7 180143.3 -1811.9  | 4903 9.5 181026.6 -1853.4  | 4993 8.8 182355.7 -1827.3  | 5083 9.1 184036.9 -1854.4 |
| 4814 9.5 180148.3 -1840.8  | 4904 8.7 181030.0 -1833.9  | 4994 7.1 182429.7 -1827.9  | 5084 9.5 184049.6 -1823.0 |
| 4815 9.0 180148.7 -1812.8  | 4905 9.8 181045.9 -1810.8  | 4995 9.5 182443.3 -1847.3  | 5085 9.0 184053.0 -1855.8 |
| 4816 9.1 180152.7 -1831.8  | 4906 9.6 181048.2 -1822.2  | 4996 9.7 182454.7 -1806.2  | 5086 8.7 184054.3 -1826.6 |
| 4817 9.8 180159.4 -1812.5  | 4907 9.8 181049.4 -1812.0  | 4997 9.5 182501.3 -1852.1  | 5087 9.0 184056.4 -1834.1 |
| 4818 9.0 180202.7 -1842.8  | 4908 9.5 181057.1 -1855.0  | 4998 9.3 182523.3 -1802.4  | 5088 9.5 184114.0 -1838.7 |
| 4819 8.4 180213.5 -1820.3  | 4909 9.1 181058.5 -1816.6  | 4999 9.8 182532.6 -1812.9  | 5089 9.5 184114.2 -1846.0 |
| 4820 9.7 180215.1 -1815.7  | 4910 9.6 181108.6 -1814.5  | 5000 9.5 182534.7 -1821.8  | 5090 9.0 184122.3 -1815.6 |
| 4821 9.2 180220.0 -1844.9  | 4911 9.8 181111.4 -1806.3  | 5001 9.5 182540.9 -1823.5  | 5091 8.8 184133.5 -1835.8 |
| 4822 8.8 180223.3 -1853.5  | 4912 9.5 181112.3 -1828.7  | 5002 8.7 182559.0 -1825.0  | 5092 9.4 184134.2 -1830.4 |
| 4823 9.1 180226.6 -1851.3  | 4913 9.5 181114.1 -1812.4  | 5003 10.0 182601.8 -1811.9 | 5093 8.2 184138.0 -1806.1 |



-18 5094 18h41m

5094 9.5 184145.1 -1834.3  
5095 9.4 184148.7 -1835.3  
5096 9.5 184150.7 -1822.4  
5097 9.3 184151.6 -1812.9  
5098 9.3 184200.1 -1822.8  
5099 9.7 184202.6 -1828.8  
5100 10. 184204.4 -1830.1  
5101 9.2 184209.4 -1822.4  
5102 9.3 184237.7 -1821.0  
5103 9.5 184240.5 -1808.4

5104 9.4 184243.7 -1810.3  
5105 9.0 184244.8 -1858.7  
5106 8.6 184250.0 -1825.8  
5107 9.8 184302.6 -1849.1  
5108 9.8 184305.4 -1833.2  
5109 9.8 184321.3 -1819.1  
5110 9.5 184328.5 -1836.7  
5111 9.5 184331.9 -1859.0  
5112 9.6 184340.1 -1828.6  
5113 9.5 184418.5 -1809.2

5114 8.0 184427.7 -1826.0  
5115 7.2 184437.0 -1848.4  
5116 9.5 184439.3 -1816.8  
5117 9.1 184441.5 -1843.8  
5118 9.3 184449.4 -1851.9  
5119 8.7 184449.9 -1857.7  
5120 9.1 184459.9 -1833.9  
5121 9.5 184518.3 -1845.8  
5122 9.5 184522.0 -1854.1  
5123 9.5 184527.8 -1827.5

5124 9.6 184545.6 -1802.0  
5125 9.3 184554.8 -1802.3  
5126 9.1 184556.4 -1813.3  
5127 9.4 184601.4 -1819.7  
5128 9.5 184606.0 -1839.3  
5129 9.5 184644.3 -1839.0  
5130 9.3 184646.1 -1827.0  
5131 9.2 184709.5 -1833.7  
5132 8.5 184719.6 -1842.5  
5133 8.5 184725.5 -1806.0

5134 7.3 184744.5 -1853.3  
5135 10. 184749.1 -1808.7  
5136 9.0 184750.5 -1854.9  
5137 9.3 184754.5 -1857.6  
5138 9.4 184811.6 -1308.0  
5139 9.2 184816.0 -1331.1  
5140 9.1 184853.6 -1810.7  
5141 9.5 184901.7 -1823.0  
5142 9.2 184903.1 -1836.5  
5143 10. 184933.0 -1847.7

5144 10. 184935.6 -1819.3  
5145 9.3 184950.1 -1829.5  
5146 9.5 184951.2 -1826.1  
5147 9.0 184952.7 -1807.6  
5148 9.3 184953.1 -1849.7  
5149 8.7 184959.4 -1843.4  
5150 9.5 185009.0 -1858.2  
5151 9.6 185014.7 -1832.7  
5152 9.7 185016.7 -1834.1  
5153 9.0 185022.2 -1807.8

5154 9.3 185056.1 -1830.4  
5155 7.0 185058.0 -1845.5  
5156 8.0 185101.2 -1804.5  
5157 8.5 185120.6 -1837.7  
5158 9.8 185126.8 -1825.3  
5159 9.3 185134.8 -1823.5  
5160 9.4 185136.2 -1814.5  
5161 9.5 185143.1 -1849.6  
5162 8.8 185145.2 -1807.8  
5163 10. 185148.8 -1820.3

5164 9.5 185151.0 -1802.0  
5165 9.7 185200.3 -1817.9  
5166 9.6 185213.6 -1857.0  
5167 9.2 185224.6 -1801.1  
5168 9.8 185228.2 -1826.1  
5169 9.7 185246.0 -1815.2  
5170 9.2 185317.6 -1824.2  
5171 9.7 185324.2 -1825.8  
5172 9.6 185328.0 -1834.2  
5173 9.0 185340.2 -1834.8

5174 9.0 185341.6 -1845.0  
5175 9.0 185400.5 -1819.2  
5176 10. 185402.2 -1854.3  
5177 9.5 185414.1 -1841.4  
5178 9.5 185423.4 -1828.7  
5179 9.8 185424.1 -1840.4  
5180 9.2 185433.3 -1824.6  
5181 9.3 185448.7 -1809.4  
5182 9.5 185452.7 -1831.5  
5183 9.0 185457.0 -1816.5

5184 9.1 185458.5 -1853.3  
5185 9.8 185509.1 -1811.8  
5186 9.5 185529.0 -1847.2  
5187 9.5 185545.4 -1858.0  
5188 9.8 185552.7 -1807.8  
5189 9.5 185603.4 -1835.7  
5190 9.8 185604.2 -1801.9  
5191 8.5 185618.0 -1854.9  
5192 9.4 185619.5 -1858.4  
5193 8.3 185620.9 -1800.6

5194 9.5 185638.1 -1858.4  
5195 9.0 185645.8 -1830.5  
5196 9.0 185704.5 -1819.3  
5197 9.5 185710.5 -1820.0  
5198 9.8 185713.8 -1808.1  
5199 9.3 185717.1 -1814.0  
5200 9.8 185724.3 -1805.0  
5201 9.0 185735.0 -1822.6  
5202 9.6 185737.7 -1835.0  
5203 9.8 185741.7 -1808.8

5204 9.0 185824.7 -1809.2  
5205 9.8 185835.1 -1848.5  
5206 6.5 185839.1 -1857.4  
5207 9.8 185840.2 -1811.9  
5208 9.0 185848.8 -1804.7  
5209 9.5 185851.3 -1828.6  
5210 9.5 185853.0 -1805.2  
5211 9.1 185909.1 -1857.0  
5212 9.5 185913.1 -1854.1  
5213 9.8 185931.5 -1822.9

5214 9.5 185940.3 -1809.2  
5215 9.5 185948.2 -1834.8  
5216 9.8 185950.9 -1859.9  
5217 10. 190014.7 -1804.3  
5218 9.5 190026.9 -1809.0  
5219 7.8 190028.6 -1854.6  
5220 9.2 190030.3 -1822.7  
5221 9.3 190037.9 -1832.7  
5222 9.0 190041.7 -1843.0  
5223 9.5 190046.0 -1801.7

5224 9.5 190055.7 -1834.0  
5225 9.4 190055.9 -1841.4  
5226 9.5 190056.3 -1820.7  
5227 9.2 190105.3 -1857.3  
5228 9.2 190116.9 -1854.4  
5229 9.1 190124.3 -1808.2  
5230 9.5 190134.8 -1821.7  
5231 9.5 190135.2 -1848.8  
5232 9.5 190142.0 -1824.7  
5233 10. 190144.3 -1854.4

5234 9.5 190151.2 -1840.5  
5235 9.6 190217.2 -1841.9  
5236 9.9 190230.1 -1805.5  
5237 9.6 190241.4 -1803.5  
5238 9.0 190248.2 -1830.5  
5239 9.4 190253.9 -1850.9  
5240 9.1 190308.6 -1826.8  
5241 10. 190310.3 -1853.6  
5242 9.3 190315.4 -1853.5  
5243 9.5 190321.5 -1824.7

5244 9.1 190322.1 -1818.0  
5245 9.3 190327.9 -1828.8  
5246 9.1 190349.6 -1818.6  
5247 9.4 190358.6 -1830.1  
5248 9.8 190405.0 -1800.3  
5249 9.2 190410.2 -1839.8  
5250 9.1 190419.2 -1817.1  
5251 9.2 190453.6 -1848.8  
5252 9.5 190455.2 -1839.2  
5253 9.5 190456.5 -1813.1

5254 9.7 190456.5 -1817.0  
5255 9.1 190459.0 -1814.1  
5256 9.8 190517.6 -1855.7  
5257 9.4 190531.2 -1834.9  
5258 9.4 190533.7 -1847.2  
5259 9.5 190542.0 -1835.6  
5260 9.1 190543.1 -1817.9  
5261 9.7 190551.0 -1846.1  
5262 7.8 190555.9 -1808.6  
5263 9.5 190603.5 -1800.7

5264 9.1 190604.6 -1823.5  
5265 9.5 190605.9 -1803.6  
5266 8.3 190606.1 -1817.5  
5267 9.0 190622.2 -1845.1  
5268 9.5 190625.9 -1808.5  
5269 9.8 190629.3 -1813.2  
5270 9.5 190648.7 -1815.8  
5271 9.5 190704.0 -1801.7  
5272 9.5 190704.1 -1833.7  
5273 9.2 190706.6 -1835.4

5274 9.4 190717.7 -1855.6  
5275 9.8 190722.7 -1834.0  
5276 8.5 190741.8 -1854.0  
5277 9.8 190742.8 -1800.7  
5278 9.5 190750.2 -1810.2  
5279 9.5 190752.6 -1842.1  
5280 9.1 190752.9 -1812.9  
5281 9.1 190755.7 -1858.1  
5282 9.8 190807.8 -1820.5  
5283 9.3 190825.9 -1830.1

5284 9.5 190827.7 -1855.7  
5285 10. 190829.7 -1823.0  
5286 9.5 190843.0 -1807.0  
5287 9.5 190851.2 -1823.4  
5288 9.5 190852.8 -1852.6  
5289 8.7 190858.7 -1850.5  
5290 8.5 190905.5 -1804.7  
5291 8.0 190912.7 -1810.2  
5292 9.9 190917.6 -1843.1  
5293 9.0 190919.8 -1816.9

5294 9.5 190920.9 -1830.2  
5295 9.3 190927.8 -1808.2  
5296 9.0 190942.1 -1827.8  
5297 9.0 190953.5 -1843.0  
5298 8.0 191002.6 -1857.0  
5299 8.5 191014.4 -1859.2  
5300 9.1 191028.2 -1800.7  
5301 8.8 191032.5 -1811.0  
5302 9.4 191038.3 -1815.4  
5303 9.7 191050.4 -1831.1

5304 9.8 191120.7 -1819.9  
5305 9.8 191128.8 -1854.7  
5306 9.8 191130.2 -1822.5  
5307 9.2 191145.4 -1826.5  
5308 9.5 191158.6 -1827.7  
5309 9.4 191208.3 -1846.3  
5310 10. 191215.5 -1845.0  
5311 9.2 191221.9 -1828.1  
5312 9.2 191225.5 -1809.4  
5313 9.1 191225.9 -1816.9

5314 9.8 191236.1 -1805.3  
5315 8.5 191241.8 -1846.8  
5316 8.3 191247.2 -1854.8  
5317 9.5 191255.0 -1837.2  
5318 9.4 191302.3 -1855.3  
5319 9.4 191303.1 -1846.0  
5320 9.4 191308.5 -1810.8  
5321 9.3 191312.7 -1819.1  
5322 4.0 191315.3 -1806.9  
5323 9.5 191320.1 -1853.9

5324 9.2 191320.9 -1818.4  
5325 6.4 191323.6 -1834.3  
5326 9.4 191328.1 -1801.5  
5327 9.5 191330.3 -1851.0  
5328 9.5 191333.8 -1813.6  
5329 9.8 191339.5 -1814.1  
5330 9.1 191349.0 -1833.1  
5331 9.0 191350.0 -1840.1  
5332 9.0 191413.6 -1850.2  
5333 9.6 191424.1 -1826.2

5334 9.8 191426.2 -1827.3  
5335 8.5 191429.4 -1815.5  
5336 9.8 191450.6 -1829.2  
5337 9.5 191453.6 -1844.5  
5338 9.0 191500.4 -1816.0  
5339 9.0 191501.8 -1815.8  
5340 9.0 191503.9 -1816.4  
5341 8.5 191504.2 -1807.8  
5342 9.0 191524.0 -1846.2  
5343 9.4 191536.4 -1841.2

5344 9.5 191540.6 -1838.5  
5345 9.5 191544.2 -1810.3  
5346 8.5 191548.7 -1803.9  
5347 9.5 191554.8 -1807.5  
5348 9.0 191555.2 -1851.5  
5349 10. 191557.6 -1842.4  
5350 9.3 191608.2 -1813.0  
5351 8.0 191622.7 -1853.2  
5352 9.3 191627.4 -1832.8  
5353 9.5 191630.1 -1814.9

5354 9.0 191631.4 -1818.7  
5355 9.0 191635.5 -1841.2  
5356 7.2 191640.4 -1850.1  
5357 9.5 191640.9 -1854.9  
5358 10. 191710.1 -1817.0  
5359 9.5 191711.4 -1851.3  
5360 9.3 191718.6 -1835.6  
5361 9.0 191721.0 -1835.9  
5362 9.3 191722.6 -1838.9  
5363 9.5 191803.9 -1856.0

5364 10. 191808.6 -1847.4  
5365 9.5 191825.1 -1837.0  
5366 9.3 191829.8 -1823.8  
5367 9.0 191834.9 -1820.1  
5368 9.7 191838.9 -1828.7  
5369 9.5 191840.6 -1825.4  
5370 9.8 191850.5 -1857.7  
5371 9.5 191852.7 -1809.2  
5372 9.5 191854.4 -1811.4  
5373 7.3 191913.6 -1838.1

5374 9.3 191923.9 -1827.1  
5375 9.5 191939.0 -1825.3  
5376 7.0 191939.4 -1838.7  
5377 9.5 192000.1 -1820.0  
5378 8.8 192003.5 -1800.8  
5379 9.5 192005.2 -1805.4  
5380 8.5 192010.7 -1807.7  
5381 9.0 192039.6 -1821.7  
5382 9.8 192046.0 -1829.1  
5383 9.8 192046.1 -1842.2

5384 9.1 192050.7 -1817.3  
5385 9.7 192101.1 -1842.8  
5386 9.2 192119.2 -1819.4  
5387 9.2 192119.6 -1832.0  
5388 9.0 192121.1 -1822.3  
5389 7.7 192143.7 -1832.4  
5390 9.5 192145.7 -1844.0  
5391 9.0 192155.5 -1851.9  
5392 10. 192155.6 -1850.7  
5393 9.8 192159.3 -1814.7

5394 9.1 192203.4 -1827.4  
5395 8.9 192208.0 -1831.3  
5396 9.2 192219.2 -1819.4  
5397 7.5 192237.7 -1836.9  
5398 9.3 192237.7 -1843.6  
5399 9.6 192241.7 -1839.7  
5400 9.5 192243.3 -1812.5  
5401 9.5 192250.7 -1823.9  
5402 9.6 192257.1 -1847.0  
5403 9.5 192303.2 -1842.0  
5404 8.3 192316.7 -1844.5

5405 8.3 192330.6 -1857.5  
5406 9.6 192341.2 -1826.6  
5407 9.6 192349.0 -1807.3  
5408 9.7 192400.8 -1832.3  
5409 10. 192421.2 -1813.2  
5410 9.9 192437.7 -1836.8  
5411 9.3 192500.4 -1803.1  
5412 9.2 192502.2 -1827.0  
5413 8.2 192507.6 -1855.1

5414 9.5 192509.0 -1855.4  
5415 9.3 192512.8 -1844.6  
5416 9.5 192541.9 -1800.5  
5417 8.8 192549.8 -1811.7  
5418 9.5 192554.3 -1804.1  
5419 8.9 192609.4 -1829.1  
5420 8.7 192618.4 -1824.6  
5421 9.5 192625.9 -1820.4  
5422 9.1 192638.6 -1853.1  
5423 9.5 192642.3 -1809.9

5424 9.6 192703.6 -1852.0  
5425 9.5 192706.3 -1810.2  
5426 9.3 192709.6 -1852.0  
5427 9.5 192741.1 -1829.2  
5428 9.5 192745.2 -1831.7  
5429 9.5 192806.6 -1850.5  
5430 9.0 192819.3 -1825.2  
5431 9.4 192830.5 -1818.9  
5432 5.4 192838.3 -1832.8  
5433 9.6 192920.3 -1842.8

5434 9.6 192921.9 -1808.1  
5435 9.6 192950.4 -1855.7  
5436 9.0 193001.7 -1827.2  
5437 9.8 193006.8 -1819.1  
5438 9.5 193010.9 -1856.6  
5439 8.0 193024.6 -1816.7  
5440 9.3 193032.0 -1837.3  
5441 9.5 193048.9 -1855.2  
5442 9.5 193058.4 -1848.0  
5443 9.6 193059.0 -1839.8

5444 9.6 193117.8 -1859.9  
5445 9.8 193122.0 -1847.6  
5446 9.7 193128.0 -1829.2  
5447 8.0 193152.3 -1813.3  
5448 8.0 193153.2 -1838.6  
5449 9.5 193156.4 -1854.9  
5450 9.5 193220.2 -1830.8  
5451 9.3 193225.7 -1829.3  
5452 9.4 193232.5 -1825.2  
5453 9.5 193254.3 -1823.4

-18 5453 19h32m



|                            |                            |                            |                            |
|----------------------------|----------------------------|----------------------------|----------------------------|
| 5454 9.8 193312.6 -1831.3  | 5454 8.5 194941.3 -1840.4  | 5634 9.5 200811.7 -1823.7  | 5724 9.7 202352.2 -1812.2  |
| 5455 9.5 193319.4 -1810.4  | 5455 9.1 194955.1 -1828.8  | 5635 9.1 200816.3 -1851.0  | 5725 10.1 202559.9 -1810.4 |
| 5456 9.0 193334.4 -1841.6  | 5456 10.0 194955.3 -1820.6 | 5636 9.0 200836.0 -1828.6  | 5726 9.4 202503.3 -1815.8  |
| 5457 8.8 193343.9 -1819.1  | 5457 9.5 194957.4 -1807.2  | 5637 7.2 200840.4 -1852.2  | 5727 9.3 202508.1 -1816.5  |
| 5458 8.9 193402.4 -1851.4  | 5458 9.6 195006.0 -1835.4  | 5638 9.1 200928.0 -1829.7  | 5728 9.5 202519.7 -1839.0  |
| 5459 9.5 193417.4 -1819.6  | 5459 8.3 195011.3 -1845.9  | 5639 5.2 200935.2 -1815.9  | 5729 9.4 202526.0 -1803.5  |
| 5460 8.3 193426.9 -1832.2  | 5460 8.9 195028.3 -1835.3  | 5640 8.5 200938.1 -1839.1  | 5730 9.7 202535.8 -1828.4  |
| 5461 9.5 193430.2 -1830.7  | 5461 9.3 195030.2 -1844.1  | 5641 9.2 200939.0 -1807.4  | 5731 9.4 202555.5 -1800.3  |
| 5462 9.0 193432.0 -1851.8  | 5462 9.5 195031.8 -1822.5  | 5642 9.5 200941.0 -1804.3  | 5732 9.3 203011.9 -1833.3  |
| 5463 9.8 193521.7 -1809.5  | 5463 8.0 195041.6 -1820.7  | 5643 7.5 200941.6 -1842.2  | 5733 9.3 203025.9 -1821.8  |
| 5464 9.8 193534.8 -1859.1  | 5464 9.3 195045.8 -1836.1  | 5644 8.8 201007.2 -1800.2  | 5734 9.4 203050.0 -1811.7  |
| 5465 10.1 193600.8 -1803.8 | 5465 9.5 195103.1 -1813.7  | 5645 9.0 201025.8 -1846.5  | 5735 9.5 203100.1 -1857.1  |
| 5466 9.8 193605.7 -1809.5  | 5466 9.5 195113.4 -1827.3  | 5646 7.9 201026.2 -1818.1  | 5736 9.5 203132.6 -1857.4  |
| 5467 9.8 193606.6 -1825.0  | 5467 9.0 195114.2 -1801.0  | 5647 9.5 201040.6 -1848.6  | 5737 10.1 203144.3 -1815.5 |
| 5468 9.8 193620.6 -1835.0  | 5468 9.5 195121.3 -1836.8  | 5648 9.5 201058.6 -1848.5  | 5738 5.5 203147.0 -1838.4  |
| 5469 8.5 193621.9 -1852.4  | 5469 9.3 195201.6 -1809.6  | 5649 9.1 201058.8 -1854.6  | 5739 9.8 203156.7 -1857.2  |
| 5470 8.3 193637.6 -1829.8  | 5470 9.9 195213.9 -1856.9  | 5650 10.1 201139.8 -1807.8 | 5740 9.7 203200.2 -1833.8  |
| 5471 9.0 193637.6 -1823.5  | 5471 9.3 195218.5 -1820.6  | 5651 7.5 201234.4 -1836.2  | 5741 9.8 203219.0 -1842.9  |
| 5472 9.5 193705.0 -1848.4  | 5472 9.7 195220.4 -1820.5  | 5652 9.0 201237.5 -1855.9  | 5742 9.8 203238.3 -1850.2  |
| 5473 9.1 193707.2 -1836.5  | 5473 8.3 195221.3 -1840.8  | 5653 7.5 201241.5 -1846.6  | 5743 8.7 203242.9 -1818.2  |
| 5474 9.3 193712.0 -1806.1  | 5474 9.0 195223.3 -1820.9  | 5654 9.3 201313.1 -1804.3  | 5744 9.9 203254.3 -1841.1  |
| 5475 9.5 193727.5 -1839.7  | 5475 10.1 195249.3 -1826.8 | 5655 9.8 201331.7 -1835.8  | 5745 9.4 203259.0 -1811.6  |
| 5476 9.1 193744.3 -1858.9  | 5476 9.5 195250.3 -1841.1  | 5656 9.4 201345.1 -1847.8  | 5746 9.1 203305.5 -1806.0  |
| 5477 9.1 193748.6 -1810.1  | 5477 9.7 195257.8 -1827.7  | 5657 9.8 201355.0 -1859.7  | 5747 9.8 203310.7 -1851.7  |
| 5478 9.0 193754.4 -1822.7  | 5478 9.6 195304.9 -1827.9  | 5658 9.5 201409.3 -1817.4  | 5748 8.8 203313.3 -1829.2  |
| 5479 9.5 193802.2 -1821.2  | 5479 9.4 195314.4 -1803.0  | 5659 9.3 201439.1 -1803.9  | 5749 9.0 203314.8 -1808.6  |
| 5480 9.1 193802.3 -1830.2  | 5480 9.0 195339.1 -1817.5  | 5660 7.5 201448.9 -1847.9  | 5750 8.4 203344.1 -1823.6  |
| 5481 9.8 193808.1 -1817.4  | 5481 9.5 195342.0 -1853.4  | 5661 9.7 201452.6 -1808.8  | 5751 9.5 203345.5 -1846.2  |
| 5482 9.5 193830.9 -1822.3  | 5482 9.4 195344.7 -1801.9  | 5662 9.5 201501.9 -1833.2  | 5752 9.5 203359.6 -1810.8  |
| 5483 9.3 193850.6 -1842.6  | 5483 9.8 195403.8 -1840.4  | 5663 8.7 201515.7 -1840.4  | 5753 9.5 203423.9 -1846.0  |
| 5484 9.3 193853.1 -1828.6  | 5484 8.7 195411.1 -1818.1  | 5664 9.3 201536.8 -1834.6  | 5754 7.5 203425.1 -1837.1  |
| 5485 9.1 193855.5 -1846.2  | 5485 9.0 195425.6 -1837.4  | 5665 9.5 201542.2 -1848.2  | 5755 10.1 203433.5 -1818.3 |
| 5486 9.4 193916.4 -1857.1  | 5486 8.5 195427.3 -1834.4  | 5666 9.7 201545.7 -1839.8  | 5756 9.7 203437.3 -1824.0  |
| 5487 8.1 193929.0 -1845.4  | 5487 9.0 195428.8 -1837.1  | 5667 9.6 201549.2 -1837.3  | 5757 9.6 203442.7 -1826.5  |
| 5488 9.1 193929.4 -1823.0  | 5488 7.3 195433.2 -1856.4  | 5668 9.0 201554.1 -1849.8  | 5758 9.9 203445.8 -1829.6  |
| 5489 9.5 193939.2 -1829.6  | 5489 10.1 195443.5 -1826.5 | 5669 9.8 201619.3 -1809.0  | 5759 9.7 203453.0 -1846.3  |
| 5490 8.6 193939.9 -1859.8  | 5490 9.5 195446.9 -1855.7  | 5670 9.8 201625.0 -1857.4  | 5760 9.7 203508.5 -1816.9  |
| 5491 10.1 193951.2 -1845.2 | 5491 7.5 195452.4 -1838.2  | 5671 9.0 201630.4 -1802.5  | 5761 9.1 203515.1 -1844.3  |
| 5492 10.1 193952.1 -1834.3 | 5492 9.5 195516.3 -1841.2  | 5672 9.0 201641.8 -1818.7  | 5762 9.7 203525.4 -1852.9  |
| 5493 9.8 194009.9 -1833.3  | 5493 9.5 195543.2 -1852.7  | 5673 9.2 201642.3 -1820.9  | 5763 9.2 203540.0 -1814.9  |
| 5494 9.5 194019.0 -1811.6  | 5494 9.2 195545.1 -1804.7  | 5674 9.8 201650.1 -1846.7  | 5764 9.5 203544.4 -1813.8  |
| 5495 9.7 194021.5 -1808.4  | 5495 9.8 195631.7 -1825.7  | 5675 9.4 201717.0 -1820.1  | 5765 9.8 203546.9 -1846.3  |
| 5496 9.5 194034.3 -1828.3  | 5496 8.9 195638.1 -1811.4  | 5676 9.4 201719.0 -1823.2  | 5766 10.1 203557.7 -1840.9 |
| 5497 9.5 194040.6 -1845.9  | 5497 9.5 195642.7 -1839.4  | 5677 9.2 201721.3 -1810.9  | 5767 9.5 203602.6 -1817.2  |
| 5498 10.1 194056.8 -1841.1 | 5498 9.2 195700.0 -1824.3  | 5678 9.0 201721.8 -1813.6  | 5768 9.6 203634.0 -1822.0  |
| 5499 9.3 194100.9 -1842.9  | 5499 8.9 195708.1 -1815.6  | 5679 9.5 201721.8 -1809.6  | 5769 9.5 203657.5 -1832.4  |
| 5500 9.7 194114.2 -1842.6  | 5500 9.0 195716.7 -1806.6  | 5680 8.0 201735.1 -1857.2  | 5770 9.6 203711.2 -1832.0  |
| 5501 9.4 194117.0 -1807.4  | 5501 9.7 195751.3 -1851.6  | 5681 8.3 201806.1 -1849.7  | 5771 9.1 203744.3 -1849.6  |
| 5502 9.5 194132.8 -1827.3  | 5502 9.7 195803.7 -1824.9  | 5682 9.4 201812.8 -1818.1  | 5772 10.1 203748.4 -1801.3 |
| 5503 8.8 194146.2 -1812.7  | 5503 8.0 195810.4 -1843.0  | 5683 9.5 201837.8 -1842.0  | 5773 9.7 203819.1 -1828.4  |
| 5504 8.0 194151.4 -1818.7  | 5504 9.5 195820.2 -1851.0  | 5684 8.5 201844.1 -1815.1  | 5774 9.0 203857.8 -1831.1  |
| 5505 9.8 194207.9 -1853.6  | 5505 9.1 195826.6 -1800.5  | 5685 5.4 201900.7 -1840.8  | 5775 9.3 203917.6 -1853.4  |
| 5506 9.5 194251.2 -1829.6  | 5506 9.5 195829.1 -1811.7  | 5686 8.8 201933.6 -1831.7  | 5776 9.5 203929.9 -1827.8  |
| 5507 9.5 194253.5 -1818.7  | 5507 9.5 195830.5 -1827.6  | 5687 9.0 201958.9 -1853.7  | 5777 9.5 203940.6 -1854.7  |
| 5508 9.0 194257.6 -1840.6  | 5508 8.8 195838.6 -1814.1  | 5688 8.9 202007.4 -1827.5  | 5778 8.5 204010.2 -1843.5  |
| 5509 9.8 194314.4 -1828.5  | 5509 10.1 195854.3 -1847.2 | 5689 5.1 202035.0 -1817.2  | 5779 8.1 204011.0 -1843.7  |
| 5510 10.1 194345.0 -1801.9 | 5510 9.5 195859.1 -1858.5  | 5690 9.5 202037.1 -1828.6  | 5780 9.5 204025.0 -1826.5  |
| 5511 9.3 194357.7 -1821.3  | 5511 10.1 195902.4 -1840.6 | 5691 7.3 202044.0 -1820.8  | 5781 9.4 204046.4 -1838.4  |
| 5512 9.8 194411.0 -1834.0  | 5512 9.1 195919.0 -1807.4  | 5692 9.3 202116.1 -1842.1  | 5782 9.0 204104.8 -1845.2  |
| 5513 8.5 194411.4 -1842.4  | 5513 9.1 195925.9 -1819.5  | 5693 10.1 202127.2 -1847.8 | 5783 6.7 204106.1 -1835.9  |
| 5514 9.4 194415.0 -1842.9  | 5514 9.0 195950.0 -1839.8  | 5694 9.8 202134.0 -1813.3  | 5784 9.3 204131.9 -1828.7  |
| 5515 9.1 194415.3 -1800.5  | 5515 9.7 200005.3 -1848.2  | 5695 9.5 202145.5 -1801.3  | 5785 9.4 204132.4 -1817.3  |
| 5516 9.6 194422.3 -1805.6  | 5516 9.4 200014.7 -1812.4  | 5696 9.5 202146.1 -1820.3  | 5786 9.5 204132.5 -1807.5  |
| 5517 9.5 194441.9 -1834.8  | 5517 8.7 200027.9 -1826.6  | 5697 9.8 202146.7 -1854.3  | 5787 9.5 204146.1 -1850.2  |
| 5518 9.3 194443.2 -1821.7  | 5518 9.5 200058.6 -1816.5  | 5698 9.4 202149.6 -1824.6  | 5788 9.1 204153.5 -1838.5  |
| 5519 9.8 194450.0 -1815.5  | 5519 8.0 200121.4 -1845.8  | 5699 9.1 202159.2 -1830.8  | 5789 9.8 204156.7 -1812.2  |
| 5520 8.5 194501.9 -1816.7  | 5520 9.9 200124.1 -1826.5  | 5700 9.2 202228.0 -1842.7  | 5790 8.8 204235.3 -1846.4  |
| 5521 9.5 194526.7 -1828.4  | 5521 9.5 200124.9 -1807.3  | 5701 9.7 202230.1 -1838.5  | 5791 9.4 204247.1 -1832.4  |
| 5522 9.5 194533.5 -1819.6  | 5522 10.1 200216.4 -1827.7 | 5702 9.2 202247.3 -1846.4  | 5792 8.7 204247.8 -1817.5  |
| 5523 10.1 194538.3 -1805.2 | 5523 9.5 200235.3 -1849.9  | 5703 9.8 202251.2 -1822.1  | 5793 9.5 204251.1 -1800.9  |
| 5524 9.0 194639.7 -1829.3  | 5524 9.3 200248.9 -1836.6  | 5704 9.3 202259.6 -1822.7  | 5794 9.6 204251.6 -1830.5  |
| 5525 9.4 194650.2 -1833.5  | 5525 8.8 200257.2 -1814.6  | 5705 8.2 202307.4 -1834.1  | 5795 8.0 204318.2 -1802.6  |
| 5526 9.5 194614.1 -1849.0  | 5526 9.3 200308.8 -1859.6  | 5706 9.1 202333.7 -1837.7  | 5796 9.8 204353.6 -1813.3  |
| 5527 9.4 194625.2 -1846.2  | 5527 9.5 200325.9 -1842.3  | 5707 9.3 202442.7 -1820.4  | 5797 9.8 204404.3 -1803.0  |
| 5528 9.5 194640.2 -1814.6  | 5528 7.8 200355.1 -1834.3  | 5708 9.1 202520.6 -1853.4  | 5798 9.5 204421.2 -1816.0  |
| 5529 9.4 194658.0 -1849.8  | 5529 8.5 200400.9 -1844.5  | 5709 10.1 202531.0 -1854.9 | 5799 9.6 204422.4 -1847.5  |
| 5530 10.1 194708.2 -1841.8 | 5530 9.4 200432.7 -1821.5  | 5710 9.4 202539.5 -1855.1  | 5800 9.7 204444.3 -1806.0  |
| 5531 9.8 194719.5 -1821.1  | 5531 9.3 200509.0 -1841.3  | 5711 9.7 202613.2 -1825.0  | 5801 9.5 204517.8 -1807.2  |
| 5532 9.7 194751.7 -1843.4  | 5532 8.8 200513.5 -1848.2  | 5712 9.4 202620.2 -1826.3  | 5802 9.3 204518.9 -1821.1  |
| 5533 9.8 194757.8 -1812.5  | 5533 8.5 200521.4 -1850.4  | 5713 9.2 202627.3 -1845.8  | 5803 9.4 204528.5 -1855.6  |
| 5534 9.1 194804.8 -1829.3  | 5534 8.0 200540.2 -1806.5  | 5714 8.5 202708.8 -1816.4  | 5804 9.1 204628.1 -1842.0  |
| 5535 9.5 194805.3 -1827.3  | 5535 9.2 200553.0 -1834.0  | 5715 9.8 202713.9 -1805.0  | 5805 6.3 204636.1 -1828.1  |
| 5536 8.9 194819.1 -1818.0  | 5536 7.8 200608.3 -1831.4  | 5716 9.2 202717.8 -1813.1  | 5806 9.4 204639.4 -1809.0  |
| 5537 8.5 194826.2 -1807.4  | 5537 9.3 200615.5 -1839.0  | 5717 10.1 202732.0 -1822.6 | 5807 9.5 204706.2 -1859.6  |
| 5538 8.8 194826.7 -1838.1  | 5538 9.8 200638.5 -1848.4  | 5718 9.1 202738.8 -1827.7  | 5808 9.8 204740.1 -1837.9  |
| 5539 8.5 194836.5 -1844.5  | 5539 9.5 200651.0 -1807.7  | 5719 9.7 202750.0 -1858.4  | 5809 10.1 204830.4 -1817.6 |
| 5540 9.4 194836.6 -1852.5  | 5540 9.1 200705.0 -1843.3  | 5720 9.8 202810.0 -1839.0  | 5810 9.5 204837.4 -1845.5  |
| 5541 9.5 194855.8 -1840.0  | 5541 10.1 200714.0 -1852.7 | 5721 9.5 202813.1 -1852.2  | 5811 9.1 204845.9 -1804.3  |
| 5542 9.4 194922.5 -1815.0  | 5542 9.3 200737.0 -1806.0  | 5722 9.6 202817.4 -1801.9  | 5812 9.5 204853.5 -1840.1  |
| 5543 9.7 194936.3 -1839.2  | 5543 9.6 200808.2 -1807.7  | 5723 9.5 202834.8 -1833.0  | 5813 10.1 204858.8 -1814.0 |



5814 9.8 204900.1 -1853.5  
 5815 9.3 204909.8 -1823.7  
 5816 8.8 204920.3 -1817.0  
 5817 9.6 205008.7 -1832.5  
 5818 9.8 205024.7 -1841.2  
 5819 8.8 205053.2 -1825.3  
 5820 9.8 205126.5 -1822.8  
 5821 9.2 205128.5 -1801.6  
 5822 9.5 205138.2 -1832.5  
 5823 9.4 205139.4 -1857.5

5824 9.4 205140.4 -1823.9  
 5825 9.3 205141.5 -1855.0  
 5826 10. 205146.9 -1820.8  
 5827 9.5 205152.5 -1811.0  
 5828 9.6 205156.0 -1827.6  
 5829 9.0 205225.5 -1813.3  
 5830 9.5 205227.9 -1830.7  
 5831 6.3 205241.5 -1805.3  
 5832 9.7 205241.9 -1828.0  
 5833 9.5 205242.2 -1816.3

5834 9.8 205322.6 -1808.9  
 5835 9.5 205329.9 -1830.1  
 5836 9.1 205342.7 -1843.5  
 5837 9.6 205345.4 -1824.3  
 5838 9.7 205415.0 -1804.4  
 5839 9.3 205417.9 -1831.9  
 5840 9.0 205418.3 -1810.3  
 5841 9.5 205430.0 -1835.2  
 5842 9.1 205447.4 -1858.9  
 5843 9.4 205453.2 -1847.1

5844 8.5 205510.1 -1802.2  
 5845 10. 205522.5 -1823.9  
 5846 9.5 205522.6 -1816.0  
 5847 9.3 205539.3 -1841.1  
 5848 9.1 205546.2 -1843.1  
 5849 8.0 205550.8 -1840.6  
 5850 9.0 205556.6 -1848.4  
 5851 8.7 205611.6 -1806.0  
 5852 9.8 205631.0 -1817.7  
 5853 9.6 205637.4 -1833.4

5854 9.8 205713.6 -1804.5  
 5855 9.8 205747.3 -1847.5  
 5856 9.8 205800.1 -1830.2  
 5857 9.5 205801.3 -1846.0  
 5858 9.8 205859.2 -1804.5  
 5859 9.8 205905.7 -1827.5  
 5860 8.2 205924.6 -1833.8  
 5861 9.6 205930.4 -1847.9  
 5862 7.2 205936.2 -1802.1  
 5863 9.7 205937.0 -1805.8

5864 9.5 205945.6 -1807.1  
 5865 9.4 205954.5 -1857.8  
 5866 9.4 210014.6 -1846.8  
 5867 9.5 210037.6 -1837.2  
 5868 9.7 210045.1 -1811.7  
 5869 9.8 210131.2 -1816.8  
 5870 9.5 210131.5 -1859.4  
 5871 9.5 210208.6 -1834.9  
 5872 9.5 210212.3 -1836.4  
 5873 9.4 210213.9 -1826.7

5874 10. 210219.1 -1835.5  
 5875 8.0 210221.7 -1855.0  
 5876 9.4 210232.7 -1851.2  
 5877 9.4 210236.2 -1849.6  
 5878 8.9 210236.6 -1803.7  
 5879 9.1 210319.8 -1837.5  
 5880 9.4 210337.3 -1808.2  
 5881 9.5 210339.4 -1847.6  
 5882 9.3 210341.1 -1856.8  
 5883 9.1 210353.2 -1847.6

5884 9.4 210426.8 -1859.2  
 5885 9.5 210441.4 -1825.6  
 5886 8.3 210539.8 -1809.2  
 5887 9.4 210546.2 -1836.8  
 5888 9.0 210550.3 -1812.3  
 5889 9.4 210605.2 -1834.3  
 5890 9.4 210611.8 -1843.3  
 5891 8.3 210621.4 -1830.1  
 5892 9.1 210651.9 -1810.6  
 5893 8.8 210658.7 -1842.0

5894 9.9 210700.2 -1948.7  
 5895 9.5 210707.8 -1839.1  
 5896 9.7 210712.3 -1808.2  
 5897 10. 210801.9 -1813.3  
 5898 9.7 210803.3 -1837.2  
 5899 9.7 210858.4 -1857.2  
 5900 9.3 210919.3 -1841.2  
 5901 9.4 210924.8 -1842.3  
 5902 9.1 210935.3 -1846.8  
 5903 5.8 210948.0 -1835.2

5904 7.5 211008.4 -1804.0  
 5905 9.1 211026.5 -1808.4  
 5906 9.5 211039.9 -1851.0  
 5907 9.8 211106.4 -1831.0  
 5908 9.5 211118.5 -1821.4  
 5909 9.7 211135.4 -1836.8  
 5910 9.5 211139.0 -1814.5  
 5911 9.4 211208.1 -1824.1  
 5912 9.4 211313.8 -1844.4  
 5913 9.2 211327.9 -1831.5

5914 10. 211355.1 -1804.0  
 5915 9.6 211355.5 -1823.1  
 5916 9.2 211409.0 -1834.4  
 5917 10. 211425.3 -1839.4  
 5918 9.2 211428.1 -1807.4  
 5919 9.4 211428.3 -1811.5  
 5920 9.8 211441.0 -1824.7  
 5921 9.4 211510.0 -1829.3  
 5922 9.0 211517.6 -1854.0  
 5923 9.7 211519.5 -1803.1

5924 9.7 211550.1 -1809.0  
 5925 9.8 211603.9 -1849.6  
 5926 9.4 211612.6 -1854.1  
 5927 9.5 211624.0 -1833.8  
 5928 9.8 211631.4 -1838.2  
 5929 10. 211655.5 -1835.6  
 5930 9.3 211723.1 -1849.1  
 5931 9.5 211730.1 -1852.0  
 5932 10. 211743.6 -1800.0  
 5933 10. 211756.0 -1825.8

5934 9.4 211804.9 -1832.8  
 5935 8.8 211809.2 -1846.2  
 5936 8.8 211826.9 -1830.2  
 5937 9.8 211830.6 -1800.2  
 5938 9.4 211847.6 -1804.6  
 5939 9.3 211851.1 -1840.8  
 5940 9.3 211920.4 -1822.5  
 5941 9.5 211921.2 -1859.7  
 5942 9.5 211942.9 -1822.3  
 5943 9.6 212118.0 -1836.6

5944 9.8 212120.0 -1850.8  
 5945 10. 212123.2 -1844.3  
 5946 9.0 212144.2 -1858.6  
 5947 9.5 212218.7 -1843.0  
 5948 9.5 212226.7 -1827.0  
 5949 9.8 212235.2 -1805.6  
 5950 10. 212236.0 -1846.4  
 5951 8.9 212255.7 -1818.1  
 5952 9.3 212302.3 -1844.6  
 5953 9.1 212306.8 -1846.2

5954 9.8 212312.2 -1811.9  
 5955 9.7 212323.9 -1834.0  
 5956 9.5 212351.8 -1834.1  
 5957 9.2 212400.8 -1852.4  
 5958 9.1 212452.9 -1812.6  
 5959 9.4 212457.8 -1833.7  
 5960 9.1 212543.5 -1836.4  
 5961 9.5 212547.7 -1828.7  
 5962 9.0 212547.8 -1830.0  
 5963 9.2 212558.9 -1813.6

5964 9.8 212616.3 -1829.4  
 5965 9.2 212628.2 -1827.0  
 5966 10. 212635.1 -1839.7  
 5967 9.6 212723.8 -1829.2  
 5968 9.5 212733.5 -1845.8  
 5969 9.5 212759.9 -1839.5  
 5970 9.7 212814.8 -1823.1  
 5971 9.3 212824.4 -1848.6  
 5972 9.5 212827.8 -1831.0  
 5973 9.4 212829.9 -1836.7

5974 9.7 212833.7 -1809.0  
 5975 9.5 212833.9 -1821.1  
 5976 9.4 212842.0 -1808.3  
 5977 9.5 212848.9 -1803.6  
 5978 9.2 212850.4 -1807.3  
 5979 9.8 212905.9 -1808.7  
 5980 9.3 212950.5 -1810.5  
 5981 9.2 212955.0 -1858.8  
 5982 10. 213005.6 -1848.0  
 5983 9.8 213015.2 -1818.0

5984 9.4 213046.0 -1807.4  
 5985 9.3 213118.9 -1800.8  
 5986 9.1 213128.5 -1846.0  
 5987 9.6 213136.4 -1817.5  
 5988 9.6 213150.6 -1841.2  
 5989 9.2 213207.2 -1835.2  
 5990 9.5 213209.2 -1844.8  
 5991 9.5 213229.5 -1832.1  
 5992 8.9 213230.9 -1815.0  
 5993 9.6 213304.5 -1807.3

5994 9.1 213308.9 -1812.5  
 5995 9.6 213421.5 -1802.9  
 5996 9.1 213449.1 -1858.2  
 5997 9.5 213519.4 -1824.8  
 5998 8.2 213530.0 -1802.8  
 5999 9.5 213548.5 -1844.7  
 6000 9.1 213557.2 -1850.6  
 6001 9.2 213627.5 -1819.8  
 6002 9.8 213722.0 -1825.0  
 6003 8.2 213748.2 -1838.9

6004 9.5 213754.7 -1850.5  
 6005 9.3 213802.6 -1814.2  
 6006 9.5 213814.1 -1849.7  
 6007 7.5 213825.0 -1835.0  
 6008 8.3 213837.4 -1849.0  
 6009 9.5 213902.7 -1853.0  
 6010 9.8 213909.1 -1818.0  
 6011 9.8 213921.5 -1852.4  
 6012 9.4 213926.0 -1831.7  
 6013 7.7 213942.0 -1852.8

6014 9.3 214014.2 -1817.1  
 6015 9.9 214039.1 -1807.4  
 6016 9.5 214089.9 -1825.8  
 6017 9.4 214111.8 -1852.2  
 6018 9.8 214226.1 -1804.3  
 6019 9.5 214232.4 -1833.9  
 6020 9.1 214237.3 -1841.4  
 6021 9.8 214359.9 -1827.1  
 6022 9.7 214405.3 -1834.8  
 6023 9.7 214409.9 -1807.8

6024 9.4 214454.8 -1807.2  
 6025 9.0 214529.4 -1814.0  
 6026 9.7 214548.1 -1835.3  
 6027 9.5 214557.8 -1802.8  
 6028 9.5 214607.4 -1801.9  
 6029 8.5 214612.6 -1815.6  
 6030 9.4 214703.3 -1823.7  
 6031 9.4 214710.3 -1822.3  
 6032 9.0 214721.3 -1855.6  
 6033 9.6 214736.5 -1844.5

6034 9.7 214815.2 -1855.5  
 6035 9.4 214829.4 -1807.8  
 6036 9.5 214840.4 -1818.9  
 6037 6.8 214846.3 -1834.8  
 6038 9.2 214848.8 -1812.3  
 6039 9.7 214906.9 -1850.6  
 6040 10. 214933.9 -1835.1  
 6041 9.5 214936.2 -1847.6  
 6042 8.8 215006.5 -1818.3  
 6043 9.6 215007.0 -1812.7

6044 9.5 215047.1 -1800.9  
 6045 9.3 215053.6 -1805.8  
 6046 9.2 215109.7 -1802.0  
 6047 8.0 215128.8 -1840.9  
 6048 9.2 215136.5 -1853.8  
 6049 9.5 215137.2 -1848.8  
 6050 9.2 215137.8 -1844.6  
 6051 9.8 215211.1 -1817.3  
 6052 7.8 215211.3 -1804.5  
 6053 8.2 215320.6 -1812.8

6054 9.6 215333.1 -1807.4  
 6055 8.9 215348.7 -1808.8  
 6056 6.8 215412.5 -1835.8  
 6057 9.8 215415.2 -1823.3  
 6058 9.4 215447.3 -1802.1  
 6059 8.7 215459.7 -1807.5  
 6060 9.8 215531.0 -1843.1  
 6061 8.2 215613.2 -1830.6  
 6062 10. 215618.7 -1814.2  
 6063 9.5 215647.8 -1815.3

6064 9.3 215650.3 -1816.4  
 6065 9.1 215718.7 -1823.9  
 6066 9.8 215719.9 -1830.1  
 6067 9.4 215746.4 -1805.5  
 6068 9.4 215748.9 -1826.1  
 6069 9.0 215756.1 -1847.9  
 6070 9.2 215823.6 -1833.9  
 6071 9.5 215902.3 -1827.8  
 6072 8.5 215955.1 -1838.1  
 6073 9.4 215957.4 -1805.4

6074 9.4 220010.4 -1832.6  
 6075 7.8 220017.0 -1832.0  
 6076 9.1 220100.0 -1836.5  
 6077 9.0 220158.7 -1836.8  
 6078 8.6 220208.7 -1842.2  
 6079 9.4 220228.0 -1811.2  
 6080 9.8 220242.0 -1814.6  
 6081 9.8 220316.0 -1816.1  
 6082 9.1 220351.3 -1841.0  
 6083 9.4 220421.8 -1850.3

6084 8.5 220437.8 -1844.0  
 6085 9.3 220504.0 -1807.7  
 6086 9.5 220539.2 -1803.4  
 6087 9.2 220639.9 -1827.5  
 6088 10. 220719.6 -1838.7  
 6089 9.8 220720.6 -1833.0  
 6090 9.8 220727.9 -1838.7  
 6091 9.6 220741.4 -1841.5  
 6092 9.3 220743.6 -1813.4  
 6093 9.4 220747.8 -1851.5

6094 9.3 220815.7 -1814.3  
 6095 9.6 220839.9 -1842.1  
 6096 8.0 220937.7 -1852.6  
 6097 9.9 220938.0 -1841.9  
 6098 9.6 221005.0 -1855.5  
 6099 9.3 221011.5 -1842.5  
 6100 9.8 221038.3 -1834.7  
 6101 9.6 221112.8 -1830.4  
 6102 9.3 221154.1 -1858.1  
 6103 8.5 221204.3 -1811.2

6104 9.5 221232.4 -1835.1  
 6105 9.8 221308.9 -1804.2  
 6106 9.6 221354.6 -1848.9  
 6107 9.5 221357.2 -1846.7  
 6108 9.6 221402.8 -1831.4  
 6109 9.2 221410.9 -1809.6  
 6110 9.5 221450.7 -1846.9  
 6111 10. 221546.0 -1821.4  
 6112 9.8 221602.4 -1831.9  
 6113 9.6 221617.1 -1856.8

6114 8.0 221641.3 -1819.5  
 6115 9.1 221645.6 -1842.1  
 6116 9.3 221735.0 -1808.6  
 6117 9.8 221738.4 -1846.3  
 6118 8.5 221817.0 -1815.3  
 6119 8.5 221825.0 -1844.3  
 6120 9.2 221825.1 -1804.3  
 6121 8.9 221836.5 -1815.3  
 6122 9.1 221839.6 -1827.3  
 6123 9.7 221846.4 -1811.3

6124 9.4 221856.5 -1822.0  
 6125 9.8 221904.5 -1809.9  
 6126 9.0 221906.6 -1831.2  
 6127 10. 221927.0 -1834.1  
 6128 9.2 221932.4 -1824.5  
 6129 8.0 221957.8 -1800.6  
 6130 9.0 222011.7 -1852.4  
 6131 9.9 222037.3 -1843.9  
 6132 9.8 222051.6 -1826.1  
 6133 9.1 222059.7 -1829.1

6134 9.5 222244.9 -1841.5  
 6135 8.8 222247.8 -1830.1  
 6136 9.3 222250.4 -1823.4  
 6137 9.5 222359.7 -1815.2  
 6138 9.0 222418.6 -1823.4  
 6139 10. 222458.2 -1821.8  
 6140 7.8 222513.3 -1814.8  
 6141 8.8 222516.2 -1810.6  
 6142 8.2 222532.2 -1830.8  
 6143 9.8 222550.8 -1815.1

6144 9.7 222552.0 -1835.0  
 6145 8.8 222641.3 -1815.4  
 6146 8.8 222651.4 -1853.1  
 6147 9.5 222658.5 -1841.2  
 6148 9.8 222724.2 -1853.7  
 6149 9.3 222731.3 -1833.9  
 6150 9.3 222737.3 -1834.2  
 6151 8.7 222739.1 -1800.3  
 6152 8.5 222747.0 -1833.3  
 6153 8.1 222751.3 -1822.3

6154 6.5 222759.4 -1812.4  
 6155 9.7 222808.1 -1837.4  
 6156 9.3 222820.4 -1814.4  
 6157 9.5 222831.9 -1855.1  
 6158 9.8 222837.3 -1812.7  
 6159 8.8 222842.8 -1853.3  
 6160 10. 222831.9 -1824.5  
 6161 9.5 223032.8 -1851.5  
 6162 9.5 223112.5 -1846.2  
 6163 8.2 223118.7 -1832.6

6164 10. 223138.4 -1801.0  
 6165 9.3 223153.0 -1809.1  
 6166 9.6 223153.8 -1835.6  
 6167 9.0 223209.6 -1842.6  
 6168 8.7 223214.7 -1833.7  
 6169 9.6 223254.5 -1820.4  
 6170 9.5 223316.1 -1805.2  
 6171 9.6 223344.7 -1850.9  
 6172 9.4 223351.5 -1827.2  
 6173 9.1 223353.8 -1826.8



6174 8.7 223501.6 -1808.5  
 6175 9.3 223514.4 -1848.8  
 6176 8.5 223526.6 -1836.3  
 6177 9.8 223533.2 -1828.1  
 6178 8.3 223601.1 -1821.5  
 6179 9.2 223602.0 -1852.6  
 6180 8.9 223604.8 -1816.9  
 6181 9.5 223625.2 -1852.6  
 6182 9.9 223631.0 -1843.4  
 6183 9.7 223638.7 -1803.3

6184 9.8 224654.6 -1812.4  
 6185 9.4 223809.2 -1815.8  
 6186 9.2 223815.5 -1851.9  
 6187 9.2 223817.4 -1802.6  
 6188 10. 223855.9 -1844.9  
 6189 9.8 223928.4 -1814.6  
 6190 9.2 223929.9 -1835.8  
 6191 9.7 223937.9 -1812.5  
 6192 6.9 223938.6 -1818.6  
 6193 8.8 223941.3 -1820.6

6194 8.3 223949.2 -1851.0  
 6195 8.9 224007.5 -1854.5  
 6196 8.0 224049.8 -1801.0  
 6197 9.5 22410.2 -1835.1  
 6198 9.6 224115.3 -1817.4  
 6199 9.1 224215.6 -1848.2  
 6200 9.8 224210.8 -1803.7  
 6201 9.5 224236.3 -1830.4  
 6202 9.8 224258.8 -1833.5  
 6203 8.8 224307.2 -1834.9

6204 9.8 224321.3 -1828.5  
 6205 9.3 224340.6 -1832.9  
 6206 10. 224440.9 -1805.9  
 6207 9.7 224455.7 -1848.1  
 6208 9.5 224507.9 -1829.1  
 6209 9.1 224532.6 -1837.9  
 6210 9.7 224548.4 -1801.4  
 6211 9.4 224552.4 -1845.7  
 6212 9.0 224606.7 -1802.8  
 6213 8.7 224612.9 -1849.4

6214 9.7 224651.4 -1834.4  
 6215 9.2 224721.0 -1814.6  
 6216 9.4 224728.5 -1817.0  
 6217 8.8 224730.6 -1801.0  
 6218 9.8 224819.9 -1827.0  
 6219 9.5 224825.8 -1824.6  
 6220 9.4 224833.8 -1842.1  
 6221 9.4 224852.3 -1844.3  
 6222 10. 224944.7 -1818.4  
 6223 10. 224952.9 -1823.5

6224 9.2 225019.6 -1816.1  
 6225 8.1 225026.2 -1827.7  
 6226 9.7 225030.5 -1828.0  
 6227 9.9 225057.1 -1833.4  
 6228 10. 225123.2 -1805.5  
 6229 9.5 225128.9 -1822.0  
 6230 9.8 225159.9 -1841.0  
 6231 9.8 225200.3 -1809.1  
 6232 9.5 225227.7 -1825.3  
 6233 9.4 225257.6 -1853.9

6234 9.4 225259.0 -1822.0  
 6235 10. 225340.8 -1821.5  
 6236 9.2 225348.0 -1832.1  
 6237 9.2 225400.2 -1859.8  
 6238 9.5 225404.3 -1831.5  
 6239 9.2 225426.6 -1843.0  
 6240 9.5 225431.3 -1809.2  
 6241 10. 225513.0 -1845.7  
 6242 10. 225513.4 -1834.7  
 6243 8.8 225515.1 -1805.8

6244 9.8 225515.8 -1823.2  
 6245 9.7 225529.8 -1810.0  
 6246 9.7 225534.4 -1817.5  
 6247 9.4 225551.7 -1849.1  
 6248 9.9 225612.9 -1812.6  
 6249 10. 225632.4 -1807.5  
 6250 9.1 225641.5 -1804.4  
 6251 9.3 225654.2 -1847.1  
 6252 10. 225821.0 -1810.5  
 6253 9.5 225927.1 -1804.7

6254 9.6 225938.5 -1858.3  
 6255 9.6 230036.2 -1830.4  
 6256 9.5 230043.9 -1852.4  
 6257 8.5 230113.1 -1813.2  
 6258 8.5 230211.1 -1819.6  
 6259 8.6 230225.6 -1813.8  
 6260 8.7 230234.9 -1825.6  
 6261 9.5 230254.5 -1816.9  
 6262 8.5 230300.4 -1820.6  
 6263 9.8 230317.2 -1830.5

6264 9.8 230328.3 -1800.8  
 6265 9.6 230348.3 -1841.7  
 6266 9.3 230420.5 -1850.2  
 6267 8.9 230444.2 -1808.7  
 6268 9.0 230455.8 -1806.7  
 6269 9.4 230512.5 -1839.0  
 6270 9.5 230549.7 -1826.2  
 6271 8.6 230551.4 -1809.4  
 6272 9.3 230608.8 -1815.9  
 6273 9.6 230611.8 -1810.7

6274 9.0 230640.8 -1809.9  
 6275 9.4 230820.2 -1848.4  
 6276 8.9 230834.2 -1831.5  
 6277 10. 230837.4 -1816.1  
 6278 9.4 230906.7 -1843.1  
 6279 8.0 230912.7 -1804.1  
 6280 7.8 230929.8 -1857.2  
 6281 9.5 230956.0 -1812.5  
 6282 9.7 231000.7 -1819.6  
 6283 6.0 231145.4 -1851.9

6284 9.2 231152.5 -1823.9  
 6285 9.4 231243.2 -1831.5  
 6286 9.7 231246.3 -1829.7  
 6287 9.5 231249.3 -1800.7  
 6288 9.3 231312.8 -1818.6  
 6289 8.5 231319.3 -1822.6  
 6290 10. 231331.6 -1851.6  
 6291 8.8 231344.9 -1818.4  
 6292 9.2 231418.8 -1814.1  
 6293 9.5 231604.9 -1807.5

6294 9.2 231611.8 -1818.0  
 6295 7.8 231615.4 -1834.8  
 6296 9.8 231616.6 -1808.5  
 6297 8.7 231628.4 -1829.7  
 6298 10. 231645.1 -1843.7  
 6299 9.2 231648.5 -1806.9  
 6300 8.5 231656.1 -1825.4  
 6301 9.5 231715.4 -1825.3  
 6302 9.5 231719.2 -1855.4  
 6303 10. 231723.0 -1810.7

6304 8.3 231728.7 -1825.4  
 6305 8.4 231735.0 -1853.0  
 6306 9.1 231749.5 -1804.4  
 6307 9.5 231827.1 -1855.2  
 6308 9.6 231922.7 -1853.8  
 6309 9.4 231936.2 -1843.5  
 6310 9.0 231945.6 -1823.2  
 6311 9.5 232001.1 -1803.2  
 6312 9.5 232004.7 -1846.8  
 6313 9.3 232017.7 -1801.0

6314 9.6 232106.1 -1811.1  
 6315 9.7 232117.9 -1821.6  
 6316 9.2 232129.3 -1853.6  
 6317 8.9 232162.2 -1804.1  
 6318 9.8 232233.2 -1829.3  
 6319 9.2 232233.2 -1804.8  
 6320 9.5 232244.9 -1856.2  
 6321 8.9 232321.3 -1844.6  
 6322 9.2 232328.7 -1812.4  
 6323 9.9 232339.5 -1859.0

6324 10. 232412.9 -1837.5  
 6325 9.7 232414.0 -1815.4  
 6326 9.9 232416.7 -1833.4  
 6327 9.9 232442.8 -1819.6  
 6328 7.8 232501.8 -1824.7  
 6329 9.5 232502.9 -1836.1  
 6330 8.2 232508.8 -1836.4  
 6331 8.5 232517.0 -1851.3  
 6332 9.2 232531.9 -1842.8  
 6333 8.9 232541.4 -1825.8

6334 9.5 232606.9 -1805.5  
 6335 9.8 232613.9 -1849.4  
 6336 10. 232622.4 -1815.5  
 6337 8.9 232634.4 -1841.5  
 6338 9.6 232639.4 -1806.1  
 6339 8.8 232713.5 -1830.6  
 6340 9.9 232845.0 -1834.4  
 6341 9.2 232852.6 -1842.0  
 6342 8.8 232909.1 -1802.3  
 6343 9.5 232914.1 -1838.6

6344 9.5 232918.0 -1877.8  
 6345 8.3 232928.8 -1821.7  
 6346 9.4 232938.1 -1841.9  
 6347 10. 233020.4 -1847.8  
 6348 9.7 233039.7 -1848.9  
 6349 9.6 233049.0 -1831.8  
 6350 9.8 233107.3 -1809.9  
 6351 9.8 233139.2 -1801.9  
 6352 9.6 233146.6 -1839.3  
 6353 8.4 233147.1 -1835.5

6354 9.4 233203.1 -1814.9  
 6355 9.8 233227.2 -1857.5  
 6356 8.3 233332.3 -1819.8  
 6357 5.3 233403.3 -1849.5  
 6358 4.3 233413.7 -1836.9  
 6359 8.5 233414.4 -1834.8  
 6360 9.4 233417.9 -1856.0  
 6361 9.5 233435.2 -1811.3  
 6362 9.7 233516.7 -1812.0  
 6363 9.6 233650.4 -1851.4

6364 9.3 233700.3 -1825.0  
 6365 9.8 233703.4 -1843.5  
 6366 9.2 233709.6 -1841.3  
 6367 9.8 233808.4 -1832.8  
 6368 9.8 233823.0 -1846.9  
 6369 9.4 233823.9 -1835.9  
 6370 8.4 234001.1 -1844.2  
 6371 9.2 234052.8 -1841.7  
 6372 9.3 234110.3 -1852.7  
 6373 9.8 234143.9 -1823.5

6374 9.8 234213.9 -1835.3  
 6375 10. 234229.5 -1810.9  
 6376 9.8 234235.7 -1828.8  
 6377 9.9 234237.2 -1845.1  
 6378 8.6 234242.6 -1810.8  
 6379 9.3 234259.3 -1856.4  
 6380 9.2 234324.4 -1852.0  
 6381 9.0 234325.7 -1812.8  
 6382 9.9 234336.6 -1806.9  
 6383 8.9 234404.0 -1840.2

6384 9.6 234421.4 -1847.2  
 6385 10. 234427.5 -1807.7  
 6386 9.5 234433.0 -1802.3  
 6387 8.8 234443.3 -1812.4  
 6388 9.4 234448.2 -1857.2  
 6389 8.2 234450.5 -1849.6  
 6390 9.8 234458.7 -1809.0  
 6391 9.3 234514.8 -1826.0  
 6392 9.8 234607.0 -1829.3  
 6393 9.6 234730.3 -1836.2

6394 9.2 234738.0 -1825.2  
 6395 9.4 234739.4 -1847.1  
 6396 9.7 234743.5 -1847.8  
 6397 7.5 234757.1 -1838.1  
 6398 9.3 234805.9 -1842.3  
 6399 9.1 234819.9 -1835.7  
 6400 9.4 234823.2 -1824.1  
 6401 9.3 234835.9 -1823.4  
 6402 8.7 234839.7 -1848.7  
 6403 8.5 234907.6 -1804.6

6404 9.8 235054.3 -1815.9  
 6405 9.2 235059.0 -1802.4  
 6406 9.5 235126.1 -1827.2  
 6407 9.7 235217.5 -1836.0  
 6408 9.6 235227.5 -1835.9  
 6409 8.4 235238.7 -1849.2  
 6410 9.2 235249.7 -1859.0  
 6411 9.3 235326.5 -1827.3  
 6412 10. 235503.4 -1850.0  
 6413 9.3 235534.1 -1808.4

6414 9.5 235602.0 -1806.4  
 6415 9.5 235603.5 -1859.3  
 6416 8.8 235610.1 -1821.2  
 6417 4.7 235618.0 -1806.2  
 6418 9.1 235628.1 -1822.5  
 6419 8.5 235649.1 -1815.7  
 6420 9.7 235707.1 -1816.9  
 6421 8.7 235731.0 -1859.2  
 6422 9.8 235738.9 -1852.9  
 6423 9.6 235800.8 -1822.2

6424 9.1 235819.0 -1858.8  
 6425 9.1 235823.1 -1807.4  
 6426 7.5 235858.9 -1850.5  
 6427 9.0 235913.5 -1826.3  
 6428 6.5 235935.2 -1811.5  
 6429 9.4 235958.8 -1840.2  
 1 10. 00013.6 -1910.0  
 2 8. 00034.6 -1929.4  
 3 9. 00134.8 -1941.5  
 4 8.8 00155.3 -1918.2

5 9.4 00247.3 -1940.3  
 6 9.5 00253.3 -1940.3  
 7 8.0 00334.1 -1922.7  
 8 9.2 00343.1 -1919.7  
 9 9.1 00354.6 -1957.8  
 10 8.8 00405.3 -1930.7  
 11 7.3 00411.2 -1924.2  
 12 9.8 00419.5 -1936.9  
 13 9.8 00426.7 -1949.5  
 14 9.0 00502.2 -1920.3

15 9.4 00537.4 -1900.5  
 16 9.3 00604.5 -1914.9  
 17 9.0 00650.3 -1920.2  
 18 9.2 00700.1 -1916.1  
 19 9.0 00705.2 -1954.8  
 20 9.0 00705.9 -1914.3  
 21 5.0 00716.2 -1943.8  
 22 9.6 00718.8 -1915.2  
 23 9.0 00830.1 -1945.3  
 24 9.5 00848.0 -1925.2

25 8.8 00907.3 -1903.6  
 26 9.4 00924.5 -1912.6  
 27 9.7 00948.9 -1907.1  
 28 9.9 00957.4 -1906.5  
 29 9.3 01005.5 -1912.6  
 30 7.0 01011.2 -1951.1  
 31 10. 01023.7 -1945.8  
 32 9.9 01040.2 -1931.7  
 33 9.1 01042.2 -1933.5  
 34 9.5 01143.9 -1900.8

35 9.4 01156.6 -1914.8  
 36 9.6 01238.3 -1950.0  
 37 10. 01315.3 -1943.3  
 38 9.5 01316.6 -1926.3  
 39 9.9 01351.7 -1907.1  
 40 9.6 01410.0 -1941.6  
 41 9.9 01418.2 -1909.6  
 42 9.2 01427.9 -1946.7  
 43 9.4 01428.8 -1910.8  
 44 9.5 01447.1 -1916.1

45 9.5 01449.1 -1941.2  
 46 9.7 01536.1 -1917.6  
 47 10. 01552.0 -1957.4  
 48 7.5 01604.4 -1941.2  
 49 9.3 01629.8 -1906.0  
 50 9.1 01645.4 -1953.5  
 51 10. 01704.5 -1940.9  
 52 9.2 01728.6 -1949.0  
 53 7.3 01729.9 -1916.0  
 54 8.8 01737.1 -1910.6

55 8.7 01816.6 -1936.6  
 56 9.3 01817.8 -1940.4  
 57 9.4 01821.7 -1949.8  
 58 7.0 01902.6 -1929.6  
 59 9.1 01915.9 -1941.2  
 60 9.5 01917.7 -1954.2  
 61 9.1 01955.7 -1952.7  
 62 10. 02059.2 -1941.0  
 63 10. 02132.8 -1916.1  
 64 9.9 02208.6 -1917.1

65 8.5 02237.8 -1950.3  
 66 9.5 02252.8 -1934.4  
 67 8.2 02256.8 -1959.1  
 68 7.8 02258.8 -1925.0  
 69 9.5 02320.4 -1926.8  
 70 10. 02358.4 -1945.5  
 71 8.8 02359.1 -1957.3  
 72 10. 02428.3 -1932.3  
 73 9.1 02429.9 -1923.8  
 74 7.0 02447.0 -1901.0

75 10. 02500.3 -1923.0  
 76 9.0 02525.5 -1929.1  
 77 10. 02613.4 -1941.3  
 78 9.5 02632.0 -1910.1  
 79 10. 02704.5 -1934.5  
 80 8.9 02801.0 -1900.1  
 81 8.2 02801.4 -1913.3  
 82 7.8 02803.5 -1921.2  
 83 9.7 02821.2 -1952.2  
 84 9.8 02841.7 -1934.3

85 8.5 02844.4 -1933.7  
 86 9.5 02849.8 -1958.3  
 87 9.2 02924.1 -1938.8  
 88 9.6 02934.1 -1943.3  
 89 10. 03002.2 -1934.1  
 90 9.8 03050.8 -1912.5  
 91 10. 03117.4 -1945.0  
 92 8.8 03132.3 -1916.7  
 93 8.0 03135.2 -1940.0  
 94 9.5 03203.3 -1947.8

95 9.8 03209.8 -1927.4  
 96 9.1 03252.0 -1921.1  
 97 9.8 03257.2 -1956.6  
 98 9.5 03317.5 -1959.5  
 99 9.8 03330.4 -1929.2  
 100 9.8 03332.9 -1939.0  
 101 9.2 03424.4 -1936.8  
 102 9.1 03525.4 -1924.8  
 103 9.5 03527.4 -1923.0  
 104 8.5 03529.0 -1952.0



105 9.3 03547.4 -1959.1  
 106 9.2 03603.9 -1938.6  
 107 9.1 03610.7 -1903.5  
 108 9.8 03701.8 -1919.4  
 109 9.5 03714.1 -1945.8  
 110 9.5 03715.3 -1921.2  
 111 9.5 03719.6 -1944.4  
 112 9.2 03720.9 -1913.8  
 113 9.8 03750.5 -1930.5  
 114 9.4 03819.8 -1956.0

115 9.5 03909.6 -1926.0  
 116 9.0 03937.4 -1905.7  
 117 9.6 03939.0 -1918.8  
 118 8.7 03945.1 -1941.9  
 119 9.8 03946.3 -1950.4  
 120 9.8 03958.4 -1921.9  
 121 9.8 04029.1 -1913.5  
 122 9.5 04048.8 -1955.4  
 123 9.3 04057.3 -1953.0  
 124 8.9 04116.2 -1927.5

125 10. 04120.3 -1944.5  
 126 8.3 04128.1 -1919.9  
 127 9.0 04202.7 -1947.4  
 128 9.8 04204.8 -1953.5  
 129 9.2 04226.8 -1927.8  
 130 9.7 04301.2 -1957.8  
 131 9.9 04301.9 -1949.2  
 132 9.5 04311.9 -1952.4  
 133 8.6 04327.2 -1917.8  
 134 9.5 04331.9 -1953.0

135 10. 04345.8 -1924.5  
 136 9.5 04418.4 -1945.0  
 137 8.8 04419.1 -1918.0  
 138 9.8 04425.0 -1950.7  
 139 9.0 04526.0 -1947.8  
 140 8.5 04533.9 -1922.2  
 141 10. 04716.5 -1931.0  
 142 9.5 04736.1 -1928.3  
 143 8.0 04837.8 -1918.9  
 144 8.3 04842.1 -1932.7

145 9.3 04924.1 -1939.2  
 146 9.5 05014.2 -1924.4  
 147 7.2 05027.7 -1946.7  
 148 10. 05101.7 -1943.5  
 149 8.9 05140.7 -1917.8  
 150 9.2 05151.8 -1935.7  
 151 9.5 05209.5 -1914.0  
 152 10. 05312.8 -1918.0  
 153 9.9 05331.6 -1933.5  
 154 9.5 05342.9 -1944.3

155 8.0 05357.9 -1937.3  
 156 9.3 05406.6 -1959.7  
 157 10. 05434.2 -1900.1  
 158 9.2 05440.1 -1920.6  
 159 9.8 05452.2 -1953.6  
 160 9.6 05502.4 -1914.2  
 161 9.6 05511.0 -1949.4  
 162 9.7 05517.7 -1906.9  
 163 9.5 05536.2 -1916.4  
 164 9.6 05547.5 -1913.8

165 9.4 05550.5 -1951.6  
 166 9.9 05608.9 -1915.9  
 167 9.5 05632.0 -1944.0  
 168 8.5 05652.6 -1920.9  
 169 9.3 05659.5 -1930.4  
 170 9.6 05659.6 -1909.6  
 171 8.5 05734.2 -1905.8  
 172 9.4 05801.1 -1946.5  
 173 10. 05804.1 -1909.1  
 174 9.6 05818.0 -1912.0

175 9.5 05819.6 -1930.1  
 176 10. 05828.1 -1934.2  
 177 9.3 05840.1 -1922.8  
 178 8.7 05902.2 -1936.6  
 179 9.5 05948.3 -1905.3  
 180 8.9 10020.6 -1955.2  
 181 9.8 10021.3 -1952.5  
 182 9.1 10026.4 -1904.0  
 183 9.8 10054.2 -1945.2  
 184 10. 10101.8 -1915.0

185 9.0 10112.7 -1943.5  
 186 8.3 10119.0 -1956.4  
 187 9.9 10139.2 -1923.2  
 188 9.5 10206.5 -1904.8  
 189 10. 10256.9 -1951.6  
 190 9.5 10308.3 -1923.4  
 191 9.7 10317.6 -1924.0  
 192 9.5 10327.4 -1927.1  
 193 9.4 10351.0 -1909.6  
 194 10. 10354.6 -1958.0

195 7.0 10354.6 -1934.3  
 196 9.0 10429.3 -1940.8  
 197 9.2 10435.3 -1915.6  
 198 9.4 10505.6 -1934.1  
 199 9.1 10617.5 -1948.3  
 200 8.9 10622.9 -1955.9  
 201 9.7 10626.4 -1949.4  
 202 10. 10647.5 -1944.1  
 203 10. 10653.5 -1945.9  
 204 9.6 10701.4 -1920.4

205 10. 10723.6 -1934.9  
 206 9.7 10806.7 -1958.2  
 207 9.1 10831.6 -1946.4  
 208 8.2 10837.5 -1910.6  
 209 9.5 10842.6 -1940.7  
 210 9.3 10909.1 -1925.8  
 211 9.3 11008.1 -1954.6  
 212 9.0 11012.7 -1937.5  
 213 9.3 11014.8 -1950.2  
 214 9.0 11015.5 -1947.3

215 9.3 11030.7 -1927.5  
 216 9.1 11037.7 -1930.7  
 217 9.8 11119.3 -1932.2  
 218 9.1 11142.8 -1952.1  
 219 9.5 11237.4 -1914.0  
 220 9.6 11250.6 -1919.5  
 221 9.7 11320.5 -1920.9  
 222 9.3 11333.9 -1901.5  
 223 10. 11343.5 -1913.1  
 224 9.1 11353.6 -1903.9

225 9.1 11401.4 -1929.3  
 226 9.8 11428.5 -1901.2  
 227 8.8 11448.4 -1943.4  
 228 8.5 11524.0 -1933.8  
 229 6.9 11528.2 -1950.2  
 230 9.9 11544.1 -1913.3  
 231 9.8 11544.9 -1942.8  
 232 8.9 11557.3 -1940.4  
 233 9.5 11616.1 -1922.5  
 234 9.3 11618.7 -1908.4

235 8.7 11620.1 -1911.5  
 236 9.1 11628.5 -1913.9  
 237 10. 11647.2 -1949.2  
 238 9.1 11655.0 -1938.6  
 239 9.5 11720.7 -1950.5  
 240 9.4 11729.2 -1905.0  
 241 9.3 11738.9 -1930.8  
 242 8.8 11838.6 -1919.1  
 243 10. 11918.7 -1903.4  
 244 9.4 11931.8 -1905.4

245 9.7 11944.7 -1952.9  
 246 8.7 11959.8 -1905.8  
 247 9.4 12000.2 -1922.7  
 248 9.1 12016.4 -1907.6  
 249 10. 12018.2 -1945.3  
 250 9.6 12043.1 -1915.2  
 251 9.3 12102.0 -1914.5  
 252 9.5 12119.2 -1931.5  
 253 9.9 12132.1 -1956.3  
 254 9.7 12228.7 -1915.7

255 9.8 12235.5 -1920.1  
 256 9.4 12252.5 -1930.6  
 257 9.8 12312.6 -1939.8  
 258 9.2 12321.7 -1930.5  
 259 9.8 12322.1 -1913.7  
 260 9.3 12322.5 -1924.0  
 261 9.8 12322.8 -1948.0  
 262 7.0 12433.4 -1945.7  
 263 8.0 12438.9 -1946.7  
 264 9.4 12508.9 -1911.7

265 8.2 12516.0 -1918.6  
 266 7.7 12535.5 -1943.1  
 267 9.5 12545.4 -1928.0  
 268 9.2 12551.2 -1916.4  
 269 7.5 12604.3 -1954.1  
 270 8.4 12606.8 -1934.5  
 271 9.8 12657.0 -1940.8  
 272 9.9 12709.4 -1931.4  
 273 9.5 12723.7 -1956.1  
 274 8.3 12808.6 -1913.9

275 10. 12809.5 -1937.0  
 276 9.5 12920.7 -1925.4  
 277 10. 12935.8 -1926.9  
 278 9.0 13012.6 -1912.7  
 279 10. 13014.8 -1934.7  
 280 9.6 13034.0 -1950.6  
 281 9.7 13038.9 -1915.5  
 282 9.0 13146.8 -1926.0  
 283 9.9 13214.0 -1949.7  
 284 8.8 13218.3 -1932.2

285 9.3 13234.4 -1936.9  
 286 9.0 13236.7 -1909.5  
 287 9.3 13242.6 -1902.5  
 288 9.4 13244.6 -1959.1  
 289 9.6 13331.5 -1918.4  
 290 9.9 13336.9 -1941.4  
 291 9.4 13409.8 -1929.1  
 292 7.5 13504.6 -1955.4  
 293 10. 13555.6 -1925.2  
 294 9.4 13603.6 -1952.8

295 10. 13612.4 -1929.2  
 296 9.4 13616.9 -1936.7  
 297 9.6 13622.4 -1926.0  
 298 9.2 13653.6 -1918.0  
 299 9.4 13659.1 -1955.4  
 300 9.0 13719.5 -1944.1  
 301 9.1 13729.2 -1923.7  
 302 9.2 13753.4 -1907.8  
 303 9.8 13828.7 -1916.1  
 304 9.9 13831.8 -1926.8

305 9.6 13833.5 -1905.2  
 306 10. 13907.4 -1938.9  
 307 10. 13934.3 -1947.7  
 308 9.8 13936.1 -1928.5  
 309 9.9 13939.0 -1918.6  
 310 9.4 14000.3 -1909.8  
 311 10. 14021.3 -1957.4  
 312 9.8 14026.8 -1906.9  
 313 10. 14027.7 -1917.4  
 314 9.6 14056.6 -1925.4

315 10. 14111.7 -1941.2  
 316 9.0 14126.6 -1924.2  
 317 8.0 14153.6 -1906.4  
 318 7.9 14209.2 -1912.0  
 319 9.4 14233.6 -1907.3  
 320 9.0 14233.8 -1944.1  
 321 8.6 14246.8 -1939.2  
 322 9.2 14249.6 -1920.9  
 323 9.0 14256.5 -1955.7  
 324 9.7 14419.3 -1927.1

325 9.7 14420.8 -1926.2  
 326 8.7 14433.5 -1959.8  
 327 9.9 14454.4 -1932.0  
 328 9.4 14528.8 -1937.1  
 329 10. 14531.0 -1955.9  
 330 9.8 14626.3 -1929.5  
 331 9.5 14658.0 -1928.2  
 332 8.8 14659.5 -1943.0  
 333 9.1 14720.0 -1929.8  
 334 9.5 14808.3 -1950.6

335 9.4 14809.0 -1934.1  
 336 8.9 14826.4 -1959.3  
 337 9.7 14842.3 -1937.4  
 338 9.0 14842.8 -1935.5  
 339 10. 14846.4 -1955.0  
 340 10. 14912.5 -1935.4  
 341 8.3 14920.2 -1920.0  
 342 10. 14941.0 -1938.1  
 343 9.8 14949.3 -1938.5  
 344 10. 14949.5 -1925.0

345 9.5 14957.8 -1925.9  
 346 9.6 15047.7 -1914.1  
 347 9.5 15051.8 -1949.1  
 348 9.8 15104.0 -1918.4  
 349 10. 15117.8 -1910.2  
 350 10. 15121.4 -1917.6  
 351 10. 15135.2 -1948.0  
 352 9.3 15149.0 -1905.8  
 353 10. 15214.2 -1936.0  
 354 9.8 15228.0 -1905.8

355 10. 15237.9 -1955.7  
 356 9.2 15312.7 -1935.8  
 357 9.5 15316.1 -1928.8  
 358 9.6 15325.6 -1955.7  
 359 10. 15339.8 -1948.9  
 360 9.8 15350.4 -1951.6  
 361 9.4 15352.6 -1904.7  
 362 9.3 15359.2 -1907.7  
 363 9.1 15514.7 -1924.6  
 364 9.0 15525.3 -1935.6

365 9.1 15606.9 -1956.3  
 366 10. 15613.3 -1925.1  
 367 9.4 15618.4 -1933.6  
 368 9.5 15626.9 -1931.6  
 369 8.0 15644.9 -1918.9  
 370 9.1 15650.0 -1925.8  
 371 9.0 15711.4 -1937.2  
 372 9.9 15724.4 -1928.3  
 373 9.4 15729.9 -1928.3  
 374 8.9 15759.0 -1949.6

375 9.8 15800.8 -1907.4  
 376 9.7 15818.1 -1957.5  
 377 9.7 15819.9 -1932.2  
 378 9.7 15829.3 -1950.3  
 379 9.4 15855.4 -1902.3  
 380 9.5 15855.4 -1939.6  
 381 9.7 15856.7 -1905.7  
 382 9.5 15902.1 -1917.3  
 383 9.6 15908.6 -1953.3  
 384 9.3 15926.1 -1948.8

385 9.4 15954.4 -1905.8  
 386 6.3 20000.1 -1949.2  
 387 9.1 20017.8 -1941.9  
 388 10. 20035.0 -1907.5  
 389 8.7 20105.4 -1903.3  
 390 8.3 20107.8 -1936.2  
 391 10. 20127.1 -1927.5  
 392 9.1 20130.9 -1919.4  
 393 9.0 20130.9 -1909.4  
 394 10. 20138.0 -1958.1

395 9.5 20144.1 -1933.2  
 396 9.4 20156.7 -1935.2  
 397 10. 20208.9 -1905.8  
 398 9.4 20241.8 -1901.9  
 399 9.7 20337.6 -1917.1  
 400 9.8 20343.8 -1952.0  
 401 8.9 20409.5 -1913.4  
 402 7.5 20418.9 -1959.7  
 403 10. 20418.9 -1952.7  
 404 9.8 20419.0 -1933.1

405 9.2 20435.4 -1912.3  
 406 7.2 20442.7 -1939.2  
 407 9.3 20446.7 -1928.7  
 408 10. 20550.9 -1955.4  
 409 9.1 20627.0 -1919.6  
 410 9.9 20646.3 -1928.4  
 411 9.8 20650.4 -1937.2  
 412 9.7 20651.5 -1928.7  
 413 9.8 20801.7 -1901.7  
 414 10. 20821.3 -1927.9

415 9.1 20835.1 -1917.6  
 416 8.6 20906.0 -1948.7  
 417 10. 20911.7 -1954.1  
 418 9.8 20938.1 -1954.4  
 419 9.5 21017.3 -1902.3  
 420 9.2 21032.0 -1947.5  
 421 9.0 21139.6 -1955.9  
 422 9.8 21144.2 -1952.1  
 423 10. 21208.0 -1927.8  
 424 9.2 21216.5 -1932.7

425 9.2 21225.8 -1913.5  
 426 8.5 21235.5 -1914.4  
 427 7.8 21253.0 -1948.7  
 428 9.8 21253.3 -1957.8  
 429 8.9 21310.7 -1943.3  
 430 9.3 21325.2 -1911.3  
 431 9.5 21342.4 -1906.3  
 432 9.8 21401.1 -1918.2  
 433 10. 21420.2 -1944.0  
 434 9.9 21424.3 -1950.6

435 9.4 21437.5 -1957.4  
 436 9.1 21439.5 -1904.7  
 437 9.6 21444.0 -1918.3  
 438 9.5 21505.0 -1911.8  
 439 9.8 21511.4 -1959.6  
 440 10. 21520.7 -1924.2  
 441 9.5 21531.1 -1924.4  
 442 9.7 21602.6 -1958.8  
 443 9.5 21605.8 -1914.2  
 444 6.3 21607.5 -1900.6

445 10. 21658.7 -1918.6  
 446 10. 21707.8 -1931.9  
 447 9.9 21715.7 -1911.9  
 448 10. 21719.9 -1935.6  
 449 10. 21722.7 -1918.4  
 450 9.5 21735.0 -1954.5  
 451 9.7 21749.5 -1902.4  
 452 9.4 21804.2 -1921.4  
 453 9.1 21840.1 -1915.0  
 454 10. 21852.9 -1937.4

455 8.9 21943.5 -1944.6  
 456 9.9 21957.4 -1935.7  
 457 10. 22004.8 -1959.7  
 458 9.1 22023.5 -1956.1  
 459 10. 22103.6 -1945.7  
 460 9.1 22140.0 -1933.6  
 461 7.8 22205.3 -1916.0  
 462 8.6 22220.4 -1911.0  
 463 8.2 22221.9 -1955.9  
 464 10. 22247.5 -1938.5



465 10. 22259.6 -1952.3  
 466 9.5 22320.6 -1930.2  
 467 9.6 22347.7 -1943.0  
 468 10. 22359.5 -1934.7  
 469 10. 22404.1 -1923.8  
 470 9.6 22438.3 -1918.5  
 471 9.1 22514.2 -1947.4  
 472 8.8 22527.6 -1906.7  
 473 8.8 22620.9 -1900.0  
 474 9.5 22702.2 -1918.1

475 10. 22705.1 -1901.2  
 476 9.8 22722.7 -1925.7  
 477 8.8 22740.3 -1951.4  
 478 10. 22749.6 -1907.9  
 479 10. 22757.5 -1926.3  
 480 10. 22811.9 -1915.7  
 481 9.9 22844.8 -1942.1  
 482 9.4 22905.2 -1903.6  
 483 8.9 22907.4 -1946.6  
 484 10. 22909.3 -1938.4

485 10. 22928.7 -1928.1  
 486 10. 22933.5 -1957.0  
 487 9.1 22934.4 -1935.7  
 488 10. 22953.4 -1943.5  
 489 9.2 23001.5 -1955.8  
 490 10. 23003.6 -1931.5  
 491 9.4 23101.5 -1909.9  
 492 9.9 23103.7 -1914.8  
 493 9.0 23130.8 -1920.7  
 494 9.8 23138.4 -1940.2

495 10. 23140.2 -1936.9  
 496 9.5 23151.1 -1949.5  
 497 10. 23227.6 -1953.3  
 498 8.5 23257.0 -1936.9  
 499 9.5 23327.9 -1901.0  
 500 9.2 23340.7 -1950.7  
 501 8.3 23352.5 -1922.3  
 502 9.9 23410.2 -1949.7  
 503 9.6 23415.2 -1918.4  
 504 8.3 23419.5 -1913.5

505 9.2 23445.2 -1958.3  
 506 9.5 23515.5 -1902.6  
 507 9.4 23518.4 -1900.9  
 508 9.0 23529.9 -1936.6  
 509 9.0 23533.8 -1950.0  
 510 8.5 23625.3 -1958.2  
 511 9.8 23626.1 -1954.6  
 512 8.8 23626.7 -1939.7  
 513 9.2 23729.4 -1918.4  
 514 9.5 23737.7 -1934.8

515 9.5 23748.3 -1925.9  
 516 9.8 23749.9 -1926.1  
 517 9.9 23752.8 -1934.8  
 518 4.0 23820.3 -1911.1  
 519 9.9 23842.9 -1951.0  
 520 9.4 23920.8 -1929.9  
 521 8.7 23946.7 -1930.2  
 522 9.0 23950.9 -1903.6  
 523 9.3 23952.4 -1930.4  
 524 9.3 23957.3 -1920.9

525 8.9 24018.8 -1924.2  
 526 9.4 24037.3 -1926.6  
 527 9.0 24040.9 -1916.0  
 528 10. 24109.5 -1949.2  
 529 8.9 24124.2 -1958.6  
 530 8.3 24131.8 -1917.4  
 531 9.0 24144.9 -1935.9  
 532 9.7 24212.0 -1906.5  
 533 8.3 24212.4 -1937.9  
 534 9.2 24232.2 -1914.0

535 9.3 24253.5 -1956.6  
 536 9.0 24317.5 -1904.2  
 537 9.9 24324.9 -1931.7  
 538 9.9 24334.0 -1930.8  
 539 9.8 24349.6 -1906.2  
 540 10. 24418.0 -1928.5  
 541 8.8 24421.6 -1949.9  
 542 10. 24428.5 -1932.3  
 543 10. 24437.2 -1919.1  
 544 10. 24502.0 -1924.6

545 9.8 24504.4 -1921.1  
 546 9.7 24516.5 -1916.4  
 547 10. 24517.4 -1918.9  
 548 9.7 24524.1 -1912.2  
 549 9.0 24542.9 -1921.0  
 550 8.9 24602.7 -1902.4  
 551 9.9 24607.0 -1916.7  
 552 9.8 24624.3 -1928.7  
 553 8.8 24651.6 -1917.3  
 554 9.9 24658.6 -1924.2

555 9.2 24702.7 -1946.7  
 556 9.3 24713.3 -1953.5  
 557 9.2 24720.1 -1903.5  
 558 9.8 24730.2 -1904.6  
 559 10. 24732.0 -1921.3  
 560 9.7 24758.4 -1913.3  
 561 9.7 24806.2 -1913.2  
 562 10. 24824.9 -1954.0  
 563 9.8 24855.2 -1936.0  
 564 8.6 24855.7 -1928.0

565 8.5 24858.2 -1943.4  
 566 8.9 24913.4 -1921.3  
 567 9.3 24932.5 -1902.1  
 568 8.3 24943.3 -1917.5  
 569 9.1 25040.3 -1937.9  
 570 9.0 25058.0 -1953.9  
 571 9.5 25107.8 -1920.8  
 572 9.5 25110.0 -1900.8  
 573 9.0 25111.2 -1901.4  
 574 9.9 25113.3 -1923.2

575 10. 25140.9 -1935.5  
 576 9.6 25202.4 -1945.5  
 577 9.5 25216.9 -1926.1  
 578 9.5 25240.3 -1902.2  
 579 9.5 25244.1 -1915.2  
 580 9.1 25305.0 -1947.1  
 581 8.9 25326.9 -1926.9  
 582 9.5 25330.4 -1910.6  
 583 9.8 25351.0 -1945.1  
 584 10. 25352.5 -1935.5

585 9.5 25402.4 -1937.7  
 586 10. 25409.0 -1939.2  
 587 9.8 25416.9 -1931.7  
 588 9.9 25418.8 -1950.7  
 589 9.8 25502.6 -1941.9  
 590 10. 25511.5 -1925.4  
 591 8.0 25515.7 -1955.2  
 592 9.1 25528.5 -1931.5  
 593 8.8 25607.0 -1901.3  
 594 8.0 25627.0 -1904.3

595 9.6 25639.0 -1931.8  
 596 9.7 25708.0 -1919.3  
 597 9.1 25800.4 -1910.0  
 598 9.8 25821.1 -1909.2  
 599 9.3 25823.0 -1918.4  
 600 7.3 25835.2 -1938.5  
 601 9.4 25843.3 -1958.3  
 602 9.6 25911.7 -1943.3  
 603 9.0 25924.2 -1945.5  
 604 8.6 25925.3 -1951.1

605 9.1 25931.6 -1918.1  
 606 9.7 25948.9 -1912.1  
 607 10. 25952.1 -1947.1  
 608 9.8 30009.5 -1909.4  
 609 8.5 30010.3 -1919.8  
 610 9.4 30011.3 -1917.7  
 611 9.9 30040.6 -1918.7  
 612 8.9 30103.4 -1951.6  
 613 9.6 30113.6 -1915.3  
 614 9.6 30118.7 -1920.2

615 9.6 30120.8 -1930.5  
 616 7.8 30133.4 -1951.6  
 617 7.3 30217.8 -1931.3  
 618 8.5 30229.2 -1926.2  
 619 8.6 30257.9 -1935.4  
 620 8.9 30301.0 -1900.6  
 621 10. 30301.3 -1917.9  
 622 9.3 30351.9 -1946.3  
 623 9.8 30449.8 -1903.2  
 624 9.1 30501.5 -1916.7

625 9.2 30512.7 -1954.2  
 626 9.0 30512.8 -1905.7  
 627 8.7 30531.9 -1922.7  
 628 10. 30547.8 -1925.2  
 629 9.7 30620.5 -1902.7  
 630 8.7 30627.4 -1905.2  
 631 9.2 30646.9 -1909.5  
 632 10. 30658.0 -1932.9  
 633 8.2 30700.9 -1914.9  
 634 9.6 30735.7 -1916.7

635 10. 30804.1 -1918.3  
 636 9.1 30904.3 -1953.0  
 637 9.6 30906.8 -1935.0  
 638 9.4 30909.4 -1920.7  
 639 9.3 30912.7 -1953.2  
 640 9.0 30918.2 -1922.7  
 641 9.5 30918.2 -1929.0  
 642 9.4 30925.7 -1930.5  
 643 8.0 30930.0 -1952.5  
 644 9.3 31015.6 -1917.9

645 9.3 31022.7 -1940.3  
 646 10. 31034.5 -1910.0  
 647 9.2 31038.7 -1944.3  
 648 8.5 31133.7 -1935.5  
 649 9.1 31141.3 -1946.7  
 650 8.8 31145.2 -1909.0  
 651 5.9 31204.1 -1905.2  
 652 9.7 31245.0 -1953.7  
 653 9.1 31305.7 -1908.8  
 654 7.3 31311.4 -1921.6

655 10. 31317.2 -1911.3  
 656 9.2 31321.8 -1942.6  
 657 9.5 31345.7 -1901.0  
 658 9.6 31353.7 -1956.7  
 659 9.8 31412.1 -1920.9  
 660 9.4 31416.3 -1947.5  
 661 9.8 31503.3 -1941.7  
 662 9.0 31519.7 -1955.2  
 663 9.4 31523.4 -1920.6  
 664 9.5 31542.3 -1921.5

665 9.8 31553.2 -1904.7  
 666 8.5 31611.4 -1937.1  
 667 9.0 31614.9 -1950.3  
 668 9.8 31641.3 -1902.1  
 669 9.8 31711.1 -1959.4  
 670 9.9 31737.3 -1914.3  
 671 9.4 31744.9 -1947.4  
 672 9.7 31801.9 -1945.9  
 673 9.1 31825.8 -1905.0  
 674 8.3 31941.4 -1924.3

675 9.2 31951.5 -1911.3  
 676 9.5 32008.4 -1940.3  
 677 9.3 32010.9 -1908.9  
 678 9.5 32029.9 -1919.2  
 679 9.2 32030.1 -1908.4  
 680 8.5 32037.5 -1912.3  
 681 9.3 32100.4 -1930.5  
 682 9.9 32116.5 -1949.7  
 683 8.5 32205.2 -1909.3  
 684 9.9 32216.9 -1957.5

685 10. 32227.5 -1925.4  
 686 9.7 32245.7 -1919.1  
 687 9.1 32304.9 -1913.2  
 688 9.1 32314.4 -1932.2  
 689 9.5 32324.1 -1946.3  
 690 10. 32338.1 -1945.9  
 691 9.8 32342.3 -1917.8  
 692 9.2 32402.3 -1912.7  
 693 9.0 32404.8 -1934.7  
 694 7.5 32408.9 -1955.7

695 9.4 32440.2 -1910.7  
 696 10. 32457.6 -1941.0  
 697 10. 32458.6 -1923.3  
 698 8.3 32517.2 -1948.3  
 699 10. 32541.6 -1921.7  
 700 8.5 32623.8 -1945.1  
 701 9.4 32631.4 -1918.3  
 702 9.3 32654.3 -1946.7  
 703 8.5 32703.2 -1933.0  
 704 9.4 32706.7 -1933.3

705 9.1 32831.1 -1910.5  
 706 9.9 32841.7 -1917.9  
 707 8.0 32940.0 -1901.7  
 708 7.3 32954.5 -1951.1  
 709 9.1 33026.3 -1930.2  
 710 9.9 33035.9 -1943.1  
 711 10. 33053.3 -1922.5  
 712 9.1 33123.4 -1935.4  
 713 9.6 33127.1 -1947.5  
 714 8.7 33157.6 -1913.3

715 9.4 33247.4 -1956.5  
 716 7.0 33258.4 -1910.0  
 717 8.0 33259.4 -1928.2  
 718 10. 33322.1 -1949.6  
 719 10. 33323.7 -1914.1  
 720 20.0 33340.7 -1903.4  
 721 9.5 33341.4 -1925.0  
 722 9.7 33352.6 -1949.2  
 723 8.8 33402.2 -1953.4  
 724 7.0 33410.1 -1956.5

725 8.6 33443.7 -1951.9  
 726 9.1 33444.8 -1955.6  
 727 9.4 33511.6 -1910.4  
 728 8.9 33540.5 -1928.1  
 729 9.2 33604.6 -1910.1  
 730 8.7 33610.5 -1916.8  
 731 9.3 33612.0 -1907.4  
 732 7.4 33614.3 -1910.4  
 733 7.0 33722.6 -1934.5  
 734 9.8 33724.6 -1930.5

735 9.2 33811.5 -1951.4  
 736 9.8 33825.0 -1957.3  
 737 8.5 33832.1 -1935.7  
 738 9.2 33847.1 -1936.0  
 739 8.5 33917.0 -1925.5  
 740 9.8 33925.4 -1954.3  
 741 9.8 33947.6 -1950.5  
 742 9.1 33957.1 -1923.1  
 743 9.5 34015.0 -1908.9  
 744 8.7 34037.5 -1936.5

745 9.0 34040.5 -1915.7  
 746 9.1 34126.7 -1937.0  
 747 9.5 34156.6 -1929.1  
 748 9.0 34234.1 -1927.7  
 749 9.3 34318.1 -1948.2  
 750 10. 34318.1 -1939.3  
 751 6.8 34343.9 -1911.1  
 752 9.7 34405.6 -1919.8  
 753 9.3 34421.6 -1910.5  
 754 9.4 34434.3 -1933.4

755 9.6 34441.1 -1916.5  
 756 8.5 34443.2 -1920.9  
 757 9.2 34445.9 -1937.9  
 758 9.4 34512.1 -1902.6  
 759 9.0 34538.0 -1901.0  
 760 9.5 34540.7 -1923.9  
 761 10. 34603.3 -1911.3  
 762 10. 34615.8 -1929.0  
 763 8.8 34647.4 -1943.2  
 764 9.8 34650.3 -1927.4

765 9.6 34706.7 -1921.3  
 766 10. 34710.7 -1928.3  
 767 9.1 34716.1 -1914.1  
 768 9.3 34725.0 -1941.3  
 769 9.5 34743.4 -1930.8  
 770 9.8 34750.9 -1905.9  
 771 8.5 34805.6 -1949.0  
 772 10. 34808.6 -1913.6  
 773 9.6 34830.2 -1906.4  
 774 9.2 34839.7 -1906.5

775 9.8 34854.5 -1938.2  
 776 9.8 34905.0 -1939.5  
 777 9.0 34908.7 -1954.4  
 778 7.0 34919.6 -1951.5  
 779 9.8 34932.4 -1930.5  
 780 10. 34934.9 -1925.3  
 781 9.7 34956.4 -1954.2  
 782 9.1 35016.7 -1906.9  
 783 9.4 35036.1 -1941.1  
 784 9.3 35043.8 -1956.9

785 9.1 35050.6 -1949.8  
 786 9.5 35100.0 -1938.9  
 787 9.8 35125.5 -1935.9  
 788 10. 35131.4 -1914.5  
 789 8.9 35136.9 -1950.9  
 790 9.5 35216.6 -1957.0  
 791 9.9 35220.5 -1925.2  
 792 9.0 35239.9 -1921.6  
 793 9.5 35245.4 -1932.3  
 794 9.3 35258.1 -1938.0

795 9.7 35321.2 -1948.3  
 796 6.8 35332.6 -1939.4  
 797 9.1 35335.1 -1935.8  
 798 10. 35455.3 -1956.5  
 799 9.7 35516.0 -1955.0  
 800 7.3 35604.7 -1954.4  
 801 9.0 35614.1 -1927.1  
 802 9.5 35620.5 -1914.0  
 803 9.2 35622.6 -1928.0  
 804 9.7 35626.1 -1929.8

805 9.8 35712.3 -1945.9  
 806 7.7 35752.4 -1952.1  
 807 9.8 35757.9 -1913.0  
 808 9.5 35814.5 -1905.7  
 809 9.8 35815.4 -1955.8  
 810 10. 35825.8 -1939.5  
 811 9.4 35832.4 -1914.6  
 812 9.2 35845.8 -1954.2  
 813 9.5 35852.0 -1908.5  
 814 9.3 35903.9 -1901.9

815 9.3 35913.6 -1900.8  
 816 9.4 35930.5 -1902.4  
 817 9.4 35937.9 -1941.4  
 818 9.6 35944.2 -1909.0  
 819 9.5 35946.3 -1915.4  
 820 7.3 35951.1 -1954.4  
 821 9.0 40008.2 -1924.7  
 822 10. 40012.8 -1939.0  
 823 10. 40014.6 -1941.1  
 824 9.8 40017.0 -1901.3



825 8.9 40027.4 -1941.3  
 826 9.1 40056.4 -1948.1  
 827 9.8 40127.2 -1931.0  
 828 9.5 40152.1 -1900.8  
 829 9.0 40155.4 -1947.9  
 830 9.4 40213.0 -1952.8  
 831 8.4 40229.3 -1931.4  
 832 8.9 40231.4 -1940.5  
 833 9.7 40310.6 -1915.5  
 834 9.0 40312.1 -1926.6  
 835 6.5 40527.4 -1940.1  
 836 7.0 40532.7 -1923.1  
 837 9.5 40533.3 -1914.2  
 838 8.0 40534.4 -1905.6  
 839 8.5 40540.8 -1929.2  
 840 9.2 40551.0 -1959.1  
 841 8.4 40420.9 -1928.5  
 842 9.3 40425.5 -1948.4  
 843 9.4 40507.1 -1900.2  
 844 9.3 40508.6 -1904.8  
 845 8.5 40543.0 -1948.7  
 846 9.2 40546.5 -1942.6  
 847 9.5 40601.7 -1958.9  
 848 9.2 40604.8 -1924.6  
 849 10.0 40611.5 -1937.5  
 850 8.5 40618.6 -1901.5  
 851 10.0 40634.9 -1929.2  
 852 9.0 40706.1 -1942.6  
 853 9.8 40711.5 -1905.5  
 854 10.0 40737.8 -1915.8  
 855 9.9 40756.3 -1913.8  
 856 9.8 40800.1 -1949.6  
 857 8.8 40817.7 -1914.3  
 858 9.2 40821.5 -1929.6  
 859 9.9 40838.2 -1926.1  
 860 9.2 40853.2 -1931.4  
 861 10.0 40902.4 -1911.3  
 862 9.2 40908.1 -1940.4  
 863 7.0 40920.2 -1900.3  
 864 8.9 41011.2 -1958.4  
 865 9.8 41020.1 -1933.4  
 866 10.0 41030.5 -1931.0  
 867 8.7 41050.7 -1949.3  
 868 9.6 41055.3 -1956.2  
 869 9.0 41055.8 -1928.9  
 870 7.8 41057.7 -1953.1  
 871 9.2 41125.2 -1951.7  
 872 9.5 41111.1 -1915.4  
 873 9.8 41111.6 -1958.8  
 874 9.7 41142.5 -1958.0  
 875 8.3 41155.6 -1935.6  
 876 10.0 41219.1 -1955.9  
 877 9.2 41220.4 -1945.2  
 878 10.0 41220.8 -1948.8  
 879 9.8 41317.7 -1933.3  
 880 9.8 41318.3 -1923.9  
 881 9.5 41319.1 -1953.2  
 882 9.5 41327.5 -1913.6  
 883 9.3 41340.2 -1954.1  
 884 9.8 41409.8 -1943.1  
 885 7.3 41426.1 -1941.0  
 886 8.5 41433.6 -1959.1  
 887 8.4 41435.7 -1935.7  
 888 8.8 41456.9 -1953.5  
 889 9.8 41502.0 -1921.2  
 890 9.6 41504.9 -1921.1  
 891 9.3 41512.6 -1966.2  
 892 10.0 41517.3 -1900.8  
 893 8.8 41531.4 -1909.6  
 894 10.0 41534.2 -1909.7  
 895 10.0 41538.7 -1931.9  
 896 9.5 41543.7 -1932.1  
 897 7.7 41545.2 -1958.0  
 898 8.2 41550.9 -1946.2  
 899 9.4 41559.2 -1929.0  
 900 8.9 41605.1 -1912.5  
 901 10.0 41605.8 -1938.5  
 902 9.5 41611.4 -1947.5  
 903 9.2 41612.0 -1926.3  
 904 9.0 41643.3 -1915.8  
 905 9.4 41709.7 -1954.5  
 906 10.0 41709.4 -1943.5  
 907 8.0 41716.9 -1948.8  
 908 9.0 41717.4 -1922.9  
 909 10.0 41751.2 -1925.5  
 910 9.3 41754.3 -1939.2  
 911 9.8 41818.0 -1955.9  
 912 10.0 41843.1 -1911.3  
 913 9.4 41845.3 -1925.0  
 914 9.8 41855.2 -1927.4

915 10.0 41922.0 -1901.7  
 916 9.3 41940.3 -1950.8  
 917 8.9 41951.8 -1959.5  
 918 9.2 41958.5 -1942.7  
 919 10.0 42016.9 -1934.6  
 920 9.7 42025.5 -1902.1  
 921 9.7 42031.5 -1905.8  
 922 9.0 42038.4 -1954.1  
 923 9.1 42045.8 -1935.3  
 924 9.4 42101.2 -1926.2  
 925 9.2 42102.9 -1913.8  
 926 9.8 42106.8 -1933.3  
 927 10.0 42107.5 -1949.7  
 928 9.8 42112.4 -1940.9  
 929 8.0 42118.5 -1940.9  
 930 9.5 42215.0 -1937.9  
 931 6.0 42216.0 -1946.4  
 932 9.6 42225.1 -1904.2  
 933 9.1 42228.0 -1948.8  
 934 10.0 42244.2 -1918.6  
 935 9.5 42306.1 -1903.6  
 936 10.0 42315.0 -1940.4  
 937 9.0 42317.0 -1903.2  
 938 9.2 42321.9 -1922.5  
 939 9.6 42332.2 -1916.7  
 940 9.3 42333.5 -1934.8  
 941 9.8 42351.6 -1958.7  
 942 9.5 42414.4 -1959.8  
 943 9.8 42420.8 -1910.1  
 944 9.6 42423.7 -1906.9  
 945 9.8 42441.4 -1946.7  
 946 8.5 42450.6 -1947.5  
 947 9.6 42455.1 -1901.1  
 948 9.0 42533.8 -1910.8  
 949 8.8 42537.3 -1957.7  
 950 9.0 42553.5 -1903.9  
 951 10.0 42623.8 -1912.2  
 952 8.6 42631.6 -1954.9  
 953 9.4 42636.9 -1922.5  
 954 7.9 42645.6 -1940.1  
 955 9.8 42706.4 -1917.8  
 956 8.5 42732.0 -1928.7  
 957 10.0 42750.2 -1946.8  
 958 10.0 42802.2 -1942.5  
 959 9.0 42824.5 -1930.7  
 960 9.6 42827.5 -1924.0  
 961 9.5 42834.3 -1948.0  
 962 9.7 42849.1 -1954.8  
 963 9.4 42919.4 -1942.5  
 964 9.0 42921.1 -1931.3  
 965 8.5 42939.9 -1901.6  
 966 10.0 42952.1 -1933.6  
 967 9.4 42957.1 -1934.7  
 968 9.6 42959.4 -1920.5  
 969 9.4 43009.2 -1936.0  
 970 9.5 43017.6 -1927.0  
 971 9.7 43025.4 -1957.0  
 972 9.7 43023.7 -1935.4  
 973 10.0 43026.6 -1937.5  
 974 9.4 43028.3 -1913.7  
 975 9.3 43104.1 -1923.1  
 976 9.8 43152.0 -1918.3  
 977 9.7 43204.4 -1935.4  
 978 8.7 43205.3 -1908.0  
 979 7.2 43208.5 -1955.6  
 980 9.1 43230.4 -1917.0  
 981 8.7 43231.5 -1910.8  
 982 9.1 43235.2 -1954.9  
 983 10.0 43235.5 -1948.5  
 984 9.3 43243.0 -1916.4  
 985 8.5 43258.1 -1926.0  
 986 9.8 43329.4 -1948.3  
 987 9.5 43343.7 -1945.5  
 988 4.5 43406.2 -1957.3  
 989 9.6 43407.0 -1933.0  
 990 9.6 43423.7 -1900.4  
 991 9.9 43430.7 -1927.3  
 992 9.5 43452.6 -1958.3  
 993 10.0 43453.1 -1921.1  
 994 9.8 43456.7 -1900.2  
 995 8.8 43501.3 -1943.8  
 996 9.5 43544.9 -1903.4  
 997 9.8 43558.4 -1954.2  
 998 9.5 43614.0 -1906.7  
 999 9.3 43741.7 -1947.4  
 1000 9.1 43755.5 -1942.7  
 1001 8.9 43757.1 -1905.4  
 1002 9.3 43800.6 -1945.0  
 1003 9.0 43802.5 -1905.3  
 1004 8.7 43809.6 -1910.9

1005 9.3 43816.4 -1937.6  
 1006 9.3 43843.6 -1957.6  
 1007 9.8 43909.7 -1937.7  
 1008 9.8 43910.7 -1905.9  
 1009 9.4 43910.8 -1941.3  
 1010 9.5 43949.8 -1924.8  
 1011 9.5 44024.4 -1918.7  
 1012 9.3 44118.0 -1931.9  
 1013 9.5 44129.1 -1906.5  
 1014 8.0 44159.0 -1959.3  
 1015 9.4 44211.2 -1916.3  
 1016 9.3 44220.9 -1927.5  
 1017 9.8 44246.9 -1933.0  
 1018 9.5 44247.4 -1907.3  
 1019 9.3 44259.6 -1953.7  
 1020 9.1 44352.9 -1908.9  
 1021 9.8 44405.6 -1913.2  
 1022 8.6 44409.2 -1918.8  
 1023 7.3 44421.8 -1909.3  
 1024 9.3 44438.3 -1958.8  
 1025 9.8 44501.5 -1903.7  
 1026 9.8 44516.3 -1909.5  
 1027 9.5 44516.9 -1928.6  
 1028 9.3 44527.6 -1936.0  
 1029 9.9 44528.1 -1905.9  
 1030 9.4 44529.4 -1952.4  
 1031 10.0 44534.5 -1920.0  
 1032 10.0 44541.0 -1947.9  
 1033 10.0 44549.0 -1921.5  
 1034 9.0 44549.0 -1938.6  
 1035 9.1 44549.6 -1941.2  
 1036 9.6 44555.3 -1926.9  
 1037 9.3 44604.2 -1925.9  
 1038 9.8 44633.0 -1930.6  
 1039 9.1 44637.5 -1904.3  
 1040 9.5 44642.2 -1943.7  
 1041 9.6 44644.3 -1952.0  
 1042 9.3 44654.4 -1920.6  
 1043 10.0 44737.5 -1903.9  
 1044 9.3 44821.0 -1929.7  
 1045 9.5 44827.8 -1947.8  
 1046 10.0 44858.0 -1930.7  
 1047 9.6 44903.7 -1953.3  
 1048 9.9 44913.4 -1959.4  
 1049 9.0 44916.3 -1959.2  
 1050 9.5 44924.6 -1931.4  
 1051 9.5 45009.2 -1951.5  
 1052 9.3 45010.7 -1944.4  
 1053 9.0 45024.2 -1926.7  
 1054 9.4 45105.4 -1953.9  
 1055 9.3 45105.8 -1919.8  
 1056 9.4 45132.3 -1903.7  
 1057 9.8 45150.8 -1929.1  
 1058 9.8 45156.2 -1941.0  
 1059 9.0 45228.1 -1904.3  
 1060 9.3 45242.6 -1912.0  
 1061 9.3 45245.1 -1946.0  
 1062 9.4 45311.4 -1930.6  
 1063 9.5 45314.4 -1955.6  
 1064 9.0 45320.3 -1914.2  
 1065 9.6 45324.3 -1933.9  
 1066 9.0 45333.2 -1902.6  
 1067 9.2 45338.1 -1904.7  
 1068 9.5 45345.0 -1924.8  
 1069 9.7 45352.5 -1905.4  
 1070 9.2 45353.0 -1920.5  
 1071 9.8 45358.2 -1905.6  
 1072 8.2 45401.1 -1951.4  
 1073 9.0 45409.9 -1911.4  
 1074 9.7 45429.4 -1917.8  
 1075 9.0 45453.4 -1917.8  
 1076 9.3 45527.5 -1951.9  
 1077 7.5 45534.9 -1952.8  
 1078 9.8 45539.0 -1956.3  
 1079 10.0 45603.7 -1934.0  
 1080 9.8 45611.2 -1918.7  
 1081 9.8 45623.1 -1901.0  
 1082 9.1 45645.5 -1926.9  
 1083 9.7 45647.0 -1941.0  
 1084 9.0 45651.5 -1919.9  
 1085 8.4 45703.2 -1942.6  
 1086 9.0 45708.5 -1924.9  
 1087 9.7 45733.3 -1959.1  
 1088 10.0 45737.7 -1911.9  
 1089 9.5 45752.5 -1927.5  
 1090 9.0 45808.2 -1904.9  
 1091 8.9 45810.4 -1949.8  
 1092 9.7 45827.8 -1915.6  
 1093 9.4 45916.2 -1904.4  
 1094 9.4 45933.7 -1957.4

1095 9.7 45934.4 -1912.9  
 1096 10.0 50001.0 -1911.0  
 1097 9.7 50010.4 -1915.0  
 1098 9.1 50029.3 -1900.3  
 1099 9.3 50029.9 -1957.9  
 1100 9.8 50036.3 -1905.9  
 1101 9.9 50041.3 -1901.1  
 1102 7.0 50051.2 -1935.7  
 1103 8.5 50116.5 -1913.3  
 1104 9.8 50213.4 -1959.0  
 1105 9.7 50214.2 -1949.3  
 1106 9.3 50214.9 -1905.8  
 1107 9.8 50238.0 -1945.9  
 1108 9.5 50249.9 -1955.3  
 1109 9.1 50310.2 -1936.3  
 1110 9.5 50312.7 -1932.1  
 1111 9.6 50320.2 -1918.5  
 1112 9.9 50322.3 -1904.9  
 1113 10.0 50329.9 -1941.5  
 1114 9.3 50357.8 -1914.5  
 1115 8.5 50447.5 -1920.8  
 1116 9.0 50522.4 -1911.0  
 1117 9.0 50532.1 -1912.1  
 1118 9.6 50547.6 -1943.9  
 1119 9.1 50614.8 -1910.4  
 1120 8.9 50618.0 -1932.9  
 1121 9.5 50625.1 -1940.4  
 1122 9.5 50657.0 -1909.8  
 1123 9.5 50711.8 -1947.1  
 1124 9.2 50722.9 -1943.0  
 1125 9.4 50727.4 -1948.4  
 1126 9.3 50748.3 -1900.7  
 1127 9.2 50822.0 -1945.6  
 1128 9.5 50844.5 -1919.3  
 1129 7.8 50904.6 -1913.7  
 1130 9.5 50945.2 -1925.8  
 1131 9.9 50957.9 -1908.5  
 1132 10.0 51031.0 -1946.8  
 1133 9.4 51040.3 -1931.4  
 1134 9.6 51049.2 -1958.4  
 1135 8.3 51122.9 -1937.6  
 1136 9.2 51126.5 -1900.8  
 1137 9.4 51148.6 -1944.4  
 1138 9.8 51155.5 -1905.9  
 1139 9.2 51156.8 -1914.4  
 1140 9.6 51228.4 -1913.9  
 1141 9.2 51356.5 -1904.7  
 1142 9.0 51401.4 -1940.2  
 1143 9.4 51404.9 -1957.7  
 1144 9.0 51411.3 -1933.5  
 1145 9.4 51423.8 -1932.2  
 1146 10.0 51435.9 -1925.9  
 1147 8.0 51438.5 -1950.3  
 1148 9.5 51440.6 -1907.5  
 1149 9.1 51455.5 -1937.3  
 1150 10.0 51456.4 -1950.6  
 1151 9.4 51557.2 -1911.9  
 1152 9.5 51558.3 -1944.3  
 1153 9.5 51607.4 -1932.7  
 1154 9.8 51617.5 -1947.9  
 1155 9.3 51619.7 -1934.8  
 1156 8.8 51620.3 -1959.4  
 1157 9.5 51628.0 -1911.6  
 1158 9.7 51643.2 -1959.8  
 1159 9.5 51651.4 -1944.5  
 1160 9.4 51740.2 -1954.8  
 1161 9.1 51742.0 -1926.4  
 1162 9.9 51753.9 -1935.6  
 1163 9.3 51801.0 -1926.0  
 1164 8.9 51812.6 -1921.2  
 1165 10.0 51820.3 -1912.5  
 1166 7.5 51841.3 -1930.1  
 1167 9.3 51855.3 -1955.4  
 1168 9.4 51856.3 -1928.2  
 1169 9.1 51900.2 -1911.6  
 1170 8.9 51905.3 -1925.0  
 1171 9.8 51926.5 -1919.3  
 1172 8.5 51941.4 -1948.1  
 1173 6.0 51942.7 -1949.1  
 1174 9.7 51954.9 -1947.1  
 1175 9.2 51956.2 -1959.8  
 1176 8.8 51958.5 -1938.3  
 1177 9.7 52001.6 -1919.2  
 1178 9.5 52010.0 -1950.0  
 1179 9.4 52024.4 -1931.7  
 1180 9.6 52033.9 -1910.8  
 1181 9.0 52046.7 -1909.3  
 1182 8.1 52053.0 -1913.8  
 1183 10.0 52057.0 -1908.0  
 1184 9.5 52126.7 -1957.2



-19 1185 5h22m

1185 9.0 52201.6 -1938.6  
1186 9.8 52202.5 -1946.4  
1187 9.8 52218.6 -1900.5  
1188 9.5 52233.2 -1905.1  
1189 9.2 52236.1 -1940.5  
1190 8.2 52243.8 -1915.8  
1191 9.5 52325.6 -1940.7  
1192 10. 52347.7 -1947.2  
1193 10. 52354.4 -1912.8  
1194 9.2 52400.3 -1923.7

1195 9.5 52407.4 -1914.9  
1196 9.2 52415.8 -1947.2  
1197 9.8 52419.7 -1948.1  
1198 8.8 52428.0 -1932.0  
1199 9.0 52512.3 -1924.2  
1200 9.3 52532.1 -1904.1  
1201 9.3 52545.4 -1914.0  
1202 9.5 52602.6 -1939.5  
1203 8.4 52616.3 -1912.9  
1204 9.6 52623.1 -1940.9

1205 9.3 52633.3 -1952.7  
1206 8.8 52643.1 -1911.2  
1207 9.5 52646.7 -1944.7  
1208 9.2 52656.4 -1927.2  
1209 8.5 52706.3 -1923.9  
1210 8.7 52730.0 -1932.4  
1211 9.1 52734.9 -1931.5  
1212 9.7 52809.3 -1959.9  
1213 9.1 52817.2 -1941.5  
1214 9.8 52818.2 -1912.9

1215 9.5 52825.3 -1949.1  
1216 8.8 52846.6 -1917.5  
1217 9.5 52847.7 -1927.7  
1218 9.2 52929.5 -1920.8  
1219 9.5 52955.0 -1959.3  
1220 9.1 53001.7 -1929.4  
1221 9.4 53010.0 -1958.9  
1222 9.0 53022.2 -1932.5  
1223 8.3 53033.0 -1944.3  
1224 8.5 53044.1 -1956.7

1225 8.0 53046.9 -1900.2  
1226 10. 53107.6 -1958.9  
1227 9.9 53129.7 -1941.4  
1228 9.8 53235.4 -1953.7  
1229 9.5 53246.6 -1934.9  
1230 9.5 53308.0 -1909.8  
1231 8.2 53308.4 -1952.4  
1232 9.3 53323.3 -1938.2  
1233 9.1 53342.0 -1911.8  
1234 8.0 53400.3 -1918.2

1235 9.0 53404.2 -1945.0  
1236 10. 53417.2 -1930.4  
1237 9.4 53418.1 -1921.8  
1238 9.0 53438.2 -1909.3  
1239 9.5 53458.3 -1942.0  
1240 10. 53500.1 -1932.1  
1241 9.5 53505.9 -1900.2  
1242 9.5 53534.2 -1932.2  
1243 9.4 53539.7 -1954.7  
1244 9.0 53540.5 -1903.0

1245 9.6 53603.9 -1918.5  
1246 10. 53613.2 -1918.8  
1247 9.2 53715.8 -1914.0  
1248 7.5 53730.9 -1943.0  
1249 9.5 53740.7 -1933.6  
1250 8.0 53748.5 -1937.9  
1251 9.0 53813.1 -1934.7  
1252 9.2 53814.4 -1932.7  
1253 9.5 53829.0 -1953.2  
1254 9.5 53832.5 -1910.7

1255 8.9 53835.5 -1904.1  
1256 9.8 53840.3 -1939.8  
1257 9.2 53902.4 -1922.8  
1258 9.5 53910.1 -1907.6  
1259 9.8 53922.9 -1922.2  
1260 9.8 53927.0 -1924.1  
1261 9.2 53927.9 -1920.4  
1262 9.7 53951.1 -1913.0  
1263 9.1 53944.0 -1928.3  
1264 9.5 53955.7 -1942.5

1265 9.6 54004.1 -1927.7  
1266 9.0 54020.5 -1901.9  
1267 10. 54035.4 -1918.7  
1268 10. 54042.3 -1940.7  
1269 10. 54043.9 -1944.5  
1270 9.3 54101.0 -1955.0  
1271 8.8 54110.5 -1903.0  
1272 10. 54116.2 -1936.0  
1273 9.2 54126.9 -1918.4  
1274 9.8 54127.4 -1926.5

1275 9.5 54148.4 -1955.7  
1276 8.9 54205.1 -1904.5  
1277 9.4 54206.6 -1939.9  
1278 7.1 54255.1 -1927.2  
1279 9.4 54318.2 -1932.3  
1280 9.2 54319.7 -1900.1  
1281 9.3 54344.8 -1949.2  
1282 9.5 54433.0 -1936.3  
1283 9.5 54433.6 -1940.3  
1284 9.3 54508.0 -1918.4

1285 9.0 54511.1 -1949.5  
1286 9.0 54511.7 -1907.1  
1287 7.7 54530.6 -1925.6  
1288 9.5 54550.9 -1941.4  
1289 7.2 54553.7 -1905.4  
1290 10. 54634.7 -1927.7  
1291 9.0 54654.4 -1955.1  
1292 9.7 54726.8 -1920.4  
1293 6.3 54740.3 -1940.2  
1294 9.6 54753.6 -1922.8

1295 9.5 54759.7 -1925.7  
1296 9.6 54813.1 -1955.5  
1297 7.5 54813.2 -1944.1  
1298 9.4 54816.0 -1914.9  
1299 10. 54840.6 -1939.8  
1300 9.7 54923.7 -1919.1  
1301 9.0 54934.8 -1911.2  
1302 9.5 54936.1 -1948.9  
1303 9.3 54939.3 -1911.0  
1304 9.4 54942.4 -1929.2

1305 9.7 54951.9 -1939.9  
1306 9.5 54958.3 -1921.5  
1307 9.5 55000.0 -1941.7  
1308 9.5 55039.9 -1951.0  
1309 8.8 55046.4 -1914.1  
1310 9.7 55052.4 -1901.0  
1311 9.8 55055.3 -1953.7  
1312 10. 55118.0 -1946.7  
1313 9.8 55125.8 -1949.8  
1314 7.8 55127.1 -1924.2

1315 9.3 55134.9 -1937.3  
1316 9.4 55148.0 -1958.5  
1317 9.4 55158.2 -1944.6  
1318 8.7 55232.6 -1905.1  
1319 9.1 55232.8 -1938.7  
1320 9.2 55256.8 -1949.9  
1321 9.2 55203.2 -1910.1  
1322 9.5 55324.1 -1940.1  
1323 8.5 55344.9 -1951.6  
1324 9.1 55409.1 -1925.3

1325 9.4 55410.2 -1909.2  
1326 9.3 55433.2 -1914.7  
1327 9.8 55503.7 -1902.2  
1328 9.6 55506.6 -1915.0  
1329 7.7 55555.2 -1941.5  
1330 9.1 55607.1 -1936.7  
1331 9.2 55624.8 -1934.0  
1332 8.5 55633.0 -1943.5  
1333 9.3 55650.7 -1933.4  
1334 9.5 55700.8 -1955.4

1335 9.5 55702.7 -1900.1  
1336 9.3 55708.1 -1930.2  
1337 9.5 55721.5 -1902.7  
1338 9.6 55751.5 -1907.4  
1339 10. 55756.7 -1925.7  
1340 9.5 55809.3 -1941.3  
1341 8.8 55812.3 -1916.7  
1342 9.4 55813.4 -1938.1  
1343 8.7 55814.0 -1943.5  
1344 9.1 55829.6 -1915.4

1345 8.3 55831.1 -1929.1  
1346 9.7 55832.0 -1932.3  
1347 9.5 55834.1 -1907.4  
1348 9.5 55903.7 -1902.1  
1349 9.3 55944.9 -1955.9  
1350 9.5 55944.9 -1914.0  
1351 9.8 60017.5 -1909.0  
1352 10. 60023.1 -1931.9  
1353 9.8 60027.9 -1948.0  
1354 9.8 60035.2 -1936.1

1355 8.2 60037.3 -1955.8  
1356 8.5 60043.5 -1904.4  
1357 9.5 60053.3 -1943.4  
1358 9.6 60056.5 -1918.5  
1359 9.5 60117.7 -1934.5  
1360 9.5 60123.3 -1925.4  
1361 5.8 60123.6 -1908.6  
1362 9.5 60126.1 -1946.8  
1363 9.5 60145.6 -1909.5  
1364 8.3 60150.3 -1945.7

1365 8.3 60152.0 -1924.6  
1366 9.1 60213.0 -1904.8  
1367 9.7 60223.3 -1945.2  
1368 9.5 60246.1 -1956.9  
1369 9.4 60251.3 -1955.7  
1370 9.1 60313.0 -1934.4  
1371 9.6 60356.2 -1935.0  
1372 9.9 60406.6 -1951.8  
1373 9.8 60419.9 -1943.7  
1374 9.4 60423.3 -1907.4

1375 9.4 60426.2 -1922.7  
1376 9.5 60428.1 -1955.0  
1377 9.3 60512.8 -1944.8  
1378 9.5 60534.0 -1913.6  
1379 9.4 60544.0 -1906.8  
1380 9.4 60607.3 -1945.9  
1381 9.7 60618.9 -1914.0  
1382 9.7 60619.5 -1908.2  
1383 9.6 60620.7 -1918.5  
1384 9.5 60623.3 -1941.9

1385 9.2 60638.1 -1933.4  
1386 9.4 60655.0 -1918.1  
1387 9.2 60659.3 -1914.3  
1388 9.5 60725.1 -1924.4  
1389 9.8 60730.2 -1942.3  
1390 8.7 60746.2 -1934.3  
1391 8.0 60802.1 -1929.4  
1392 9.2 60822.0 -1906.6  
1393 9.4 60822.9 -1912.0  
1394 8.7 60832.7 -1941.0

1395 9.5 60837.9 -1953.5  
1396 9.1 60852.5 -1900.6  
1397 9.5 60859.8 -1938.0  
1398 7.8 60917.3 -1926.8  
1399 8.2 60920.8 -1945.3  
1400 8.3 61004.5 -1918.4  
1401 9.8 61023.6 -1903.8  
1402 9.3 61037.3 -1958.3  
1403 9.5 61047.9 -1952.1  
1404 8.8 61116.6 -1928.6

1405 7.0 61125.1 -1908.3  
1406 9.4 61156.6 -1910.9  
1407 5.5 61158.3 -1954.8  
1408 9.5 61207.1 -1929.3  
1409 9.8 61235.9 -1951.8  
1410 9.5 61253.0 -1944.0  
1411 9.4 61255.2 -1934.7  
1412 9.5 61307.9 -1932.9  
1413 9.0 61309.1 -1926.0  
1414 9.1 61324.0 -1902.8

1415 9.2 61328.2 -1940.7  
1416 9.0 61328.4 -1913.4  
1417 9.5 61331.4 -1906.2  
1418 9.4 61352.6 -1926.1  
1419 8.6 61436.0 -1919.3  
1420 9.5 61442.5 -1918.0  
1421 9.7 61451.6 -1943.2  
1422 9.3 61452.3 -1911.8  
1423 9.1 61517.7 -1958.7  
1424 9.5 61520.0 -1923.0

1425 8.2 61521.9 -1946.3  
1426 9.8 61559.8 -1946.3  
1427 8.7 61601.4 -1902.0  
1428 9.5 61608.0 -1956.6  
1429 9.3 61625.6 -1926.0  
1430 9.1 61637.3 -1945.6  
1431 9.4 61646.9 -1916.3  
1432 9.5 61649.9 -1950.5  
1433 9.5 61705.5 -1922.8  
1434 9.4 61719.9 -1904.5

1435 7.0 61731.1 -1942.9  
1436 9.2 61736.6 -1904.3  
1437 8.7 61753.6 -1956.2  
1438 9.8 61815.4 -1946.0  
1439 8.5 61835.7 -1938.6  
1440 9.5 61854.6 -1902.1  
1441 9.8 61900.8 -1946.5  
1442 9.3 61905.9 -1950.3  
1443 8.3 61917.3 -1954.8  
1444 8.3 61937.4 -1947.0

1445 9.8 61952.2 -1909.7  
1446 9.5 62006.1 -1950.2  
1447 7.3 62009.6 -1914.4  
1448 9.8 62023.8 -1938.7  
1449 9.5 62028.3 -1959.0  
1450 9.5 62039.3 -1959.9  
1451 9.4 62046.6 -1912.8  
1452 7.8 62118.1 -1922.0  
1453 9.5 62129.5 -1908.2  
1454 8.5 62140.0 -1901.1

1455 9.4 62157.5 -1920.9  
1456 7.8 62159.0 -1942.5  
1457 9.8 62221.4 -1956.9  
1458 8.8 62223.7 -1936.2  
1459 8.8 62235.8 -1957.2  
1460 9.1 62251.8 -1942.7  
1461 9.5 62250.6 -1922.1  
1462 9.5 62347.5 -1900.0  
1463 9.5 62353.0 -1943.8  
1464 6.0 62353.5 -1937.0

1465 9.3 62401.8 -1908.3  
1466 9.4 62418.5 -1918.9  
1467 9.5 62425.2 -1950.5  
1468 9.1 62435.6 -1955.9  
1469 9.5 62439.1 -1922.4  
1470 9.5 62444.0 -1924.1  
1471 8.8 62517.1 -1908.0  
1472 9.5 62523.0 -1923.6  
1473 9.5 62539.7 -1936.4  
1474 9.3 62559.9 -1911.8

1475 9.5 62605.3 -1941.8  
1476 8.5 62607.3 -1957.0  
1477 9.2 62613.0 -1920.2  
1478 9.0 62615.0 -1939.2  
1479 9.8 62622.7 -1940.5  
1480 8.5 62629.8 -1955.1  
1481 9.5 62640.7 -1936.0  
1482 9.4 62716.6 -1919.8  
1483 9.2 62722.9 -1916.8  
1484 9.8 62745.7 -1931.6

1485 9.5 62747.1 -1950.4  
1486 9.5 62750.2 -1910.6  
1487 9.5 62807.5 -1908.8  
1488 9.0 62824.6 -1906.6  
1489 9.1 62829.9 -1950.3  
1490 9.8 62833.3 -1952.0  
1491 7.8 62834.5 -1932.1  
1492 9.5 62845.9 -1948.4  
1493 9.5 62853.5 -1946.9  
1494 9.8 62859.6 -1944.3

1495 9.2 62904.9 -1916.1  
1496 9.4 62910.6 -1916.1  
1497 5.4 62920.2 -1936.0  
1498 9.4 62925.6 -1926.0  
1499 9.0 62937.6 -1926.4  
1500 10. 62957.4 -1916.6  
1501 7.3 63002.3 -1922.2  
1502 4.2 63021.1 -1907.6  
1503 9.6 63031.0 -1923.5  
1504 9.3 63050.5 -1903.4

1505 9.0 63101.9 -1915.0  
1506 7.5 63110.0 -1940.2  
1507 9.0 63123.6 -1911.1  
1508 10. 63134.4 -1914.8  
1509 9.5 63139.0 -1925.0  
1510 9.5 63152.4 -1946.5  
1511 9.3 63154.8 -1920.3  
1512 9.1 63208.4 -1953.7  
1513 9.5 63230.8 -1956.6  
1514 9.5 63248.3 -1923.2

1515 9.7 63253.2 -1900.4  
1516 9.4 63264.1 -1950.1  
1517 9.8 63337.7 -1910.4  
1518 8.5 63359.7 -1902.1  
1519 9.5 63402.4 -1946.9  
1520 9.4 63412.4 -1951.5  
1521 8.9 63413.5 -1956.3  
1522 9.1 63446.6 -1910.0  
1523 9.2 63458.4 -1934.7  
1524 9.3 63511.1 -1932.5

1525 9.4 63520.7 -1906.7  
1526 9.5 63528.1 -1932.5  
1527 9.4 63542.4 -1906.7  
1528 9.3 63553.9 -1938.0  
1529 9.5 63554.3 -1956.1  
1530 9.0 63600.7 -1938.5  
1531 9.0 63603.3 -1956.8  
1532 9.0 63622.1 -1929.7  
1533 8.7 63629.0 -1912.8  
1534 9.4 63632.1 -1952.5

1535 8.7 63648.4 -1919.7  
1536 8.5 63654.6 -1900.6  
1537 9.2 63700.2 -1941.5  
1538 10. 63708.6 -1904.6  
1539 9.4 63752.4 -1919.0  
1540 9.4 63800.1 -1933.9  
1541 9.8 63811.0 -1929.4  
1542 7.7 63812.6 -1931.0  
1543 9.3 63830.1 -1943.2  
1544 9.4 63832.6 -1916.5

-19 1544 6h38m



-19 1545 6h38m

1545 9.4 63845.7 -1937.5  
1546 9.3 63901.2 -1915.4  
1547 9.2 63901.6 -1903.4  
1548 9.3 63931.0 -1922.5  
1549 8.5 63950.3 -1914.9  
1550 9.0 63953.7 -1938.7  
1551 6.5 64008.5 -1943.0  
1552 9.2 64009.9 -1902.5  
1553 9.3 64014.4 -1940.4  
1554 9.2 64017.8 -1957.5  
  
1555 8.9 64029.4 -1913.4  
1556 9.4 64039.3 -1959.5  
1557 8.8 64047.1 -1929.1  
1558 9.9 64100.6 -1943.0  
1559 9.4 64100.8 -1908.9  
1560 8.9 64110.1 -1900.8  
1561 9.3 64116.0 -1921.3  
1562 9.1 64120.0 -1923.5  
1563 9.7 64138.5 -1944.8  
1564 9.2 64144.0 -1945.5  
  
1565 9.4 64201.7 -1932.6  
1566 8.6 64201.9 -1951.4  
1567 9.3 64202.7 -1947.7  
1568 9.5 64203.2 -1945.9  
1569 9.2 64207.0 -1956.6  
1570 9.1 64218.0 -1924.0  
1571 9.1 64219.3 -1955.9  
1572 9.5 64231.0 -1959.8  
1573 9.8 64244.4 -1931.8  
1574 9.4 64319.6 -1959.7  
  
1575 7.8 64323.1 -1913.3  
1576 9.1 64330.1 -1905.9  
1577 8.8 64333.0 -1959.7  
1578 9.5 64352.3 -1909.9  
1579 9.0 64355.0 -1924.8  
1580 9.1 64355.1 -1951.1  
1581 9.3 64355.1 -1910.2  
1582 9.5 64417.0 -1927.3  
1583 9.5 64432.4 -1908.0  
1584 9.5 64441.3 -1912.6  
  
1585 8.3 64442.6 -1925.0  
1586 9.3 64457.7 -1939.1  
1587 9.8 64458.4 -1936.2  
1588 9.0 64517.1 -1931.4  
1589 8.5 64536.6 -1905.5  
1590 9.4 64553.0 -1958.6  
1591 9.5 64633.5 -1927.5  
1592 8.7 64637.3 -1957.2  
1593 8.3 64647.9 -1909.3  
1594 8.3 64657.5 -1924.9  
  
1595 9.5 64703.6 -1920.8  
1596 8.2 64704.3 -1912.5  
1597 9.0 64715.6 -1934.5  
1598 9.2 64725.8 -1944.8  
1599 9.8 64736.0 -1904.0  
1600 9.1 64754.8 -1910.9  
1601 9.0 64803.4 -1917.2  
1602 9.6 64814.2 -1923.2  
1603 9.3 64817.6 -1929.8  
1604 9.2 64819.7 -1937.8  
  
1605 9.0 64821.9 -1905.3  
1606 9.4 64834.7 -1926.2  
1607 9.2 64840.0 -1922.7  
1608 9.4 64912.1 -1935.9  
1609 10.1 64914.8 -1903.8  
1610 5.1 64919.9 -1957.2  
1611 8.0 64933.6 -1934.7  
1612 9.4 64949.8 -1911.0  
1613 9.5 64954.0 -1914.6  
1614 9.1 64955.6 -1951.9  
  
1615 9.5 64959.1 -1908.1  
1616 9.5 64959.2 -1925.8  
1617 9.4 65016.0 -1956.0  
1618 9.2 65027.7 -1947.4  
1619 9.5 65030.1 -1934.6  
1620 9.1 65035.4 -1957.0  
1621 8.5 65038.6 -1931.6  
1622 7.0 65041.6 -1915.1  
1623 9.3 65048.1 -1913.4  
1624 9.4 65114.2 -1911.3  
  
1625 8.9 65123.1 -1909.2  
1626 9.5 65135.0 -1920.1  
1627 9.3 65146.5 -1911.4  
1628 9.6 65151.6 -1953.8  
1629 9.5 65154.3 -1915.7  
1630 9.5 65159.8 -1940.6  
1631 9.7 65206.2 -1959.6  
1632 9.2 65206.6 -1954.5  
1633 9.2 65210.9 -1953.9  
1634 9.2 65215.6 -1931.5

1635 8.8 65224.5 -1908.4  
1636 9.5 65227.6 -1953.8  
1637 9.1 65230.6 -1913.5  
1638 9.2 65235.1 -1955.0  
1639 9.5 65237.9 -1913.2  
1640 9.5 65257.8 -1932.1  
1641 9.5 65258.0 -1952.4  
1642 8.9 65315.0 -1921.1  
1643 9.4 65320.4 -1951.1  
1644 6.7 65350.5 -1957.7  
  
1645 7.2 65356.6 -1936.3  
1646 8.8 65401.8 -1949.9  
1647 9.4 65410.0 -1902.2  
1648 9.0 65417.9 -1943.1  
1649 7.2 65431.6 -1914.6  
1650 9.4 65458.7 -1920.1  
1651 8.6 65508.5 -1900.0  
1652 8.7 65516.9 -1924.0  
1653 9.5 65517.7 -1909.2  
1654 9.5 65532.5 -1927.1  
  
1655 9.5 65604.9 -1915.2  
1656 8.0 65615.6 -1934.0  
1657 9.1 65624.5 -1930.2  
1658 9.1 65626.9 -1956.0  
1659 9.4 65630.0 -1920.1  
1660 9.5 65641.4 -1944.9  
1661 9.6 65645.9 -1955.7  
1662 9.2 65647.3 -1906.0  
1663 9.5 65647.3 -1902.0  
1664 9.0 65706.2 -1900.5  
  
1665 9.4 65706.6 -1952.8  
1666 9.6 65706.6 -1927.1  
1667 9.3 65708.3 -1908.7  
1668 9.7 65709.0 -1913.7  
1669 9.8 65715.7 -1926.8  
1670 8.8 65752.0 -1920.3  
1671 9.1 65755.5 -1931.0  
1672 8.5 65756.8 -1902.4  
1673 9.8 65810.1 -1959.3  
1674 9.8 65810.5 -1901.0  
  
1675 8.5 65838.6 -1925.8  
1676 9.0 65840.2 -1945.1  
1677 7.5 65847.3 -1959.5  
1678 9.4 65847.8 -1907.2  
1679 9.7 65849.9 -1925.6  
1680 10.1 65851.0 -1908.9  
1681 9.0 65856.0 -1938.4  
1682 9.0 65916.4 -1911.7  
1683 8.6 65921.8 -1926.2  
1684 9.3 65934.8 -1956.2  
  
1685 9.5 65955.2 -1917.8  
1686 9.5 65959.1 -1937.8  
1687 9.5 70012.8 -1949.8  
1688 9.1 70013.4 -1926.6  
1689 9.3 70013.5 -1945.3  
1690 9.5 70018.1 -1905.6  
1691 9.7 70024.4 -1905.7  
1692 8.9 70024.8 -1926.1  
1693 9.6 70026.7 -1929.3  
1694 9.4 70036.3 -1908.7  
  
1695 9.3 70039.3 -1919.4  
1696 9.0 70041.6 -1931.2  
1697 9.7 70043.1 -1947.3  
1698 9.4 70053.6 -1957.0  
1699 9.4 70113.2 -1914.5  
1700 9.5 70120.8 -1926.2  
1701 9.2 70149.2 -1924.1  
1702 9.6 70204.1 -1955.5  
1703 9.2 70207.0 -1924.4  
1704 9.5 70208.9 -1914.4  
  
1705 8.8 70216.9 -1906.1  
1706 9.5 70217.8 -1956.5  
1707 9.2 70226.0 -1918.7  
1708 8.2 70229.7 -1941.7  
1709 9.0 70237.6 -1917.2  
1710 9.7 70237.8 -1945.8  
1711 8.9 70240.7 -1958.2  
1712 9.8 70259.6 -1935.1  
1713 9.4 70259.7 -1920.5  
1714 9.1 70313.2 -1958.2  
  
1715 9.8 70320.8 -1955.9  
1716 9.8 70323.7 -1927.6  
1717 9.3 70328.0 -1952.0  
1718 9.3 70331.7 -1954.6  
1719 9.7 70333.4 -1900.2  
1720 7.7 70339.6 -1921.2  
1721 8.7 70349.5 -1931.5  
1722 9.0 70350.3 -1922.2  
1723 9.8 70354.9 -1932.7  
1724 9.8 70357.0 -1931.0

1725 9.9 70401.3 -1915.9  
1726 9.9 70406.5 -1935.8  
1727 9.5 70409.9 -1941.0  
1728 9.4 70414.0 -1936.0  
1729 9.0 70425.3 -1949.9  
1730 9.5 70425.8 -1902.5  
1731 9.5 70426.8 -1901.8  
1732 8.7 70441.0 -1951.8  
1733 8.3 70442.9 -1933.9  
1734 10.1 70458.9 -1902.2  
  
1735 9.7 70501.0 -1938.4  
1736 9.1 70506.7 -1956.7  
1737 9.2 70508.5 -1941.3  
1738 9.1 70516.5 -1958.7  
1739 9.2 70518.3 -1911.1  
1740 9.7 70529.6 -1942.4  
1741 9.6 70532.0 -1926.1  
1742 8.2 70534.2 -1939.5  
1743 9.3 70537.8 -1958.4  
1744 8.7 70539.2 -1956.4  
  
1745 8.0 70550.5 -1923.0  
1746 8.7 70550.9 -1902.1  
1747 9.7 70555.0 -1932.5  
1748 9.6 70609.0 -1933.2  
1749 9.9 70609.3 -1943.2  
1750 9.9 70611.2 -1944.4  
1751 9.4 70618.6 -1955.3  
1752 9.5 70629.1 -1943.2  
1753 9.8 70632.6 -1939.2  
1754 9.9 70639.7 -1931.7  
  
1755 9.5 70645.5 -1923.8  
1756 9.7 70650.5 -1940.6  
1757 9.6 70656.3 -1947.2  
1758 9.3 70659.8 -1959.7  
1759 9.4 70701.4 -1933.2  
1760 10.1 70709.8 -1934.9  
1761 9.7 70715.1 -1934.9  
1762 10.1 70719.0 -1950.9  
1763 9.2 70729.4 -1946.5  
1764 9.3 70740.9 -1947.4  
  
1765 9.9 70801.3 -1957.1  
1766 9.5 70810.0 -1904.2  
1767 7.0 70812.3 -1944.5  
1768 9.4 70812.5 -1922.0  
1769 9.6 70817.8 -1909.3  
1770 9.5 70822.4 -1919.2  
1771 9.4 70825.4 -1941.3  
1772 9.1 70827.1 -1943.7  
1773 9.8 70828.2 -1956.6  
1774 9.8 70834.2 -1942.9  
  
1775 9.8 70841.0 -1920.0  
1776 8.6 70841.3 -1944.2  
1777 9.3 70902.5 -1936.2  
1778 9.5 70910.4 -1900.7  
1779 9.8 70913.4 -1927.4  
1780 8.0 70916.0 -1952.2  
1781 9.6 70919.0 -1906.6  
1782 9.8 70923.5 -1907.1  
1783 9.1 70943.4 -1914.4  
1784 9.4 70957.6 -1958.2  
  
1785 9.5 70957.8 -1929.5  
1786 9.3 71003.3 -1913.4  
1787 9.5 71014.9 -1950.4  
1788 9.0 71016.7 -1926.9  
1789 9.7 71017.9 -1958.9  
1790 9.3 71028.0 -1907.0  
1791 9.2 71029.6 -1935.0  
1792 10.1 71035.2 -1916.5  
1793 8.8 71040.7 -1937.7  
1794 9.8 71048.8 -1948.1  
  
1795 9.5 71053.5 -1922.6  
1796 10.1 71054.0 -1958.2  
1797 9.8 71115.1 -1958.9  
1798 9.8 71122.7 -1903.8  
1799 9.4 71127.7 -1920.5  
1800 9.6 71130.9 -1907.3  
1801 9.6 71137.5 -1928.8  
1802 10.1 71140.6 -1945.1  
1803 9.0 71151.9 -1934.6  
1804 9.6 71159.7 -1957.0  
  
1805 10.1 71205.6 -1930.6  
1806 8.8 71218.4 -1909.9  
1807 8.5 71222.5 -1952.2  
1808 9.8 71223.5 -1942.0  
1809 8.6 71225.5 -1951.0  
1810 9.2 71229.1 -1947.6  
1811 9.3 71235.5 -1901.3  
1812 8.9 71236.3 -1912.3  
1813 6.5 71239.9 -1900.6  
1814 9.6 71245.4 -1948.5

1815 9.5 71246.5 -1907.9  
1816 9.8 71313.4 -1932.0  
1817 10.1 71323.6 -1934.9  
1818 8.5 71327.0 -1942.6  
1819 9.1 71331.4 -1943.4  
1820 9.7 71332.5 -1927.8  
1821 9.6 71342.8 -1915.0  
1822 9.9 71343.1 -1956.9  
1823 9.7 71346.2 -1911.0  
1824 9.7 71348.7 -1916.5  
  
1825 9.8 71349.0 -1958.0  
1826 9.3 71350.8 -1951.1  
1827 9.3 71351.6 -1932.8  
1828 10.1 71352.4 -1907.3  
1829 9.5 71352.8 -1952.1  
1830 10.1 71406.8 -1953.4  
1831 9.7 71412.8 -1951.0  
1832 9.7 71422.0 -1951.1  
1833 9.1 71428.2 -1940.2  
1834 9.2 71430.0 -1912.9  
  
1835 9.5 71430.7 -1921.4  
1836 9.7 71445.2 -1937.1  
1837 9.0 71452.4 -1957.3  
1838 9.1 71456.8 -1903.1  
1839 9.4 71459.2 -1900.5  
1840 9.0 71504.5 -1927.9  
1841 9.1 71527.7 -1955.7  
1842 9.4 71527.9 -1920.3  
1843 9.9 71531.8 -1959.3  
1844 10.1 71540.8 -1900.1  
  
1845 8.8 71547.4 -1948.2  
1846 9.0 71602.1 -1942.3  
1847 9.5 71602.5 -1951.9  
1848 10.1 71623.7 -1942.9  
1849 9.4 71623.8 -1947.9  
1850 9.3 71624.4 -1930.7  
1851 9.5 71642.6 -1922.9  
1852 9.7 71645.2 -1932.7  
1853 9.7 71646.5 -1942.5  
1854 7.5 71705.4 -1957.4  
  
1855 9.5 71707.8 -1944.5  
1856 9.8 71716.9 -1956.8  
1857 8.8 71718.7 -1916.7  
1858 9.8 71725.0 -1902.0  
1859 9.4 71730.2 -1943.9  
1860 8.1 71732.9 -1954.9  
1861 9.4 71748.9 -1941.0  
1862 9.8 71752.7 -1906.3  
1863 10.1 71800.1 -1937.5  
1864 9.2 71807.9 -1911.4  
  
1865 9.6 71814.2 -1916.7  
1866 9.7 71815.5 -1921.2  
1867 9.4 71820.3 -1941.6  
1868 9.3 71826.3 -1950.5  
1869 9.5 71828.7 -1947.2  
1870 10.1 71836.9 -1902.3  
1871 9.5 71838.5 -1950.0  
1872 9.1 71841.5 -1911.6  
1873 9.0 71846.5 -1939.1  
1874 9.5 71851.4 -1930.8  
  
1875 9.5 71854.9 -1930.6  
1876 9.5 71855.0 -1932.8  
1877 9.8 71909.4 -1954.4  
1878 7.3 71911.5 -1908.9  
1879 9.5 71920.9 -1915.9  
1880 9.5 71929.6 -1946.7  
1881 9.6 71937.9 -1958.3  
1882 10.1 71938.3 -1924.2  
1883 9.3 71950.0 -1952.6  
1884 9.8 71958.5 -1913.2  
  
1885 8.7 72010.7 -1943.0  
1886 9.8 72017.5 -1920.1  
1887 10.1 72019.7 -1916.8  
1888 9.5 72031.4 -1919.9  
1889 9.4 72036.3 -1930.4  
1890 9.2 72043.8 -1938.9  
1891 9.3 72053.2 -1921.9  
1892 8.2 72054.8 -1942.5  
1893 9.2 72056.5 -1912.6  
1894 9.7 72103.1 -1959.5  
  
1895 9.2 72105.7 -1951.0  
1896 9.2 72115.3 -1910.2  
1897 8.6 72120.8 -1951.4  
1898 8.9 72129.7 -1955.1  
1899 8.8 72131.6 -1953.6  
1900 9.3 72132.5 -1922.7  
1901 9.8 72138.3 -1935.3  
1902 9.5 72138.8 -1916.5  
1903 9.4 72158.4 -1948.8  
1904 9.5 72159.9 -1916.7

-19 1904 7h21m



|          |         |         |          |         |         |          |         |         |          |         |         |
|----------|---------|---------|----------|---------|---------|----------|---------|---------|----------|---------|---------|
| 1905 10. | 72213.3 | -1920.5 | 1995 9.1 | 73301.7 | -1925.7 | 2085 6.9 | 74323.3 | -1950.0 | 2175 8.0 | 75254.6 | -1904.3 |
| 1906 10. | 72218.3 | -1953.1 | 1996 10. | 73316.0 | -1927.0 | 2086 9.5 | 74329.9 | -1934.0 | 2176 8.8 | 75312.1 | -1921.7 |
| 1907 9.4 | 72222.3 | -1929.4 | 1997 9.0 | 73324.6 | -1955.2 | 2087 9.6 | 74331.0 | -1945.5 | 2177 9.4 | 75313.7 | -1924.8 |
| 1908 8.6 | 72237.6 | -1951.8 | 1998 10. | 73330.7 | -1924.8 | 2088 9.1 | 74335.0 | -1919.1 | 2178 9.1 | 75317.5 | -1932.0 |
| 1909 9.0 | 72238.4 | -1932.4 | 1999 9.1 | 73331.2 | -1919.6 | 2089 6.4 | 74340.9 | -1909.8 | 2179 9.2 | 75318.7 | -1952.0 |
| 1910 9.5 | 72250.7 | -1916.6 | 2000 9.7 | 73334.5 | -1916.3 | 2090 9.5 | 74343.2 | -1904.8 | 2180 9.6 | 75319.3 | -1954.1 |
| 1911 9.8 | 72259.8 | -1950.7 | 2001 9.2 | 73343.4 | -1922.3 | 2091 9.1 | 74346.8 | -1923.1 | 2181 9.8 | 75323.7 | -1907.1 |
| 1912 8.8 | 72305.1 | -1904.0 | 2002 9.6 | 73344.2 | -1928.3 | 2092 9.0 | 74352.9 | -1912.4 | 2182 9.5 | 75327.4 | -1948.0 |
| 1913 9.5 | 72312.1 | -1939.1 | 2003 6.4 | 73350.4 | -1920.2 | 2093 9.5 | 74419.0 | -1941.5 | 2183 9.3 | 75336.4 | -1919.1 |
| 1914 9.8 | 72312.7 | -1903.2 | 2004 9.8 | 73351.9 | -1935.8 | 2094 9.7 | 74428.3 | -1920.0 | 2184 9.5 | 75346.9 | -1940.4 |
| 1915 8.4 | 72315.7 | -1913.5 | 2005 9.2 | 73402.0 | -1947.8 | 2095 8.8 | 74430.3 | -1916.3 | 2185 9.0 | 75349.3 | -1920.6 |
| 1916 9.5 | 72325.4 | -1941.9 | 2006 9.5 | 73419.7 | -1932.3 | 2096 9.0 | 74438.2 | -1905.0 | 2186 8.6 | 75400.7 | -1940.5 |
| 1917 10. | 72326.9 | -1959.3 | 2007 9.6 | 73437.3 | -1954.5 | 2097 9.5 | 74448.1 | -1952.4 | 2187 9.8 | 75402.8 | -1948.3 |
| 1918 9.6 | 72328.0 | -1951.7 | 2008 9.5 | 73444.8 | -1916.8 | 2098 9.3 | 74452.8 | -1936.0 | 2188 9.5 | 75405.8 | -1917.9 |
| 1919 7.0 | 72339.3 | -1913.5 | 2009 9.3 | 73445.9 | -1911.0 | 2099 10. | 74510.8 | -1956.5 | 2189 9.1 | 75408.7 | -1940.5 |
| 1920 9.8 | 72408.4 | -1920.3 | 2010 8.6 | 73456.2 | -1959.7 | 2100 9.5 | 74513.0 | -1946.1 | 2190 9.3 | 75415.3 | -1912.3 |
| 1921 10. | 72420.5 | -1959.8 | 2011 9.5 | 73511.6 | -1957.6 | 2101 9.2 | 74514.6 | -1917.0 | 2191 8.8 | 75423.4 | -1949.0 |
| 1922 9.5 | 72432.4 | -1921.8 | 2012 9.4 | 73534.7 | -1930.5 | 2102 9.8 | 74516.4 | -1914.9 | 2192 8.5 | 75427.6 | -1905.2 |
| 1923 9.1 | 72442.8 | -1950.1 | 2013 9.2 | 73542.4 | -1952.7 | 2103 9.5 | 74520.5 | -1945.1 | 2193 9.2 | 75431.3 | -1956.9 |
| 1924 9.8 | 72447.6 | -1954.6 | 2014 9.8 | 73543.0 | -1951.9 | 2104 9.7 | 74548.2 | -1912.9 | 2194 10. | 75432.5 | -1953.5 |
| 1925 5.5 | 72448.7 | -1937.1 | 2015 9.5 | 73544.3 | -1947.5 | 2105 9.5 | 74556.6 | -1941.7 | 2195 9.4 | 75434.3 | -1937.6 |
| 1926 5.4 | 72451.1 | -1914.4 | 2016 9.2 | 73550.9 | -1920.0 | 2106 8.0 | 74615.1 | -1925.2 | 2196 9.5 | 75449.5 | -1910.6 |
| 1927 9.8 | 72459.6 | -1923.1 | 2017 9.4 | 73551.8 | -1921.3 | 2107 9.1 | 74616.4 | -1941.8 | 2197 10. | 75455.7 | -1941.4 |
| 1928 9.6 | 72500.6 | -1904.8 | 2018 8.7 | 73605.4 | -1904.8 | 2108 8.3 | 74616.9 | -1916.8 | 2198 10. | 75459.6 | -1946.3 |
| 1929 7.6 | 72507.9 | -1912.4 | 2019 9.6 | 73611.7 | -1919.5 | 2109 9.8 | 74631.2 | -1956.0 | 2199 9.8 | 75514.7 | -1939.0 |
| 1930 9.8 | 72511.1 | -1959.9 | 2020 9.7 | 73613.6 | -1919.8 | 2110 9.5 | 74637.3 | -1907.0 | 2200 9.1 | 75536.3 | -1915.5 |
| 1931 9.8 | 72517.3 | -1957.5 | 2021 5.5 | 73616.3 | -1916.9 | 2111 9.3 | 74638.3 | -1902.9 | 2201 9.2 | 75539.9 | -1900.0 |
| 1932 9.7 | 72529.5 | -1921.5 | 2022 9.6 | 73623.6 | -1954.5 | 2112 9.8 | 74640.6 | -1905.6 | 2202 9.4 | 75540.9 | -1919.5 |
| 1933 9.9 | 72531.0 | -1940.3 | 2023 9.9 | 73636.5 | -1909.3 | 2113 9.2 | 74642.1 | -1915.9 | 2203 9.2 | 75542.8 | -1949.3 |
| 1934 9.0 | 72534.7 | -1911.9 | 2024 9.8 | 73639.7 | -1952.2 | 2114 9.4 | 74644.6 | -1912.5 | 2204 9.1 | 75543.0 | -1904.0 |
| 1935 9.3 | 72547.6 | -1954.7 | 2025 10. | 73640.8 | -1954.4 | 2115 9.4 | 74645.0 | -1930.0 | 2205 7.9 | 75605.1 | -1955.0 |
| 1936 9.4 | 72618.8 | -1943.4 | 2026 9.5 | 73645.9 | -1904.5 | 2116 9.0 | 74648.9 | -1942.0 | 2206 9.5 | 75607.7 | -1943.7 |
| 1937 9.8 | 72623.6 | -1915.0 | 2027 9.7 | 73651.6 | -1914.5 | 2117 9.4 | 74650.2 | -1911.3 | 2207 9.5 | 75610.2 | -1918.9 |
| 1938 9.1 | 72630.3 | -1914.5 | 2028 9.6 | 73700.5 | -1926.8 | 2118 9.5 | 74657.2 | -1912.4 | 2208 10. | 75636.0 | -1902.1 |
| 1939 9.5 | 72633.4 | -1941.1 | 2029 9.5 | 73711.8 | -1951.9 | 2119 9.1 | 74658.4 | -1900.9 | 2209 9.3 | 75643.9 | -1948.1 |
| 1940 9.5 | 72635.5 | -1947.4 | 2030 10. | 73714.4 | -1957.1 | 2120 9.5 | 74659.3 | -1910.8 | 2210 9.8 | 75649.5 | -1925.3 |
| 1941 9.1 | 72645.0 | -1909.4 | 2031 9.1 | 73718.7 | -1934.6 | 2121 9.5 | 74705.9 | -1958.4 | 2211 9.8 | 75650.8 | -1932.6 |
| 1942 9.8 | 72654.2 | -1949.3 | 2032 9.5 | 73720.7 | -1912.5 | 2122 9.5 | 74707.0 | -1923.6 | 2212 9.8 | 75700.7 | -1925.3 |
| 1943 9.3 | 72655.2 | -1910.6 | 2033 9.3 | 73732.9 | -1956.2 | 2123 8.7 | 74715.2 | -1909.1 | 2213 9.7 | 75701.1 | -1931.8 |
| 1944 6.2 | 72656.0 | -1906.3 | 2034 9.1 | 73734.5 | -1913.0 | 2124 9.1 | 74720.8 | -1936.8 | 2214 9.1 | 75705.3 | -1946.4 |
| 1945 9.4 | 72700.6 | -1957.3 | 2035 9.5 | 73739.4 | -1949.0 | 2125 9.6 | 74722.1 | -1955.1 | 2215 9.4 | 75708.8 | -1957.6 |
| 1946 9.8 | 72707.7 | -1933.2 | 2036 9.1 | 73752.1 | -1930.6 | 2126 9.4 | 74739.8 | -1913.5 | 2216 10. | 75709.5 | -1953.7 |
| 1947 9.4 | 72716.5 | -1950.0 | 2037 9.4 | 73754.6 | -1957.5 | 2127 8.7 | 74749.6 | -1918.6 | 2217 10. | 75715.6 | -1921.0 |
| 1948 9.7 | 72732.8 | -1930.7 | 2038 9.4 | 73814.6 | -1958.6 | 2128 10. | 74751.9 | -1957.4 | 2218 9.6 | 75716.7 | -1957.6 |
| 1949 9.5 | 72749.3 | -1959.7 | 2039 9.6 | 73818.9 | -1920.7 | 2129 9.8 | 74754.7 | -1944.1 | 2219 9.4 | 75726.2 | -1921.1 |
| 1950 7.3 | 72752.4 | -1949.2 | 2040 9.4 | 73820.2 | -1921.6 | 2130 9.7 | 74755.4 | -1958.1 | 2220 10. | 75729.8 | -1930.6 |
| 1951 9.4 | 72816.6 | -1921.0 | 2041 9.8 | 73832.8 | -1907.2 | 2131 9.9 | 74758.7 | -1957.3 | 2221 9.4 | 75731.0 | -1955.3 |
| 1952 9.8 | 72828.1 | -1920.2 | 2042 9.0 | 73837.4 | -1920.2 | 2132 9.4 | 74759.6 | -1902.9 | 2222 9.2 | 75736.5 | -1917.4 |
| 1953 9.5 | 72836.4 | -1957.0 | 2043 9.5 | 73839.5 | -1939.4 | 2133 9.2 | 74802.1 | -1946.1 | 2223 9.8 | 75738.4 | -1901.2 |
| 1954 8.7 | 72838.1 | -1921.3 | 2044 10. | 73849.8 | -1908.8 | 2134 9.8 | 74803.0 | -1939.8 | 2224 8.6 | 75801.2 | -1922.0 |
| 1955 9.8 | 72843.9 | -1954.5 | 2045 9.7 | 73900.9 | -1916.8 | 2135 9.8 | 74820.5 | -1914.7 | 2225 8.9 | 75806.1 | -1959.0 |
| 1956 9.0 | 72846.2 | -1924.8 | 2046 9.5 | 73903.4 | -1925.5 | 2136 9.4 | 74836.2 | -1910.0 | 2226 8.9 | 75810.2 | -1922.0 |
| 1957 10. | 72901.7 | -1928.6 | 2047 9.0 | 73920.5 | -1958.1 | 2137 9.5 | 74846.5 | -1924.1 | 2227 9.6 | 75811.6 | -1910.1 |
| 1958 9.2 | 72902.3 | -1930.4 | 2048 9.1 | 73936.3 | -1905.1 | 2138 9.4 | 74915.0 | -1948.0 | 2228 6.4 | 75815.0 | -1919.3 |
| 1959 9.0 | 72926.7 | -1927.8 | 2049 9.5 | 73941.9 | -1922.5 | 2139 9.2 | 74917.2 | -1933.8 | 2229 9.8 | 75817.7 | -1958.7 |
| 1960 9.0 | 72928.0 | -1904.2 | 2050 9.5 | 73953.4 | -1906.4 | 2140 9.4 | 74921.3 | -1947.0 | 2230 9.0 | 75828.6 | -1940.3 |
| 1961 8.9 | 72945.3 | -1957.7 | 2051 9.5 | 74007.3 | -1941.9 | 2141 9.1 | 74921.8 | -1949.9 | 2231 9.4 | 75829.8 | -1957.3 |
| 1962 9.5 | 72946.0 | -1912.2 | 2052 9.4 | 74009.2 | -1938.3 | 2142 10. | 74931.7 | -1916.8 | 2232 9.7 | 75842.3 | -1912.0 |
| 1963 9.3 | 72948.9 | -1916.4 | 2053 9.3 | 74014.5 | -1912.6 | 2143 9.8 | 74940.9 | -1949.4 | 2233 10. | 75844.9 | -1920.5 |
| 1964 8.7 | 73004.0 | -1932.3 | 2054 9.8 | 74029.7 | -1959.8 | 2144 9.8 | 74941.2 | -1929.5 | 2234 10. | 75846.8 | -1915.4 |
| 1965 9.3 | 73005.6 | -1954.2 | 2055 9.1 | 74032.8 | -1940.6 | 2145 9.8 | 74945.0 | -1925.6 | 2235 9.5 | 75848.1 | -1919.3 |
| 1966 9.4 | 73009.2 | -1952.0 | 2056 9.5 | 74032.9 | -1920.3 | 2146 9.5 | 74946.1 | -1941.4 | 2236 9.7 | 75906.4 | -1931.8 |
| 1967 5.8 | 73019.1 | -1922.6 | 2057 9.3 | 74039.3 | -1949.4 | 2147 9.7 | 74955.3 | -1934.3 | 2237 9.5 | 75920.9 | -1900.8 |
| 1968 9.5 | 73028.7 | -1930.9 | 2058 10. | 74047.9 | -1907.7 | 2148 9.1 | 74958.8 | -1954.5 | 2238 9.3 | 75922.5 | -1901.6 |
| 1969 9.8 | 73034.6 | -1934.7 | 2059 10. | 74050.9 | -1907.0 | 2149 9.5 | 75025.0 | -1958.0 | 2239 9.4 | 75925.6 | -1948.0 |
| 1970 9.7 | 73034.9 | -1928.2 | 2060 9.5 | 74053.1 | -1931.2 | 2150 9.7 | 75025.5 | -1958.0 | 2240 7.5 | 75932.9 | -1928.7 |
| 1971 9.3 | 73037.1 | -1946.5 | 2061 9.2 | 74053.8 | -1902.7 | 2151 9.5 | 75031.9 | -1946.0 | 2241 9.4 | 75935.1 | -1939.7 |
| 1972 9.6 | 73037.2 | -1935.4 | 2062 7.6 | 74056.0 | -1934.7 | 2152 9.3 | 75045.4 | -1945.0 | 2242 9.3 | 75951.9 | -1910.7 |
| 1973 9.8 | 73039.1 | -1914.8 | 2063 9.4 | 74101.1 | -1901.3 | 2153 8.8 | 75056.0 | -1926.1 | 2243 8.0 | 80001.3 | -1925.0 |
| 1974 8.9 | 73045.4 | -1940.3 | 2064 10. | 74113.3 | -1908.3 | 2154 9.2 | 75057.7 | -1908.2 | 2244 9.3 | 80004.5 | -1915.5 |
| 1975 8.3 | 73052.6 | -1958.6 | 2065 9.2 | 74114.6 | -1911.4 | 2155 9.8 | 75106.4 | -1908.1 | 2245 8.2 | 80005.9 | -1955.1 |
| 1976 9.3 | 73056.0 | -1903.1 | 2066 8.2 | 74123.7 | -1937.7 | 2156 9.8 | 75107.6 | -1932.9 | 2246 9.0 | 80008.6 | -1941.8 |
| 1977 9.5 | 73101.2 | -1928.8 | 2067 6.7 | 74124.9 | -1912.4 | 2157 9.0 | 75113.5 | -1955.5 | 2247 9.5 | 80014.4 | -1923.2 |
| 1978 9.8 | 73132.3 | -1918.3 | 2068 7.8 | 74133.8 | -1902.6 | 2158 9.4 | 75113.8 | -1939.7 | 2248 9.2 | 80022.0 | -1936.0 |
| 1979 9.8 | 73134.4 | -1901.4 | 2069 9.8 | 74136.3 | -1902.5 | 2159 10. | 75116.0 | -1936.8 | 2249 9.5 | 80026.0 | -1904.0 |
| 1980 9.5 | 73137.1 | -1927.5 | 2070 9.2 | 74137.5 | -1911.4 | 2160 9.2 | 75122.5 | -1945.2 | 2250 9.4 | 80032.4 | -1935.1 |
| 1981 9.1 | 73138.0 | -1915.7 | 2071 9.5 | 74141.0 | -1957.6 | 2161 9.8 | 75146.9 | -1920.9 | 2251 9.6 | 80043.1 | -1956.6 |
| 1982 9.8 | 73140.0 | -1920.7 | 2072 9.5 | 74153.2 | -1918.8 | 2162 8.8 | 75148.0 | -1917.4 | 2252 9.5 | 80045.8 | -1938.5 |
| 1983 9.2 | 73143.5 | -1901.5 | 2073 9.3 | 74157.1 | -1934.2 | 2163 8.8 | 75148.6 | -1931.9 | 2253 9.3 | 80057.7 | -1947.9 |
| 1984 10. | 73148.8 | -1950.8 | 2074 9.6 | 74157.2 | -1909.8 | 2164 8.5 | 75153.7 | -1907.3 | 2254 9.1 | 80113.7 | -1949.2 |
| 1985 9.5 | 73156.8 | -1942.3 | 2075 9.4 | 74202.3 | -1927.5 | 2165 9.4 | 75157.4 | -1947.8 | 2255 9.8 | 80116.5 | -1906.0 |
| 1986 9.5 | 73156.8 | -1928.5 | 2076 8.7 | 74204.0 | -1953.4 | 2166 9.1 | 75159.8 | -1957.8 | 2256 9.3 | 80126.4 | -1907.4 |
| 1987 9.8 | 73213.3 | -1923.1 | 2077 9.5 | 74208.3 | -1906.8 |          |         |         |          |         |         |



-19 2265 8h02m

2265 9.2 80254.5 -1912.7  
2266 9.4 80257.4 -1938.5  
2267 10. 80309.8 -1929.4  
2268 9.3 80311.9 -1904.2  
2269 8.7 80313.6 -1948.2  
2270 9.3 80313.8 -1902.9  
2271 9.2 80318.5 -1943.7  
2272 9.2 80320.2 -1949.7  
2273 9.0 80325.1 -1914.5  
2274 9.3 80333.2 -1927.6  
  
2275 9.2 80348.6 -1944.2  
2276 8.7 80358.4 -1936.4  
2277 9.1 80406.1 -1923.1  
2278 9.0 80414.2 -1913.4  
2279 9.8 80432.4 -1937.4  
2280 9.5 80433.5 -1912.6  
2281 8.5 80506.1 -1952.0  
2282 9.5 80525.5 -1942.6  
2283 9.5 80535.9 -1905.5  
2284 9.5 80552.5 -1944.0  
  
2285 9.3 80558.4 -1913.3  
2286 8.8 80613.3 -1936.5  
2287 10. 80615.0 -1932.0  
2288 9.2 80633.4 -1938.8  
2289 8.9 80635.8 -1901.2  
2290 9.5 80638.1 -1920.4  
2291 9.8 80638.6 -1936.5  
2292 9.5 80639.7 -1924.5  
2293 8.8 80643.8 -1901.2  
2294 9.4 80707.2 -1928.9  
  
2295 9.3 80707.3 -1906.2  
2296 9.4 80710.5 -1919.4  
2297 9.8 80721.9 -1940.1  
2298 8.8 80723.7 -1913.5  
2299 9.3 80727.4 -1921.9  
2300 9.1 80732.1 -1913.8  
2301 9.3 80734.2 -1911.8  
2302 9.8 80742.7 -1901.0  
2303 9.1 80744.5 -1912.6  
2304 9.5 80745.6 -1954.1  
  
2305 8.3 80754.7 -1911.3  
2306 9.4 80758.5 -1925.5  
2307 9.4 80803.1 -1949.6  
2308 9.5 80806.2 -1927.5  
2309 9.5 80817.8 -1904.7  
2310 8.9 80822.4 -1954.9  
2311 9.5 80831.2 -1930.9  
2312 9.5 80841.0 -1914.9  
2313 9.1 80856.7 -1933.4  
2314 9.3 80858.0 -1925.1  
  
2315 9.1 80901.0 -1919.4  
2316 8.9 80911.4 -1916.0  
2317 10. 80919.8 -1908.3  
2318 9.4 80923.2 -1933.8  
2319 9.3 80923.6 -1950.0  
2320 9.7 80925.4 -1936.5  
2321 8.3 80928.3 -1937.1  
2322 9.3 80935.7 -1909.5  
2323 9.3 80941.5 -1922.2  
2324 9.5 80944.1 -1928.0  
  
2325 9.4 80944.9 -1935.1  
2326 10. 80955.9 -1911.9  
2327 8.2 80958.7 -1935.5  
2328 9.3 81003.9 -1906.7  
2329 9.5 81004.3 -1955.9  
2330 9.0 81004.7 -1908.4  
2331 9.5 81005.9 -1916.4  
2332 9.8 81014.6 -1913.5  
2333 9.1 81017.2 -1954.4  
2334 9.8 81019.7 -1913.2  
  
2335 8.5 81020.1 -1928.5  
2336 10. 81035.6 -1911.0  
2337 9.5 81046.1 -1928.3  
2338 9.1 81047.8 -1941.8  
2339 9.7 81051.7 -1901.5  
2340 9.6 81108.5 -1934.3  
2341 9.7 81114.3 -1926.0  
2342 9.4 81114.8 -1948.4  
2343 9.1 81128.3 -1959.3  
2344 8.8 81139.9 -1944.6  
  
2345 9.3 81147.0 -1919.4  
2346 9.0 81154.1 -1949.0  
2347 9.0 81156.1 -1950.2  
2348 8.9 81204.1 -1931.0  
2349 9.8 81224.2 -1908.1  
2350 9.5 81235.5 -1954.0  
2351 9.7 81242.7 -1942.8  
2352 9.3 81245.4 -1951.7  
2353 9.5 81248.9 -1945.9  
2354 9.4 81255.4 -1921.5

2355 7.0 81255.8 -1942.6  
2356 10. 81303.2 -1938.5  
2357 9.3 81305.2 -1911.7  
2358 9.8 81316.6 -1930.2  
2359 9.0 81318.3 -1940.0  
2360 9.8 81324.0 -1921.3  
2361 9.5 81330.0 -1936.7  
2362 9.0 81337.5 -1949.2  
2363 8.7 81341.9 -1917.5  
2364 8.7 81355.7 -1938.0  
  
2365 10. 81358.4 -1921.8  
2366 9.4 81429.3 -1942.9  
2367 9.5 81449.0 -1954.6  
2368 8.5 81452.1 -1905.6  
2369 5.8 81452.7 -1937.0  
2370 9.4 81500.6 -1955.2  
2371 9.2 81504.3 -1944.5  
2372 9.3 81504.4 -1926.0  
2373 9.6 81509.5 -1942.3  
2374 9.0 81518.7 -1957.7  
  
2375 8.8 81526.2 -1937.4  
2376 9.8 81536.8 -1940.7  
2377 9.2 81541.5 -1932.1  
2378 9.8 81547.9 -1950.0  
2379 9.0 81603.6 -1918.8  
2380 9.8 81614.2 -1942.9  
2381 9.8 81620.1 -1906.8  
2382 9.4 81629.9 -1951.6  
2383 9.7 81632.3 -1922.5  
2384 9.3 81641.6 -1936.0  
  
2385 9.4 81659.5 -1935.4  
2386 8.9 81702.1 -1917.3  
2387 9.5 81712.4 -1920.2  
2388 10. 81715.2 -1915.9  
2389 9.4 81724.3 -1949.8  
2390 9.6 81734.4 -1918.0  
2391 9.4 81743.4 -1914.7  
2392 9.6 81747.6 -1908.2  
2393 9.2 81759.7 -1932.9  
2394 9.2 81802.9 -1957.2  
  
2395 9.4 81814.7 -1941.3  
2396 9.3 81827.4 -1927.2  
2397 9.3 81832.9 -1928.3  
2398 9.4 81841.5 -1931.0  
2399 9.1 81907.0 -1922.0  
2400 8.7 81921.4 -1930.8  
2401 9.1 81924.5 -1911.8  
2402 9.8 81933.8 -1948.9  
2403 8.8 81934.1 -1908.1  
2404 9.3 82000.7 -1919.7  
  
2405 9.5 82029.0 -1938.5  
2406 9.2 82050.5 -1957.4  
2407 9.5 82052.2 -1931.2  
2408 9.4 82052.6 -1909.4  
2409 9.5 82054.8 -1941.7  
2410 9.7 82103.2 -1932.4  
2411 9.5 82117.1 -1943.6  
2412 9.5 82121.6 -1902.0  
2413 9.3 82121.6 -1913.4  
2414 9.5 82124.4 -1928.5  
  
2415 8.5 82126.2 -1942.9  
2416 9.5 82149.0 -1904.3  
2417 9.1 82200.5 -1918.2  
2418 9.2 82208.3 -1917.5  
2419 9.5 82225.9 -1918.6  
2420 8.8 82230.2 -1946.4  
2421 9.8 82232.0 -1904.9  
2422 9.3 82244.5 -1908.3  
2423 9.4 82251.9 -1918.4  
2424 8.5 82315.0 -1937.7  
  
2425 9.2 82321.9 -1915.4  
2426 9.4 82324.6 -1911.3  
2427 9.1 82344.8 -1934.6  
2428 9.8 82345.4 -1956.3  
2429 8.3 82352.2 -1948.5  
2430 9.5 82409.1 -1925.0  
2431 7.8 82435.7 -1948.7  
2432 9.1 82437.5 -1941.1  
2433 10. 82440.6 -1907.7  
2434 10. 82443.7 -1907.6  
  
2435 9.5 82450.3 -1953.8  
2436 7.7 82453.0 -1901.1  
2437 9.0 82458.7 -1951.2  
2438 5.6 82459.4 -1905.2  
2439 9.1 82500.3 -1940.7  
2440 9.3 82510.9 -1933.8  
2441 9.0 82521.6 -1945.0  
2442 9.5 82524.0 -1958.5  
2443 8.7 82537.9 -1911.5  
2444 8.2 82544.8 -1928.8

2445 9.5 82552.8 -1956.4  
2446 9.1 82602.6 -1935.0  
2447 10. 82607.0 -1922.0  
2448 9.4 82612.1 -1943.5  
2449 9.1 82614.2 -1947.5  
2450 9.5 82628.2 -1926.4  
2451 9.8 82629.9 -1916.8  
2452 8.8 82658.0 -1914.7  
2453 9.0 82659.1 -1916.7  
2454 9.8 82703.4 -1902.0  
  
2455 9.5 82712.9 -1912.0  
2456 9.5 82725.4 -1959.7  
2457 8.8 82726.8 -1934.1  
2458 9.3 82729.5 -1921.3  
2459 9.1 82732.6 -1945.0  
2460 9.0 82748.9 -1904.3  
2461 9.7 82750.8 -1918.1  
2462 9.8 82759.5 -1928.0  
2463 9.7 82810.9 -1932.8  
2464 9.5 82814.2 -1954.2  
  
2465 9.4 82857.8 -1949.7  
2466 8.6 82858.8 -1917.1  
2467 8.7 82859.6 -1951.0  
2468 9.8 82908.3 -1933.4  
2469 8.8 82926.7 -1934.7  
2470 9.4 82932.1 -1949.0  
2471 10. 82941.3 -1945.6  
2472 9.7 82953.2 -1930.0  
2473 9.6 83000.9 -1917.5  
2474 9.0 83005.0 -1931.6  
  
2475 9.1 83007.4 -1902.3  
2476 9.8 83014.0 -1922.0  
2477 9.1 83027.8 -1919.8  
2478 9.5 83030.4 -1921.0  
2479 9.5 83049.9 -1942.5  
2480 9.2 83055.4 -1944.3  
2481 9.5 83110.8 -1900.6  
2482 9.3 83117.4 -1901.2  
2483 8.0 83125.0 -1948.3  
2484 9.4 83134.5 -1945.0  
  
2485 9.0 83142.1 -1955.7  
2486 8.9 83145.7 -1911.4  
2487 9.0 83147.8 -1905.3  
2488 9.5 83149.2 -1934.9  
2489 6.7 83207.2 -1913.7  
2490 9.0 83219.8 -1936.4  
2491 9.0 83237.0 -1928.6  
2492 9.4 83237.3 -1930.0  
2493 9.8 83242.6 -1901.9  
2494 9.7 83247.7 -1908.5  
  
2495 9.4 83250.3 -1948.9  
2496 9.0 83250.4 -1955.3  
2497 9.6 83311.0 -1926.0  
2498 9.5 83418.6 -1911.4  
2499 9.3 83423.3 -1902.0  
2500 7.4 83435.8 -1924.0  
2501 9.8 83436.1 -1916.2  
2502 9.1 83441.3 -1926.5  
2503 9.2 83444.2 -1932.7  
2504 9.4 83504.3 -1922.4  
  
2505 8.3 83505.9 -1928.8  
2506 9.3 83523.0 -1918.9  
2507 9.6 83547.1 -1920.6  
2508 9.3 83550.0 -1916.7  
2509 9.5 83609.7 -1901.2  
2510 8.9 83648.9 -1933.8  
2511 9.1 83651.7 -1903.4  
2512 9.5 83657.1 -1907.0  
2513 9.0 83702.6 -1944.2  
2514 9.1 83735.6 -1906.7  
  
2515 7.3 83746.6 -1944.2  
2516 9.1 83755.2 -1910.8  
2517 9.2 83804.6 -1904.7  
2518 9.1 83842.6 -1908.2  
2519 8.9 83847.0 -1940.6  
2520 9.6 83851.1 -1912.4  
2521 9.2 83902.1 -1903.3  
2522 7.3 83947.2 -1954.0  
2523 9.1 83951.5 -1919.0  
2524 9.2 84012.1 -1923.2  
  
2525 9.4 84031.0 -1906.1  
2526 8.0 84037.0 -1947.0  
2527 9.9 84039.9 -1936.8  
2528 9.3 84111.9 -1938.8  
2529 8.0 84115.0 -1915.1  
2530 9.9 84123.1 -1942.8  
2531 9.5 84124.6 -1953.8  
2532 9.1 84125.3 -1923.2  
2533 9.9 84129.4 -1914.3  
2534 9.8 84152.6 -1955.4

-19 2624 9h01m  
2535 9.8 84158.4 -1959.3  
2536 9.4 84228.8 -1914.2  
2537 8.9 84243.3 -1956.5  
2538 9.6 84251.2 -1912.5  
2539 9.3 84313.1 -1902.7  
2540 9.9 84320.5 -1900.4  
2541 9.8 84320.5 -1958.5  
2542 10. 84336.3 -1958.4  
2543 9.6 84341.2 -1901.4  
2544 9.0 84354.1 -1915.3  
  
2545 9.5 84414.6 -1904.7  
2546 9.5 84428.5 -1919.8  
2547 9.5 84433.1 -1915.5  
2548 7.7 84446.1 -1958.6  
2549 9.3 84449.0 -1945.0  
2550 10. 84454.6 -1921.7  
2551 9.1 84515.6 -1953.5  
2552 9.1 84522.4 -1958.8  
2553 9.1 84527.9 -1941.0  
2554 9.5 84532.2 -1934.0  
  
2555 8.3 84553.7 -1959.4  
2556 9.8 84600.5 -1906.2  
2557 9.1 84716.6 -1931.0  
2558 7.5 84723.2 -1952.6  
2559 9.2 84731.1 -1929.6  
2560 9.8 84743.5 -1958.2  
2561 9.5 84746.0 -1939.1  
2562 9.8 84752.3 -1913.3  
2563 9.3 84817.4 -1936.5  
2564 9.3 84821.4 -1927.5  
  
2565 9.5 84830.3 -1913.4  
2566 8.9 84857.3 -1955.6  
2567 9.3 84906.9 -1932.9  
2568 9.5 84923.5 -1901.3  
2569 9.0 84924.5 -1915.2  
2570 9.3 84959.0 -1904.7  
2571 8.5 85011.4 -1936.5  
2572 9.1 85014.5 -1950.3  
2573 9.4 85018.2 -1906.5  
2574 9.2 85037.9 -1905.2  
  
2575 9.4 85049.7 -1905.4  
2576 8.8 85053.7 -1906.4  
2577 9.8 85103.5 -1953.0  
2578 9.3 85107.8 -1904.9  
2579 9.4 85119.7 -1923.5  
2580 9.7 85123.9 -1916.5  
2581 9.5 85124.3 -1935.0  
2582 9.6 85141.4 -1938.1  
2583 9.7 85156.9 -1958.0  
2584 9.8 85159.2 -1923.0  
  
2585 9.1 85212.9 -1947.8  
2586 9.2 85221.3 -1959.0  
2587 8.5 85224.6 -1954.3  
2588 9.1 85253.2 -1918.0  
2589 9.9 85325.5 -1957.4  
2590 9.9 85342.5 -1909.8  
2591 8.8 85359.6 -1938.8  
2592 9.8 85403.5 -1914.2  
2593 9.8 85408.0 -1933.4  
2594 9.5 85424.2 -1925.3  
  
2595 9.0 85441.5 -1908.2  
2596 9.1 85443.2 -1901.0  
2597 9.0 85520.3 -1928.1  
2598 10. 85534.0 -1933.8  
2599 9.0 85544.9 -1925.9  
2600 9.8 85556.9 -1945.8  
2601 9.8 85623.7 -1943.9  
2602 9.8 85626.0 -1912.1  
2603 7.7 85631.9 -1958.7  
2604 9.3 85707.3 -1941.1  
  
2605 8.5 85710.9 -1915.2  
2606 9.8 85727.1 -1959.6  
2607 9.8 85739.8 -1921.5  
2608 9.6 85740.9 -1915.0  
2609 9.8 85755.0 -1956.2  
2610 8.4 85755.6 -1929.5  
2611 9.8 85811.5 -1919.0  
2612 9.1 85815.5 -1903.1  
2613 9.0 85843.3 -1948.3  
2614 9.1 85849.1 -1931.8  
  
2615 9.3 85855.0 -1953.9  
2616 9.8 85901.7 -1941.6  
2617 8.5 85933.6 -1931.7  
2618 9.2 85935.0 -1922.8  
2619 9.8 85938.1 -1933.7  
2620 9.8 90041.7 -1942.7  
2621 9.8 90043.4 -1903.3  
2622 8.6 90045.2 -1945.8  
2623 9.4 90056.0 -1957.0  
2624 9.7 90119.8 -1954.0



|      |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|----------|---------|
| 2625 | 8.9 | 90125.1 | -1910.8 | 2715 | 9.0 | 92016.2 | -1903.0 | 2805 | 9.4 | 93825.1 | -1904.0 | 2895 | 8.6 | 95520.4  | -1904.2 |
| 2626 | 9.8 | 90127.5 | -1900.3 | 2716 | 9.8 | 92045.6 | -1942.7 | 2806 | 9.3 | 93826.6 | -1900.2 | 2896 | 9.2 | 95543.2  | -1952.2 |
| 2627 | 9.4 | 90139.0 | -1941.3 | 2717 | 9.8 | 92048.7 | -1941.0 | 2807 | 9.8 | 93829.4 | -1947.0 | 2897 | 7.0 | 95547.1  | -1943.6 |
| 2628 | 9.8 | 90144.1 | -1943.3 | 2718 | 9.8 | 92106.8 | -1925.9 | 2808 | 9.8 | 93831.0 | -1932.0 | 2898 | 9.8 | 95550.0  | -1928.8 |
| 2629 | 9.8 | 90203.0 | -1930.3 | 2719 | 9.4 | 92109.7 | -1910.4 | 2809 | 8.2 | 93835.3 | -1940.5 | 2899 | 9.1 | 95606.8  | -1902.8 |
| 2630 | 9.8 | 90209.3 | -1956.9 | 2720 | 9.8 | 92127.4 | -1930.1 | 2810 | 9.5 | 93855.9 | -1948.7 | 2900 | 9.8 | 95632.4  | -1901.5 |
| 2631 | 9.1 | 90214.9 | -1926.5 | 2721 | 9.6 | 92154.4 | -1937.8 | 2811 | 8.8 | 93856.6 | -1901.8 | 2901 | 9.9 | 95659.1  | -1941.5 |
| 2632 | 9.5 | 90228.0 | -1916.5 | 2722 | 10. | 92201.1 | -1915.4 | 2812 | 9.0 | 93911.4 | -1946.2 | 2902 | 9.0 | 95709.7  | -1912.2 |
| 2633 | 9.2 | 90228.2 | -1931.0 | 2723 | 8.0 | 92218.5 | -1947.9 | 2813 | 7.0 | 93919.5 | -1903.5 | 2903 | 9.3 | 95730.8  | -1907.0 |
| 2634 | 9.3 | 90243.7 | -1915.9 | 2724 | 9.3 | 92255.9 | -1957.4 | 2814 | 9.1 | 93922.8 | -1946.9 | 2904 | 9.5 | 95812.0  | -1946.6 |
| 2635 | 9.8 | 90251.6 | -1943.7 | 2725 | 9.1 | 92256.9 | -1903.9 | 2815 | 9.8 | 93926.4 | -1916.3 | 2905 | 9.8 | 95819.3  | -1948.3 |
| 2636 | 9.8 | 90309.4 | -1923.7 | 2726 | 9.0 | 92259.0 | -1945.0 | 2816 | 9.7 | 93928.1 | -1941.7 | 2906 | 9.8 | 95848.1  | -1956.8 |
| 2637 | 8.4 | 90313.3 | -1909.0 | 2727 | 9.8 | 92316.0 | -1953.8 | 2817 | 9.5 | 93933.7 | -1927.2 | 2907 | 9.8 | 95856.2  | -1909.1 |
| 2638 | 9.1 | 90313.4 | -1902.0 | 2728 | 9.2 | 92329.8 | -1911.4 | 2818 | 9.7 | 93936.7 | -1918.7 | 2908 | 8.5 | 95903.0  | -1950.6 |
| 2639 | 9.7 | 90320.8 | -1957.9 | 2729 | 8.5 | 92334.6 | -1910.2 | 2819 | 9.9 | 93954.3 | -1941.8 | 2909 | 9.0 | 95908.2  | -1905.0 |
| 2640 | 9.1 | 90337.3 | -1919.4 | 2730 | 9.7 | 92353.5 | -1958.1 | 2820 | 10. | 94013.4 | -1952.7 | 2910 | 9.8 | 95936.6  | -1949.3 |
| 2641 | 9.7 | 90339.2 | -1930.7 | 2731 | 9.1 | 92358.9 | -1944.1 | 2821 | 8.5 | 94013.4 | -1942.4 | 2911 | 9.1 | 95942.6  | -1946.7 |
| 2642 | 9.7 | 90457.9 | -1928.5 | 2732 | 9.4 | 92504.0 | -1959.5 | 2822 | 9.6 | 94016.2 | -1910.9 | 2912 | 9.7 | 95943.6  | -1926.7 |
| 2643 | 9.0 | 90515.4 | -1921.9 | 2733 | 9.7 | 92504.4 | -1919.3 | 2823 | 9.4 | 94017.5 | -1904.8 | 2913 | 9.6 | 95946.3  | -1903.0 |
| 2644 | 6.3 | 90519.2 | -1909.4 | 2734 | 9.0 | 92515.2 | -1929.5 | 2824 | 9.9 | 94033.6 | -1926.6 | 2914 | 9.7 | 95955.8  | -1921.2 |
| 2645 | 9.8 | 90525.5 | -1945.1 | 2735 | 9.8 | 92516.4 | -1921.7 | 2825 | 9.9 | 94040.7 | -1935.7 | 2915 | 8.8 | 100008.7 | -1905.9 |
| 2646 | 9.8 | 90601.3 | -1915.3 | 2736 | 9.5 | 92521.3 | -1941.9 | 2826 | 10. | 94044.5 | -1902.5 | 2916 | 9.2 | 100024.2 | -1928.7 |
| 2647 | 9.8 | 90604.9 | -1929.3 | 2737 | 9.2 | 92527.7 | -1928.6 | 2827 | 9.8 | 94110.2 | -1936.4 | 2917 | 9.8 | 100029.8 | -1920.6 |
| 2648 | 9.8 | 90647.5 | -1947.9 | 2738 | 9.8 | 92531.8 | -1953.8 | 2828 | 9.9 | 94116.6 | -1926.5 | 2918 | 7.2 | 100030.2 | -1900.2 |
| 2649 | 8.5 | 90700.1 | -1909.6 | 2739 | 9.9 | 92607.2 | -1930.1 | 2829 | 9.4 | 94139.6 | -1930.6 | 2919 | 9.3 | 100035.1 | -1917.8 |
| 2650 | 9.8 | 90701.2 | -1919.9 | 2740 | 9.8 | 92619.2 | -1926.0 | 2830 | 8.2 | 94143.0 | -1917.1 | 2920 | 9.6 | 100050.3 | -1944.7 |
| 2651 | 9.8 | 90701.9 | -1934.2 | 2741 | 10. | 92633.2 | -1938.2 | 2831 | 9.2 | 94155.9 | -1909.5 | 2921 | 9.7 | 100058.6 | -1951.1 |
| 2652 | 9.0 | 90708.1 | -1954.2 | 2742 | 9.8 | 92640.5 | -1938.7 | 2832 | 9.2 | 94157.7 | -1909.5 | 2922 | 9.5 | 100109.4 | -1937.5 |
| 2653 | 8.2 | 90709.6 | -1937.8 | 2743 | 9.8 | 92704.6 | -1923.5 | 2833 | 10. | 94218.3 | -1953.1 | 2923 | 9.6 | 100110.3 | -1910.4 |
| 2654 | 8.7 | 90710.0 | -1942.3 | 2744 | 8.5 | 92709.5 | -1915.2 | 2834 | 10. | 94234.5 | -1917.7 | 2924 | 8.6 | 100116.4 | -1948.7 |
| 2655 | 8.2 | 90711.2 | -1922.9 | 2745 | 9.1 | 92717.5 | -1910.6 | 2835 | 10. | 94236.7 | -1903.3 | 2925 | 9.8 | 100129.8 | -1919.8 |
| 2656 | 9.8 | 90716.3 | -1927.8 | 2746 | 9.5 | 92725.4 | -1910.8 | 2836 | 9.6 | 94250.6 | -1909.5 | 2926 | 7.7 | 100129.9 | -1901.9 |
| 2657 | 9.5 | 90725.2 | -1912.4 | 2747 | 9.2 | 92748.4 | -1958.6 | 2837 | 10. | 94205.8 | -1950.2 | 2927 | 9.6 | 100143.1 | -1951.8 |
| 2658 | 9.8 | 90734.4 | -1936.9 | 2748 | 9.8 | 92800.0 | -1902.6 | 2838 | 9.5 | 94314.5 | -1900.2 | 2928 | 8.8 | 100150.5 | -1936.6 |
| 2659 | 8.0 | 90747.3 | -1924.1 | 2749 | 9.1 | 92804.1 | -1934.0 | 2839 | 9.0 | 94314.6 | -1935.9 | 2929 | 10. | 100218.7 | -1922.9 |
| 2660 | 7.3 | 90823.3 | -1930.7 | 2750 | 9.8 | 92825.3 | -1942.9 | 2840 | 9.9 | 94340.2 | -1950.0 | 2930 | 9.8 | 100244.5 | -1953.1 |
| 2661 | 9.5 | 90823.7 | -1912.7 | 2751 | 9.8 | 92829.4 | -1918.8 | 2841 | 9.6 | 94350.8 | -1906.0 | 2931 | 8.8 | 100253.1 | -1915.4 |
| 2662 | 9.0 | 90836.9 | -1911.8 | 2752 | 9.8 | 92909.7 | -1917.1 | 2842 | 8.5 | 94400.5 | -1926.3 | 2932 | 9.3 | 100301.4 | -1951.3 |
| 2663 | 9.6 | 90847.5 | -1919.5 | 2753 | 8.4 | 92916.3 | -1954.6 | 2843 | 9.0 | 94406.2 | -1915.8 | 2933 | 9.6 | 100317.8 | -1938.2 |
| 2664 | 9.4 | 90853.4 | -1940.0 | 2754 | 9.9 | 92928.1 | -1948.2 | 2844 | 8.7 | 94415.5 | -1927.6 | 2934 | 9.6 | 100350.0 | -1958.9 |
| 2665 | 9.0 | 90857.8 | -1931.5 | 2755 | 9.0 | 92934.2 | -1944.9 | 2845 | 9.8 | 94419.9 | -1918.4 | 2935 | 9.4 | 100358.2 | -1958.2 |
| 2666 | 9.2 | 90940.5 | -1927.9 | 2756 | 9.8 | 92934.8 | -1927.3 | 2846 | 9.7 | 94429.8 | -1906.0 | 2936 | 9.6 | 100403.1 | -1958.1 |
| 2667 | 9.1 | 91013.2 | -1933.2 | 2757 | 9.4 | 92947.1 | -1940.6 | 2847 | 9.8 | 94440.2 | -1952.6 | 2937 | 8.8 | 100405.7 | -1914.5 |
| 2668 | 9.0 | 91031.9 | -1949.3 | 2758 | 9.6 | 93006.1 | -1910.0 | 2848 | 9.2 | 94445.0 | -1901.2 | 2938 | 8.5 | 100406.9 | -1955.9 |
| 2669 | 9.3 | 91032.8 | -1943.7 | 2759 | 9.8 | 93017.2 | -1944.4 | 2849 | 8.6 | 94501.4 | -1905.0 | 2939 | 8.6 | 100418.3 | -1931.0 |
| 2670 | 9.8 | 91039.4 | -1902.4 | 2760 | 9.8 | 93017.3 | -1935.2 | 2850 | 8.0 | 94501.5 | -1921.8 | 2940 | 9.5 | 100426.0 | -1913.7 |
| 2671 | 9.0 | 91114.9 | -1902.0 | 2761 | 9.3 | 93023.0 | -1956.4 | 2851 | 9.4 | 94528.5 | -1931.5 | 2941 | 9.5 | 100427.0 | -1905.8 |
| 2672 | 9.6 | 91137.7 | -1926.3 | 2762 | 9.5 | 93043.7 | -1958.3 | 2852 | 9.8 | 94548.6 | -1937.1 | 2942 | 9.8 | 100433.8 | -1933.0 |
| 2673 | 9.0 | 91140.3 | -1945.2 | 2763 | 9.3 | 93105.1 | -1937.5 | 2853 | 10. | 94604.3 | -1916.2 | 2943 | 9.8 | 100456.0 | -1916.0 |
| 2674 | 8.0 | 91145.8 | -1945.2 | 2764 | 9.4 | 93113.6 | -1940.8 | 2854 | 9.5 | 94626.6 | -1935.7 | 2944 | 9.2 | 100504.9 | -1907.8 |
| 2675 | 9.7 | 91218.1 | -1957.2 | 2765 | 9.6 | 93128.4 | -1913.8 | 2855 | 10. | 94627.3 | -1916.8 | 2945 | 9.9 | 100505.9 | -1915.4 |
| 2676 | 9.0 | 91228.3 | -1949.7 | 2766 | 9.6 | 93131.4 | -1916.7 | 2856 | 8.8 | 94708.7 | -1908.9 | 2946 | 9.5 | 100518.6 | -1918.4 |
| 2677 | 9.5 | 91233.8 | -1939.9 | 2767 | 8.6 | 93137.6 | -1953.5 | 2857 | 8.4 | 94733.5 | -1936.9 | 2947 | 9.0 | 100535.9 | -1906.3 |
| 2678 | 9.4 | 91244.2 | -1911.6 | 2768 | 9.8 | 93200.2 | -1951.8 | 2858 | 9.3 | 94736.4 | -1912.8 | 2948 | 9.5 | 100557.2 | -1924.0 |
| 2679 | 9.7 | 91256.3 | -1959.0 | 2769 | 9.7 | 93206.4 | -1923.5 | 2859 | 9.3 | 94737.3 | -1946.0 | 2949 | 9.1 | 100621.1 | -1927.3 |
| 2680 | 9.2 | 91307.9 | -1959.3 | 2770 | 9.3 | 93207.9 | -1931.5 | 2860 | 9.6 | 94742.1 | -1959.9 | 2950 | 9.0 | 100622.4 | -1914.9 |
| 2681 | 9.5 | 91310.4 | -1906.6 | 2771 | 9.4 | 93211.7 | -1936.6 | 2861 | 9.4 | 94801.8 | -1910.6 | 2951 | 9.5 | 100636.1 | -1920.0 |
| 2682 | 9.6 | 91313.6 | -1920.9 | 2772 | 9.6 | 93247.6 | -1955.7 | 2862 | 9.3 | 94803.6 | -1930.2 | 2952 | 9.3 | 100658.6 | -1911.3 |
| 2683 | 9.8 | 91315.3 | -1932.3 | 2773 | 9.4 | 93251.9 | -1924.3 | 2863 | 9.1 | 94811.7 | -1908.0 | 2953 | 9.3 | 100709.0 | -1900.6 |
| 2684 | 9.7 | 91321.4 | -1912.3 | 2774 | 9.0 | 93257.9 | -1958.1 | 2864 | 9.2 | 94838.4 | -1928.7 | 2954 | 9.8 | 100718.1 | -1922.9 |
| 2685 | 9.0 | 91354.7 | -1940.4 | 2775 | 9.8 | 93218.1 | -1946.6 | 2865 | 8.0 | 94839.4 | -1917.8 | 2955 | 9.8 | 100726.0 | -1925.0 |
| 2686 | 9.7 | 91405.4 | -1912.3 | 2776 | 9.0 | 93320.0 | -1909.8 | 2866 | 9.6 | 94840.3 | -1958.7 | 2956 | 9.5 | 100747.6 | -1928.0 |
| 2687 | 9.8 | 91414.4 | -1956.2 | 2777 | 9.1 | 93321.6 | -1957.1 | 2867 | 9.1 | 94846.3 | -1900.6 | 2957 | 9.3 | 100833.6 | -1910.4 |
| 2688 | 9.3 | 91418.1 | -1918.4 | 2778 | 9.7 | 93332.2 | -1953.7 | 2868 | 9.8 | 94852.7 | -1914.7 | 2958 | 9.5 | 100839.2 | -1941.0 |
| 2689 | 9.0 | 91422.1 | -1933.8 | 2779 | 9.1 | 93340.0 | -1934.1 | 2869 | 9.4 | 94858.8 | -1908.8 | 2959 | 9.2 | 100839.8 | -1911.3 |
| 2690 | 9.5 | 91425.4 | -1904.5 | 2780 | 10. | 93422.9 | -1921.0 | 2870 | 8.7 | 94911.0 | -1915.6 | 2960 | 9.0 | 100845.4 | -1906.9 |
| 2691 | 9.8 | 91437.6 | -1928.7 | 2781 | 9.8 | 93424.2 | -1938.5 | 2871 | 8.0 | 94924.2 | -1901.5 | 2961 | 10. | 100853.6 | -1916.1 |
| 2692 | 9.8 | 91450.0 | -1931.6 | 2782 | 9.4 | 93428.8 | -1928.4 | 2872 | 9.5 | 95009.4 | -1942.0 | 2962 | 9.4 | 100906.7 | -1916.7 |
| 2693 | 9.5 | 91453.3 | -1912.4 | 2783 | 9.4 | 93454.9 | -1914.0 | 2873 | 9.8 | 95028.1 | -1940.4 | 2963 | 9.4 | 100942.1 | -1945.6 |
| 2694 | 9.3 | 91502.9 | -1906.5 | 2784 | 9.8 | 93500.5 | -1952.5 | 2874 | 9.7 | 95035.9 | -1935.0 | 2964 | 6.6 | 100953.0 | -1956.6 |
| 2695 | 9.3 | 91522.1 | -1937.0 | 2785 | 8.6 | 93503.7 | -1941.9 | 2875 | 9.7 | 95036.1 | -1953.3 | 2965 | 8.7 | 100956.1 | -1946.0 |
| 2696 | 9.8 | 91530.5 | -1927.7 | 2786 | 8.5 | 93506.3 | -1930.7 | 2876 | 9.5 | 95125.0 | -1944.9 | 2966 | 9.8 | 101002.5 | -1933.3 |
| 2697 | 9.5 | 91551.2 | -1959.4 | 2787 | 9.6 | 93508.3 | -1927.7 | 2877 | 9.0 | 95136.3 | -1936.1 | 2967 | 10. | 101036.9 | -1905.3 |
| 2698 | 9.6 | 91602.1 | -1936.5 | 2788 | 10. | 93530.4 | -1945.7 | 2878 | 9.8 | 95147.2 | -1924.1 | 2968 | 9.2 | 101051.1 | -1944.2 |
| 2699 |     |         |         |      |     |         |         |      |     |         |         |      |     |          |         |



2985 9.4 101447.1 -1911.4  
 2986 7.5 101506.0 -1950.5  
 2987 6.5 101516.9 -1908.1  
 2988 8.5 101517.7 -1956.7  
 2989 9.4 101523.9 -1950.0  
 2990 9.5 101525.7 -1941.4  
 2991 10. 101532.2 -1920.7  
 2992 9.5 101600.3 -1942.3  
 2993 10. 101638.8 -1900.1  
 2994 8.2 101643.7 -1930.3

2995 9.9 101646.7 -1915.8  
 2996 8.8 101648.3 -1911.2  
 2997 10. 101652.6 -1909.1  
 2998 9.5 101708.7 -1959.5  
 2999 8.7 101711.0 -1903.0  
 3000 8.8 101714.6 -1928.1  
 3001 9.8 101730.0 -1914.5  
 3002 10. 101805.4 -1902.7  
 3003 9.0 101806.8 -1952.0  
 3004 10. 101813.6 -1904.7

3005 8.1 101819.0 -1904.1  
 3006 7.7 101855.2 -1935.3  
 3007 9.2 101856.9 -1915.1  
 3008 8.9 101905.4 -1902.9  
 3009 9.3 101906.9 -1911.9  
 3010 9.5 101911.1 -1926.7  
 3011 9.6 101927.1 -1931.5  
 3012 8.7 101941.2 -1942.8  
 3013 10. 101957.0 -1918.2  
 3014 9.8 102003.5 -1924.2

3015 10. 102031.3 -1929.3  
 3016 9.5 102033.8 -1934.4  
 3017 9.0 102035.9 -1939.9  
 3018 9.1 102040.8 -1942.8  
 3019 9.3 102043.5 -1946.3  
 3020 9.4 102046.9 -1900.1  
 3021 9.4 102049.8 -1900.1  
 3022 9.2 102109.1 -1922.3  
 3023 9.0 102131.8 -1956.3  
 3024 9.8 102203.8 -1906.7

3025 10. 102240.1 -1924.4  
 3026 10. 102255.9 -1909.6  
 3027 9.8 102315.0 -1938.7  
 3028 8.7 102315.8 -1951.3  
 3029 8.6 102322.8 -1906.7  
 3030 9.6 102330.7 -1942.1  
 3031 9.6 102332.9 -1940.4  
 3032 9.8 102335.1 -1919.0  
 3033 9.0 102338.4 -1934.6  
 3034 8.8 102348.3 -1921.4

3035 8.9 102415.7 -1907.3  
 3036 9.1 102441.0 -1954.0  
 3037 9.3 102450.9 -1903.4  
 3038 8.2 102501.9 -1936.2  
 3039 9.7 102514.0 -1950.5  
 3040 9.4 102522.3 -1957.4  
 3041 9.8 102552.5 -1946.4  
 3042 8.9 102634.4 -1918.2  
 3043 9.8 102631.2 -1913.9  
 3044 8.5 102632.0 -1926.2

3045 9.1 102632.6 -1938.8  
 3046 9.5 102639.8 -1910.2  
 3047 9.5 102639.9 -1906.9  
 3048 9.2 102715.9 -1956.2  
 3049 9.8 102726.6 -1901.1  
 3050 9.0 102731.2 -1903.7  
 3051 9.5 102740.6 -1902.1  
 3052 10. 102811.0 -1956.3  
 3053 9.7 102823.1 -1913.4  
 3054 9.0 102826.2 -1938.6

3055 9.3 102851.9 -1932.8  
 3056 9.1 102853.2 -1914.2  
 3057 9.4 102904.8 -1943.3  
 3058 9.5 102905.1 -1959.8  
 3059 10. 102937.5 -1901.5  
 3060 9.3 102938.8 -1945.7  
 3061 9.7 102941.3 -1950.9  
 3062 8.0 102948.7 -1908.0  
 3063 9.8 103019.5 -1906.0  
 3064 8.7 103040.7 -1932.5

3065 9.4 103054.5 -1921.1  
 3066 9.2 103059.1 -1926.2  
 3067 9.8 103100.5 -1910.4  
 3068 9.7 103125.2 -1906.4  
 3069 10. 103143.4 -1906.2  
 3070 8.0 103146.2 -1949.4  
 3071 9.2 103219.7 -1949.5  
 3072 9.8 103236.5 -1928.1  
 3073 9.9 103306.8 -1903.0  
 3074 9.8 103323.2 -1953.2

3075 9.4 103338.1 -1948.7  
 3076 10. 103347.4 -1905.5  
 3077 9.1 103358.5 -1932.6  
 3078 9.6 103359.4 -1929.5  
 3079 9.0 103402.5 -1933.5  
 3080 7.5 103521.6 -1950.4  
 3081 9.4 103534.0 -1943.7  
 3082 9.5 103535.9 -1933.4  
 3083 9.4 103609.2 -1900.8  
 3084 9.8 103622.1 -1933.4

3085 9.5 103632.8 -1927.2  
 3086 9.6 103633.2 -1912.3  
 3087 9.8 103659.3 -1956.2  
 3088 10. 103701.5 -1910.4  
 3089 9.1 103710.9 -1918.9  
 3090 9.8 103718.3 -1928.0  
 3091 9.8 103738.8 -1954.9  
 3092 9.3 103754.8 -1956.5  
 3093 9.4 103803.0 -1946.5  
 3094 9.8 103819.8 -1943.7

3095 9.2 103839.0 -1951.1  
 3096 9.1 103856.8 -1924.2  
 3097 8.5 103859.7 -1906.0  
 3098 9.8 103921.6 -1929.9  
 3099 10. 103924.5 -1959.1  
 3100 9.8 103937.6 -1929.2  
 3101 8.9 103953.6 -1906.9  
 3102 10. 104037.5 -1905.6  
 3103 9.5 104045.0 -1918.5  
 3104 8.0 104051.6 -1934.5

3105 9.6 104115.3 -1953.7  
 3106 9.6 104117.2 -1954.3  
 3107 9.8 104124.5 -1902.2  
 3108 9.0 104155.4 -1938.6  
 3109 9.5 104213.6 -1933.2  
 3110 9.3 104221.9 -1915.5  
 3111 9.4 104225.0 -1909.3  
 3112 9.8 104236.7 -1932.3  
 3113 8.8 104321.9 -1925.2  
 3114 8.3 104339.8 -1915.8

3115 9.6 104354.1 -1951.1  
 3116 9.5 104415.6 -1945.9  
 3117 9.1 104443.3 -1923.7  
 3118 9.3 104501.7 -1914.9  
 3119 9.0 104511.8 -1901.5  
 3120 9.7 104553.5 -1958.8  
 3121 9.7 104559.4 -1917.0  
 3122 7.0 104602.5 -1950.8  
 3123 9.2 104607.6 -1918.0  
 3124 9.1 104619.8 -1924.0

3125 5.0 104624.2 -1921.1  
 3126 8.7 104629.8 -1927.8  
 3127 10. 104635.7 -1911.1  
 3128 9.2 104640.8 -1928.7  
 3129 9.8 104658.9 -1947.8  
 3130 10. 104707.2 -1928.8  
 3131 8.0 104724.2 -1927.6  
 3132 9.4 104729.8 -1941.9  
 3133 10. 104745.3 -1941.9  
 3134 6.5 104806.9 -1953.5

3135 9.5 104812.2 -1935.4  
 3136 10. 104846.7 -1912.0  
 3137 8.8 104914.7 -1909.9  
 3138 9.1 104917.6 -1929.5  
 3139 9.1 104918.5 -1949.4  
 3140 9.0 104939.8 -1953.4  
 3141 9.8 104953.4 -1915.2  
 3142 9.3 104953.6 -1923.5  
 3143 9.5 105001.6 -1923.0  
 3144 9.4 105007.1 -1922.8

3145 9.7 105024.2 -1914.7  
 3146 10. 105051.5 -1923.7  
 3147 9.0 105101.8 -1912.9  
 3148 9.8 105115.4 -1955.7  
 3149 9.1 105143.2 -1946.3  
 3150 8.8 105147.1 -1916.6  
 3151 10. 105148.1 -1937.5  
 3152 10. 105228.7 -1951.6  
 3153 9.8 105239.2 -1946.0  
 3154 8.3 105201.7 -1916.3

3155 9.4 105312.1 -1913.1  
 3156 9.1 105330.5 -1902.8  
 3157 9.4 105338.0 -1932.4  
 3158 9.9 105339.7 -1956.8  
 3159 9.4 105410.6 -1922.1  
 3160 9.5 105413.0 -1911.0  
 3161 8.9 105419.2 -1901.7  
 3162 9.1 105433.5 -1908.4  
 3163 8.0 105438.0 -1916.4  
 3164 9.1 105444.9 -1959.7

3165 9.4 105511.9 -1902.1  
 3166 9.0 105613.0 -1952.5  
 3167 9.8 105648.2 -1932.8  
 3168 8.8 105649.0 -1958.4  
 3169 9.1 105717.8 -1936.2  
 3170 9.8 105821.4 -1945.4  
 3171 9.1 105834.9 -1919.1  
 3172 8.2 105842.8 -1937.5  
 3173 9.5 105904.9 -1950.0  
 3174 9.4 105907.8 -1908.9

3175 8.9 105919.3 -1907.4  
 3176 8.2 105929.0 -1954.8  
 3177 9.6 105937.6 -1920.9  
 3178 9.2 105957.1 -1915.0  
 3179 9.8 106054.8 -1906.5  
 3180 9.8 106110.8 -1941.6  
 3181 9.5 106120.1 -1937.5  
 3182 9.3 106122.2 -1920.1  
 3183 8.0 106135.7 -1916.1  
 3184 9.0 106141.0 -1918.9

3185 7.5 110157.7 -1943.3  
 3186 9.0 110203.5 -1922.5  
 3187 9.8 110219.6 -1900.6  
 3188 9.9 110228.2 -1918.3  
 3189 9.8 110301.7 -1955.7  
 3190 8.8 110304.7 -1920.1  
 3191 9.8 110309.2 -1955.5  
 3192 8.8 110310.3 -1937.0  
 3193 9.9 110350.0 -1928.1  
 3194 9.9 110413.6 -1950.9

3195 8.8 110423.9 -1923.1  
 3196 9.8 110427.1 -1943.9  
 3197 10. 110441.1 -1950.9  
 3198 7.5 110444.2 -1921.6  
 3199 9.7 110515.2 -1918.9  
 3200 10. 110541.1 -1956.9  
 3201 9.7 110557.4 -1959.4  
 3202 8.2 110559.0 -1945.3  
 3203 9.4 110600.8 -1906.2  
 3204 10. 110620.3 -1920.2

3205 8.2 110627.0 -1939.7  
 3206 8.7 110646.4 -1908.0  
 3207 9.9 110657.2 -1914.6  
 3208 8.0 110732.5 -1952.0  
 3209 9.8 110749.4 -1940.8  
 3210 9.0 110815.6 -1904.6  
 3211 9.8 110825.8 -1927.1  
 3212 9.8 110832.9 -1936.3  
 3213 9.3 110848.7 -1920.7  
 3214 8.8 110850.6 -1921.5

3215 7.6 110904.5 -1953.9  
 3216 10. 110908.0 -1921.9  
 3217 9.4 110919.4 -1940.0  
 3218 8.9 110921.4 -1956.7  
 3219 9.7 110932.5 -1954.9  
 3220 9.8 110933.9 -1906.3  
 3221 8.2 111017.7 -1958.5  
 3222 9.7 111020.0 -1918.8  
 3223 9.5 111046.7 -1957.7  
 3224 9.1 111049.6 -1951.4

3225 9.8 111053.7 -1915.0  
 3226 9.1 111101.6 -1954.2  
 3227 10. 111135.0 -1944.4  
 3228 10. 111143.4 -1926.7  
 3229 8.8 111154.8 -1955.0  
 3230 8.0 111157.3 -1926.0  
 3231 9.0 111203.0 -1902.3  
 3232 9.5 111210.0 -1941.4  
 3233 9.4 111233.9 -1902.9  
 3234 9.4 111237.0 -1902.5

3235 10. 111242.6 -1915.8  
 3236 9.1 111304.1 -1959.0  
 3237 8.7 111311.5 -1952.9  
 3238 9.2 111323.0 -1913.5  
 3239 9.8 111324.2 -1930.1  
 3240 10. 111333.4 -1938.1  
 3241 9.5 111358.3 -1929.9  
 3242 8.7 111412.9 -1939.3  
 3243 9.4 111421.3 -1932.5  
 3244 9.4 111422.0 -1920.7

3245 8.7 111433.9 -1942.6  
 3246 9.6 111501.3 -1921.0  
 3247 9.4 111503.6 -1923.7  
 3248 9.6 111508.7 -1956.6  
 3249 8.0 111531.3 -1904.3  
 3250 7.5 111544.8 -1949.6  
 3251 8.7 111608.3 -1911.5  
 3252 9.8 111608.3 -1905.6  
 3253 9.2 111632.9 -1919.2  
 3254 8.3 111639.3 -1907.0

3255 10. 111644.4 -1950.2  
 3256 9.3 111644.8 -1922.2  
 3257 9.8 111651.1 -1921.6  
 3258 9.4 111721.3 -1952.9  
 3259 9.2 111729.5 -1902.5  
 3260 9.5 111733.1 -1932.6  
 3261 9.3 111738.2 -1901.6  
 3262 9.8 111757.1 -1932.8  
 3263 9.7 111757.4 -1957.1  
 3264 9.3 111817.4 -1958.0

3265 7.0 111848.2 -1946.8  
 3266 9.5 111849.4 -1916.8  
 3267 9.1 111855.4 -1912.5  
 3268 9.8 111948.2 -1923.1  
 3269 8.7 111958.4 -1916.9  
 3270 8.7 112002.9 -1959.5  
 3271 9.1 112010.1 -1947.6  
 3272 8.9 112050.6 -1914.5  
 3273 9.8 112211.8 -1923.5  
 3274 9.8 112224.3 -1909.7

3275 8.8 112253.4 -1925.2  
 3276 9.7 112258.0 -1938.2  
 3277 9.3 112305.5 -1925.0  
 3278 9.2 112324.5 -1907.6  
 3279 9.4 112326.0 -1952.1  
 3280 8.8 112328.1 -1905.8  
 3281 8.8 112336.2 -1901.7  
 3282 8.0 112341.3 -1923.8  
 3283 9.6 112347.4 -1940.0  
 3284 9.4 112429.3 -1957.0

3285 6.3 112433.0 -1958.5  
 3286 9.4 112436.5 -1917.4  
 3287 9.8 112449.4 -1950.3  
 3288 9.1 112505.4 -1907.0  
 3289 9.5 112516.3 -1958.3  
 3290 10. 112537.8 -1900.3  
 3291 8.7 112549.8 -1901.2  
 3292 9.1 112612.3 -1942.3  
 3293 8.7 112620.9 -1944.3  
 3294 9.8 112622.7 -1933.1

3295 9.8 112624.8 -1901.9  
 3296 9.2 112627.3 -1905.1  
 3297 10. 112635.9 -1950.0  
 3298 9.0 112719.1 -1929.9  
 3299 9.9 112741.3 -1905.9  
 3300 10. 112748.6 -1930.7  
 3301 9.1 112750.2 -1935.2  
 3302 8.0 112755.3 -1945.0  
 3303 9.5 112800.8 -1946.1  
 3304 9.2 112811.7 -1942.7

3305 9.8 112818.1 -1958.3  
 3306 9.3 112837.2 -1908.7  
 3307 9.4 112858.3 -1951.2  
 3308 9.1 112923.7 -1943.3  
 3309 9.1 112930.1 -1959.4  
 3310 9.1 113002.5 -1931.6  
 3311 10. 113037.4 -1924.4  
 3312 8.8 113051.3 -1954.6  
 3313 10. 113113.2 -1914.8  
 3314 9.6 113115.0 -1920.8

3315 9.1 113123.1 -1942.1  
 3316 9.9 113207.5 -1950.0  
 3317 9.8 113209.4 -1933.5  
 3318 9.3 113235.6 -1956.7  
 3319 9.4 113246.6 -1955.6  
 3320 9.5 113300.5 -1942.9  
 3321 10. 113304.5 -1948.0  
 3322 9.5 113324.8 -1950.7  
 3323 10. 113410.7 -1900.5  
 3324 9.1 113421.7 -1914.1

3325 9.4 113424.4 -1915.9  
 3326 6.3 113444.8 -1929.0  
 3327 10. 113520.3 -1935.1  
 3328 8.3 113600.4 -1959.7  
 3329 7.2 113603.5 -1901.0  
 3330 9.4 113618.3 -1937.1  
 3331 9.7 113628.9 -1909.5  
 3332 10. 113652.9 -1955.6  
 3333 7.2 113705.4 -1953.1  
 3334 10. 113706.3 -1913.5

3335 8.8 113716.6 -1936.7  
 3336 9.4 113743.3 -1905.6  
 3337 9.5 113829.8 -1921.3  
 3338 9.5 113833.6 -1925.5  
 3339 10. 113840.3 -1939.4  
 3340 9.8 113856.9 -1955.7  
 3341 9.8 113917.7 -1959.8  
 3342 9.6 113943.7 -1917.0  
 3343 9.5 113954.5 -1912.4  
 3344 9.8 114006.7 -1949.9



3345 9.1 114008.4 -1920.4  
 3346 9.8 114017.6 -1916.2  
 3347 9.3 114041.0 -1947.1  
 3348 9.5 114059.7 -1915.0  
 3349 9.0 114116.9 -1922.7  
 3350 9.1 114137.1 -1905.9  
 3351 9.8 114146.9 -1915.2  
 3352 8.6 114153.0 -1932.2  
 3353 9.5 114241.5 -1938.2  
 3354 9.0 114256.1 -1901.6

3355 10. 114302.9 -1932.6  
 3356 10. 114316.5 -1936.8  
 3357 10. 114407.2 -1925.0  
 3358 9.9 114408.9 -1936.5  
 3359 10. 114411.5 -1920.3  
 3360 8.3 114457.8 -1910.3  
 3361 9.5 114603.4 -1949.5  
 3362 8.6 114615.7 -1932.8  
 3363 10. 114627.0 -1953.1  
 3364 8.6 114628.8 -1941.8

3365 9.8 114655.6 -1945.3  
 3366 9.8 114658.9 -1919.8  
 3367 9.4 114702.9 -1957.5  
 3368 10. 114726.3 -1908.1  
 3369 9.2 114731.8 -1941.7  
 3370 9.6 114752.5 -1959.0  
 3371 9.8 114800.1 -1946.0  
 3372 9.0 114829.3 -1902.9  
 3373 9.4 114836.8 -1950.0  
 3374 9.0 114839.1 -1910.6

3375 9.2 114940.3 -1917.4  
 3376 9.6 115019.0 -1955.4  
 3377 10. 115025.1 -1929.1  
 3378 10. 115041.7 -1918.0  
 3379 9.7 115050.1 -1954.5  
 3380 9.0 115056.9 -1916.4  
 3381 10. 115116.5 -1932.2  
 3382 8.0 115144.3 -1932.2  
 3383 9.9 115150.8 -1911.0  
 3384 9.9 115224.7 -1945.8

3385 9.3 115247.9 -1955.9  
 3386 9.8 115256.0 -1941.7  
 3387 10. 115313.9 -1936.4  
 3388 9.5 115325.0 -1937.9  
 3389 9.5 115327.8 -1914.7  
 3390 8.3 115330.5 -1949.6  
 3391 9.2 115332.1 -1912.2  
 3392 7.5 115358.3 -1951.3  
 3393 9.6 115359.6 -1918.0  
 3394 9.9 115434.6 -1929.8

3395 7.6 115437.8 -1959.9  
 3396 9.8 115459.7 -1931.6  
 3397 9.4 115529.2 -1924.9  
 3398 9.6 115540.1 -1938.2  
 3399 9.9 115623.0 -1958.6  
 3400 9.0 115636.6 -1945.0  
 3401 9.4 115706.4 -1900.8  
 3402 9.0 115706.6 -1949.0  
 3403 9.7 115749.1 -1941.6  
 3404 9.4 115800.6 -1912.2

3405 9.1 115836.7 -1958.4  
 3406 9.0 115840.5 -1928.8  
 3407 8.3 115848.4 -1914.0  
 3408 8.6 115909.7 -1955.9  
 3409 9.4 115930.0 -1940.3  
 3410 9.5 115943.4 -1946.1  
 3411 9.5 120011.9 -1928.5  
 3412 9.4 120023.0 -1926.0  
 3413 10. 120113.3 -1914.1  
 3414 9.7 120115.1 -1916.1

3415 9.0 120132.2 -1907.6  
 3416 9.5 120155.3 -1948.3  
 3417 8.8 120219.2 -1904.4  
 3418 9.2 120222.9 -1914.2  
 3419 9.0 120223.2 -1900.8  
 3420 9.5 120228.3 -1947.6  
 3421 8.5 120243.8 -1922.9  
 3422 9.2 120247.8 -1928.4  
 3423 9.2 120345.2 -1913.1  
 3424 7.2 120422.1 -1907.4

3425 9.1 120450.6 -1910.9  
 3426 7.7 120451.4 -1903.9  
 3427 9.6 120500.0 -1959.2  
 3428 8.9 120507.9 -1918.5  
 3429 8.7 120510.6 -1900.6  
 3430 9.8 120518.2 -1913.3  
 3431 9.1 120518.5 -1914.7  
 3432 9.5 120528.2 -1932.6  
 3433 9.5 120539.2 -1934.7  
 3434 8.7 120540.0 -1955.8

3435 9.6 120542.7 -1949.9  
 3436 9.8 120603.6 -1928.9  
 3437 7.5 120617.9 -1931.1  
 3438 9.3 120619.2 -1915.6  
 3439 9.6 120620.0 -1933.6  
 3440 10. 120646.1 -1947.9  
 3441 8.7 120700.2 -1918.1  
 3442 9.7 120727.6 -1937.2  
 3443 9.5 120751.2 -1918.6  
 3444 10. 120757.3 -1959.4

3445 7.2 120807.9 -1943.3  
 3446 9.1 120821.4 -1918.2  
 3447 9.8 120825.4 -1903.7  
 3448 10. 120847.9 -1957.9  
 3449 10. 120853.5 -1942.2  
 3450 9.6 120908.1 -1919.0  
 3451 9.9 120944.3 -1910.7  
 3452 10. 121012.2 -1949.8  
 3453 9.8 121012.5 -1941.1  
 3454 9.8 121036.4 -1923.2

3455 9.8 121047.3 -1912.2  
 3456 9.7 121057.9 -1921.4  
 3457 10. 121142.9 -1944.8  
 3458 8.9 121214.8 -1932.9  
 3459 9.0 121216.8 -1907.7  
 3460 9.5 121237.4 -1926.4  
 3461 9.6 121240.3 -1927.8  
 3462 9.5 121253.2 -1903.6  
 3463 9.1 121309.8 -1948.9  
 3464 8.5 121311.6 -1925.4

3465 9.1 121317.2 -1902.0  
 3466 8.5 121319.7 -1905.1  
 3467 9.5 121327.9 -1921.0  
 3468 10. 121341.5 -1946.8  
 3469 9.1 121344.3 -1954.3  
 3470 9.0 121352.3 -1936.0  
 3471 9.8 121424.4 -1910.2  
 3472 9.8 121454.4 -1916.6  
 3473 9.0 121519.2 -1935.5  
 3474 9.3 121542.5 -1914.5

3475 9.4 121550.1 -1903.9  
 3476 9.1 121555.7 -1927.5  
 3477 9.2 121559.2 -1955.0  
 3478 9.0 121605.1 -1906.2  
 3479 7.7 121607.4 -1916.9  
 3480 9.6 121614.1 -1911.7  
 3481 9.7 121641.8 -1908.9  
 3482 9.4 121650.1 -1908.4  
 3483 8.2 121710.7 -1916.0  
 3484 8.6 121714.8 -1959.7

3485 9.5 121716.1 -1928.8  
 3486 8.8 121722.5 -1904.3  
 3487 9.9 121751.6 -1939.0  
 3488 10. 121804.5 -1940.5  
 3489 9.4 121812.0 -1933.8  
 3490 9.7 121840.4 -1959.0  
 3491 9.7 121927.1 -1916.5  
 3492 9.0 121936.0 -1910.6  
 3493 8.6 121937.3 -1909.7  
 3494 8.5 121944.5 -1937.5

3495 10. 122025.0 -1945.5  
 3496 9.3 122042.9 -1918.2  
 3497 9.3 122053.4 -1954.4  
 3498 9.8 122129.0 -1928.6  
 3499 9.8 122228.2 -1959.5  
 3500 9.1 122231.8 -1909.8  
 3501 9.9 122234.4 -1949.9  
 3502 9.5 122258.9 -1934.7  
 3503 9.0 122308.4 -1942.5  
 3504 9.1 122319.2 -1956.0

3505 9.9 122326.1 -1915.9  
 3506 8.5 122329.9 -1931.0  
 3507 9.7 122332.5 -1913.3  
 3508 9.5 122357.3 -1904.6  
 3509 9.2 122450.0 -1941.3  
 3510 9.4 122516.2 -1905.2  
 3511 8.5 122518.2 -1903.0  
 3512 8.6 122601.7 -1942.1  
 3513 9.8 122629.6 -1946.3  
 3514 9.4 122639.7 -1924.2

3515 9.5 122643.7 -1909.4  
 3516 9.3 122657.7 -1925.8  
 3517 9.3 122733.1 -1903.5  
 3518 9.7 122755.3 -1956.7  
 3519 9.6 122802.6 -1958.4  
 3520 8.3 122816.6 -1939.7  
 3521 6.7 122823.1 -1943.7  
 3522 9.5 122841.2 -1913.8  
 3523 9.8 122842.9 -1918.7  
 3524 9.3 122856.9 -1915.6

3525 9.2 122858.3 -1943.3  
 3526 10. 122917.8 -1909.6  
 3527 9.2 122922.0 -1907.6  
 3528 8.5 122936.8 -1916.7  
 3529 9.2 123010.4 -1920.6  
 3530 9.0 123050.8 -1915.4  
 3531 9.8 123108.3 -1938.7  
 3532 9.0 123115.9 -1943.7  
 3533 9.4 123119.8 -1928.5  
 3534 9.4 123126.9 -1935.9

3535 10. 123208.4 -1911.4  
 3536 9.8 123229.8 -1950.4  
 3537 9.7 123238.4 -1912.7  
 3538 9.9 123315.2 -1935.4  
 3539 9.2 123327.7 -1918.9  
 3540 7.5 123354.5 -1949.1  
 3541 9.5 123358.8 -1940.6  
 3542 9.8 123412.8 -1936.3  
 3543 9.2 123418.0 -1909.9  
 3544 9.8 123430.4 -1913.6

3545 9.8 123434.3 -1905.8  
 3546 9.7 123441.0 -1958.5  
 3547 9.6 123445.6 -1958.5  
 3548 9.8 123459.7 -1944.6  
 3549 9.5 123544.1 -1939.6  
 3550 9.8 123611.5 -1958.4  
 3551 9.6 123645.6 -1953.4  
 3552 9.0 123654.2 -1910.4  
 3553 10. 123656.0 -1918.9  
 3554 10. 123656.2 -1931.0

3555 9.9 123702.7 -1946.0  
 3556 9.4 123706.6 -1901.3  
 3557 9.5 123712.3 -1910.8  
 3558 8.8 123716.6 -1907.0  
 3559 8.6 123735.7 -1927.0  
 3560 7.5 123755.4 -1920.7  
 3561 8.1 123821.1 -1916.8  
 3562 10. 123838.1 -1932.5  
 3563 9.5 123842.9 -1922.9  
 3564 9.4 123905.5 -1949.5

3565 9.8 123906.6 -1944.6  
 3566 10. 123916.1 -1914.5  
 3567 8.7 123917.9 -1908.6  
 3568 9.8 124003.5 -1946.1  
 3569 9.8 124025.0 -1928.7  
 3570 9.5 124047.0 -1920.4  
 3571 9.4 124052.5 -1928.8  
 3572 9.2 124053.5 -1930.1  
 3573 9.0 124102.6 -1927.7  
 3574 9.3 124115.6 -1925.4

3575 8.8 124117.6 -1910.9  
 3576 9.5 124127.5 -1926.8  
 3577 8.5 124131.9 -1949.1  
 3578 9.0 124132.7 -1930.4  
 3579 8.9 124151.4 -1906.3  
 3580 9.6 124212.0 -1926.8  
 3581 9.7 124218.2 -1914.9  
 3582 8.3 124231.9 -1934.6  
 3583 10. 124233.0 -1927.5  
 3584 10. 124244.0 -1902.8

3585 9.8 124308.2 -1917.5  
 3586 9.1 124321.9 -1916.7  
 3587 10. 124325.4 -1903.6  
 3588 9.0 124333.9 -1934.1  
 3589 9.2 124425.5 -1931.9  
 3590 10. 124442.8 -1944.9  
 3591 9.5 124454.8 -1937.2  
 3592 8.9 124529.3 -1925.4  
 3593 8.5 124549.4 -1905.1  
 3594 9.2 124625.3 -1926.5

3595 10. 124626.7 -1905.1  
 3596 9.4 124647.8 -1915.7  
 3597 6.7 124649.4 -1918.4  
 3598 9.8 124739.1 -1954.7  
 3599 9.6 124806.6 -1949.0  
 3600 9.4 124821.3 -1914.2  
 3601 7.7 124823.9 -1925.9  
 3602 9.4 124838.2 -1900.1  
 3603 9.0 124856.4 -1937.3  
 3604 9.7 124919.1 -1959.0

3605 10. 125027.5 -1923.2  
 3606 9.5 125029.9 -1918.4  
 3607 8.0 125034.5 -1935.5  
 3608 10. 125046.0 -1953.6  
 3609 9.7 125050.2 -1911.0  
 3610 9.8 125053.0 -1927.7  
 3611 9.2 125053.5 -1945.4  
 3612 7.5 125205.9 -1930.4  
 3613 9.0 125225.1 -1914.0  
 3614 9.5 125243.9 -1935.9

3615 9.2 125301.9 -1934.7  
 3616 9.7 125304.2 -1940.5  
 3617 7.2 125330.3 -1959.5  
 3618 9.4 125406.8 -1954.5  
 3619 9.0 125419.8 -1952.1  
 3620 9.3 125420.3 -1919.4  
 3621 9.8 125439.7 -1915.7  
 3622 9.9 125446.4 -1921.2  
 3623 9.5 125500.4 -1907.4  
 3624 8.5 125515.8 -1942.5

3625 9.3 125517.6 -1924.0  
 3626 9.8 125535.3 -1942.1  
 3627 9.5 125536.6 -1932.4  
 3628 9.1 125556.5 -1938.9  
 3629 6.1 125600.9 -1947.8  
 3630 9.8 125605.3 -1927.0  
 3631 9.7 125630.4 -1935.8  
 3632 9.8 125747.2 -1913.7  
 3633 9.1 125822.3 -1927.0  
 3634 8.5 125841.2 -1916.5

3635 8.5 125919.7 -1921.9  
 3636 9.7 125921.8 -1932.1  
 3637 9.5 125943.5 -1929.0  
 3638 9.1 130011.6 -1904.2  
 3639 8.8 130137.1 -1949.1  
 3640 9.5 130141.0 -1942.7  
 3641 7.5 130145.1 -1921.1  
 3642 9.4 130207.3 -1928.9  
 3643 9.3 130208.4 -1934.0  
 3644 10. 130316.2 -1904.9

3645 10. 130318.1 -1911.0  
 3646 8.7 130357.6 -1954.3  
 3647 9.5 130412.3 -1947.2  
 3648 8.7 130536.0 -1930.0  
 3649 9.2 130558.9 -1927.6  
 3650 9.5 130600.2 -1912.1  
 3651 6.2 130625.2 -1908.8  
 3652 9.2 130731.5 -1917.1  
 3653 6.1 130808.9 -1910.1  
 3654 8.8 130821.3 -1949.7

3655 9.5 130831.8 -1959.3  
 3656 9.4 130856.9 -1902.2  
 3657 9.4 130857.5 -1919.0  
 3658 9.1 130950.3 -1944.6  
 3659 10. 131015.9 -1911.7  
 3660 9.2 131020.4 -1951.8  
 3661 9.8 131021.2 -1920.4  
 3662 9.4 131041.2 -1945.9  
 3663 9.1 131106.1 -1904.1  
 3664 8.2 131117.0 -1914.4

3665 9.4 131158.9 -1951.6  
 3666 9.4 131203.7 -1955.1  
 3667 9.2 131204.9 -1948.1  
 3668 9.4 131210.2 -1954.8  
 3669 8.8 131238.1 -1915.4  
 3670 9.0 131245.2 -1936.4  
 3671 9.4 131407.3 -1954.2  
 3672 9.7 131420.1 -1924.9  
 3673 9.7 131435.1 -1956.8  
 3674 9.0 131448.1 -1922.7

3675 10. 131452.0 -1946.6  
 3676 9.7 131526.5 -1946.9  
 3677 9.8 131536.0 -1916.2  
 3678 9.3 131602.9 -1953.1  
 3679 9.4 131608.4 -1959.2  
 3680 8.5 131733.1 -1939.0  
 3681 8.9 131742.6 -1925.1  
 3682 8.2 131806.1 -1903.4  
 3683 9.5 131827.8 -1949.6  
 3684 9.8 131835.2 -1959.5

3685 9.6 131910.3 -1909.6  
 3686 9.1 131910.4 -1936.2  
 3687 9.4 131910.4 -1957.2  
 3688 9.0 131919.5 -1935.0  
 3689 9.8 131953.0 -1928.8  
 3690 9.8 132021.2 -1904.1  
 3691 8.0 132209.9 -1933.7  
 3692 10. 132303.8 -1925.5  
 3693 10. 132346.7 -1924.6  
 3694 9.8 132451.7 -1943.2

3695 9.4 132501.1 -1903.3  
 3696 7.5 132519.8 -1914.5  
 3697 9.0 132536.3 -1951.8  
 3698 9.6 132537.0 -1916.9  
 3699 10. 132552.9 -1922.8  
 3700 8.8 132630.6 -1942.7  
 3701 9.7 132651.2 -1926.4  
 3702 9.2 132716.6 -1941.4  
 3703 9.5 132744.6 -1938.0  
 3704 9.6 132745.4 -1905.1



|      |     |          |         |      |     |          |         |      |     |          |         |      |      |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|------|----------|---------|
| 3705 | 9.1 | 132801.6 | -1925.8 | 3795 | 10. | 135356.8 | -1951.5 | 3885 | 9.7 | 141852.2 | -1920.4 | 3975 | 9.5  | 144409.0 | -1946.6 |
| 3706 | 9.6 | 132846.6 | -1940.3 | 3796 | 9.8 | 135414.8 | -1911.5 | 3886 | 9.1 | 141906.4 | -1903.4 | 3976 | 9.7  | 144425.8 | -1916.7 |
| 3707 | 9.7 | 132852.3 | -1926.1 | 3797 | 9.6 | 135428.5 | -1929.6 | 3887 | 9.5 | 141952.5 | -1931.0 | 3977 | 9.8  | 144443.7 | -1927.3 |
| 3708 | 9.4 | 132936.3 | -1904.2 | 3798 | 9.6 | 135429.4 | -1900.8 | 3888 | 8.0 | 142011.1 | -1954.9 | 3978 | 7.5  | 144526.9 | -1922.4 |
| 3709 | 8.7 | 132956.1 | -1925.3 | 3799 | 7.3 | 135432.4 | -1906.4 | 3889 | 9.7 | 142016.1 | -1929.5 | 3979 | 7.3  | 144652.2 | -1925.2 |
| 3710 | 9.6 | 133018.0 | -1900.2 | 3800 | 10. | 135457.0 | -1956.6 | 3890 | 10. | 142016.9 | -1944.5 | 3980 | 9.7  | 144657.3 | -1900.3 |
| 3711 | 9.0 | 133025.5 | -1941.1 | 3801 | 9.8 | 135508.7 | -1954.7 | 3891 | 9.5 | 142107.8 | -1942.0 | 3981 | 9.0  | 144724.6 | -1933.2 |
| 3712 | 9.8 | 133050.9 | -1916.8 | 3802 | 9.9 | 135511.9 | -1922.6 | 3892 | 9.8 | 142121.8 | -1907.6 | 3982 | 8.0  | 144756.9 | -1948.1 |
| 3713 | 9.1 | 133104.3 | -1907.1 | 3803 | 9.8 | 135531.3 | -1914.5 | 3893 | 9.2 | 142127.3 | -1905.0 | 3983 | 9.3  | 144811.4 | -1909.9 |
| 3714 | 9.5 | 133110.2 | -1920.6 | 3804 | 8.8 | 135540.5 | -1914.3 | 3894 | 9.8 | 142209.8 | -1937.1 | 3984 | 8.7  | 144822.9 | -1957.4 |
| 3715 | 10. | 133225.6 | -1926.3 | 3805 | 9.4 | 135618.8 | -1919.3 | 3895 | 8.7 | 142210.2 | -1941.8 | 3985 | 9.3  | 144826.8 | -1919.4 |
| 3716 | 9.6 | 133322.7 | -1903.2 | 3806 | 9.7 | 135622.5 | -1929.2 | 3896 | 9.5 | 142220.2 | -1950.8 | 3986 | 9.1  | 144832.2 | -1903.5 |
| 3717 | 9.5 | 133329.4 | -1937.6 | 3807 | 9.6 | 135625.0 | -1958.1 | 3897 | 9.5 | 142225.1 | -1956.4 | 3987 | 8.6  | 144834.8 | -1953.6 |
| 3718 | 9.8 | 133344.2 | -1914.3 | 3808 | 9.7 | 135627.7 | -1905.6 | 3898 | 9.3 | 142233.9 | -1931.8 | 3988 | 9.0  | 144819.0 | -1932.6 |
| 3719 | 9.5 | 133413.8 | -1945.0 | 3809 | 9.0 | 135708.8 | -1950.5 | 3899 | 8.0 | 142305.0 | -1919.8 | 3989 | 9.4  | 144957.1 | -1919.0 |
| 3720 | 9.6 | 133417.2 | -1929.8 | 3810 | 9.5 | 135717.3 | -1946.1 | 3900 | 9.5 | 142319.4 | -1933.1 | 3990 | 9.1  | 145017.4 | -1953.8 |
| 3721 | 9.2 | 133437.2 | -1904.1 | 3811 | 9.3 | 135748.5 | -1925.8 | 3901 | 9.4 | 142405.4 | -1955.5 | 3991 | 8.5  | 145022.6 | -1908.2 |
| 3722 | 9.6 | 133453.8 | -1937.5 | 3812 | 9.3 | 135811.1 | -1917.4 | 3902 | 9.5 | 142516.1 | -1948.1 | 3992 | 9.5  | 145035.1 | -1959.7 |
| 3723 | 8.7 | 133507.1 | -1910.5 | 3813 | 8.3 | 135829.0 | -1922.4 | 3903 | 6.7 | 142641.0 | -1947.8 | 3993 | 9.3  | 145048.2 | -1900.4 |
| 3724 | 9.7 | 133542.5 | -1920.1 | 3814 | 9.6 | 135836.4 | -1959.7 | 3904 | 9.5 | 142702.0 | -1945.1 | 3994 | 9.0  | 145055.8 | -1921.1 |
| 3725 | 10. | 133607.8 | -1901.4 | 3815 | 9.8 | 135836.8 | -1946.3 | 3905 | 9.3 | 142723.9 | -1959.2 | 3995 | 10.  | 145057.3 | -1920.5 |
| 3726 | 9.5 | 133611.4 | -1928.5 | 3816 | 9.3 | 135838.6 | -1958.6 | 3906 | 9.5 | 142727.7 | -1924.1 | 3996 | 9.4  | 145104.8 | -1918.9 |
| 3727 | 9.5 | 133627.9 | -1922.7 | 3817 | 9.0 | 135842.8 | -1948.1 | 3907 | 9.1 | 142743.0 | -1908.2 | 3997 | 9.4  | 145126.6 | -1903.3 |
| 3728 | 9.3 | 133639.2 | -1937.4 | 3818 | 9.0 | 135843.5 | -1928.9 | 3908 | 9.3 | 142810.0 | -1914.3 | 3998 | 9.1  | 145131.1 | -1920.1 |
| 3729 | 9.3 | 133706.7 | -1911.1 | 3819 | 8.6 | 140000.1 | -1901.7 | 3909 | 8.7 | 142840.7 | -1920.7 | 3999 | 9.2  | 145139.8 | -1949.1 |
| 3730 | 9.1 | 133711.1 | -1900.0 | 3820 | 10. | 140000.4 | -1928.0 | 3910 | 9.6 | 142846.0 | -1939.2 | 4000 | 8.7  | 145147.1 | -1934.1 |
| 3731 | 9.7 | 133711.9 | -1947.9 | 3821 | 9.3 | 140016.2 | -1955.1 | 3911 | 9.4 | 142851.5 | -1904.4 | 4001 | 9.5  | 145255.0 | -1902.4 |
| 3732 | 9.4 | 133727.9 | -1940.0 | 3822 | 9.7 | 140034.8 | -1920.5 | 3912 | 9.9 | 142916.4 | -1954.9 | 4002 | 9.6  | 145330.7 | -1949.4 |
| 3733 | 9.5 | 133753.0 | -1935.0 | 3823 | 10. | 140041.7 | -1940.6 | 3913 | 9.5 | 142926.9 | -1902.0 | 4003 | 8.7  | 145346.1 | -1953.0 |
| 3734 | 9.5 | 133803.8 | -1956.8 | 3824 | 9.2 | 140058.6 | -1951.1 | 3914 | 9.4 | 142928.1 | -1922.5 | 4004 | 8.9  | 145353.7 | -1942.3 |
| 3735 | 9.8 | 133805.1 | -1950.4 | 3825 | 9.5 | 140101.8 | -1938.6 | 3915 | 9.5 | 142934.6 | -1927.6 | 4005 | 9.4  | 145402.2 | -1939.8 |
| 3736 | 9.6 | 133822.0 | -1901.4 | 3826 | 10. | 140110.6 | -1901.9 | 3916 | 8.7 | 142939.5 | -1947.5 | 4006 | 9.5  | 145413.6 | -1947.3 |
| 3737 | 9.3 | 133837.1 | -1956.4 | 3827 | 9.1 | 140112.4 | -1913.0 | 3917 | 9.5 | 143003.5 | -1930.3 | 4007 | 9.6  | 145415.7 | -1942.7 |
| 3738 | 9.0 | 133902.0 | -1956.2 | 3828 | 9.9 | 140156.6 | -1910.3 | 3918 | 9.2 | 143014.9 | -1901.8 | 4008 | 9.8  | 145428.5 | -1915.5 |
| 3739 | 8.5 | 133903.2 | -1912.2 | 3829 | 9.8 | 140218.8 | -1922.0 | 3919 | 9.8 | 143033.1 | -1934.2 | 4009 | 9.5  | 145505.2 | -1947.8 |
| 3740 | 8.2 | 133920.1 | -1933.4 | 3830 | 9.4 | 140328.3 | -1912.0 | 3920 | 8.2 | 143037.3 | -1918.2 | 4010 | 10.  | 145602.0 | -1904.8 |
| 3741 | 9.9 | 133925.8 | -1906.8 | 3831 | 9.4 | 140343.0 | -1952.8 | 3921 | 9.5 | 143044.0 | -1935.5 | 4011 | 9.8  | 145614.5 | -1903.9 |
| 3742 | 10. | 133928.9 | -1955.3 | 3832 | 9.7 | 140416.0 | -1946.0 | 3922 | 9.3 | 143100.6 | -1929.2 | 4012 | 9.6  | 145626.8 | -1928.3 |
| 3743 | 9.0 | 133938.1 | -1937.9 | 3833 | 9.7 | 140436.2 | -1948.0 | 3923 | 8.3 | 143108.4 | -1943.3 | 4013 | 9.6  | 145635.1 | -1945.3 |
| 3744 | 8.5 | 133945.2 | -1935.5 | 3834 | 9.3 | 140545.2 | -1911.0 | 3924 | 10. | 143113.4 | -1953.7 | 4014 | 9.7  | 145639.6 | -1905.1 |
| 3745 | 9.5 | 134004.2 | -1947.2 | 3835 | 9.6 | 140551.1 | -1912.5 | 3925 | 9.9 | 143117.6 | -1911.2 | 4015 | 10.  | 145641.6 | -1908.6 |
| 3746 | 9.6 | 134007.9 | -1909.7 | 3836 | 8.0 | 140558.1 | -1931.6 | 3926 | 8.9 | 143117.8 | -1914.0 | 4016 | 8.8  | 145703.9 | -1902.4 |
| 3747 | 9.0 | 134020.5 | -1947.1 | 3837 | 9.3 | 140632.6 | -1948.3 | 3927 | 9.2 | 143122.4 | -1933.1 | 4017 | 9.5  | 145708.9 | -1915.0 |
| 3748 | 9.5 | 134132.8 | -1908.9 | 3838 | 9.3 | 140658.4 | -1917.0 | 3928 | 10. | 143123.5 | -1949.7 | 4018 | 9.2  | 145721.2 | -1933.0 |
| 3749 | 9.1 | 134132.8 | -1946.0 | 3839 | 9.5 | 140709.0 | -1925.6 | 3929 | 9.0 | 143148.6 | -1901.1 | 4019 | 8.2  | 145732.6 | -1951.1 |
| 3750 | 9.7 | 134137.1 | -1930.9 | 3840 | 9.1 | 140735.4 | -1916.2 | 3930 | 9.4 | 143150.1 | -1923.3 | 4020 | 9.5  | 145747.5 | -1946.9 |
| 3751 | 9.5 | 134141.9 | -1900.5 | 3841 | 9.5 | 140836.0 | -1930.1 | 3931 | 9.4 | 143152.1 | -1922.2 | 4021 | 9.8  | 145756.1 | -1928.6 |
| 3752 | 8.9 | 134142.2 | -1918.1 | 3842 | 9.8 | 140940.8 | -1906.9 | 3932 | 9.5 | 143155.4 | -1935.1 | 4022 | 9.8  | 145814.6 | -1946.1 |
| 3753 | 9.5 | 134216.3 | -1905.6 | 3843 | 9.4 | 140941.6 | -1917.4 | 3933 | 10. | 143227.9 | -1938.0 | 4023 | 9.4  | 145824.3 | -1924.8 |
| 3754 | 6.8 | 134238.8 | -1910.3 | 3844 | 9.0 | 140941.7 | -1947.1 | 3934 | 9.1 | 143229.3 | -1906.2 | 4024 | 8.6  | 145830.9 | -1938.5 |
| 3755 | 9.0 | 134244.3 | -1950.7 | 3845 | 9.4 | 140941.9 | -1937.3 | 3935 | 10. | 143234.8 | -1919.1 | 4025 | 10.  | 145853.3 | -1945.4 |
| 3756 | 10. | 134336.0 | -1922.8 | 3846 | 7.5 | 140941.4 | -1917.0 | 3936 | 9.5 | 143236.3 | -1950.1 | 4026 | 9.1  | 145854.0 | -1915.4 |
| 3757 | 9.0 | 134402.5 | -1911.5 | 3847 | 10. | 140941.9 | -1905.0 | 3937 | 9.5 | 143242.1 | -1956.1 | 4027 | 8.5  | 145859.1 | -1929.6 |
| 3758 | 9.8 | 134435.2 | -1905.5 | 3848 | 9.8 | 140947.1 | -1958.0 | 3938 | 10. | 143246.6 | -1922.6 | 4028 | 9.8  | 145859.6 | -1933.8 |
| 3759 | 10. | 134437.9 | -1944.9 | 3849 | 8.8 | 141000.4 | -1930.0 | 3939 | 7.3 | 143316.0 | -1917.8 | 4029 | 9.4  | 145929.7 | -1929.7 |
| 3760 | 9.2 | 134454.0 | -1909.9 | 3850 | 10. | 141009.0 | -1913.5 | 3940 | 10. | 143322.4 | -1937.5 | 4030 | 9.1  | 150007.2 | -1917.4 |
| 3761 | 9.7 | 134503.8 | -1923.5 | 3851 | 9.5 | 141019.4 | -1956.1 | 3941 | 9.4 | 143324.3 | -1949.1 | 4031 | 9.5  | 150005.2 | -1923.7 |
| 3762 | 9.5 | 134524.4 | -1928.3 | 3852 | 9.6 | 141026.3 | -1948.6 | 3942 | 8.9 | 143332.9 | -1934.8 | 4032 | 9.5  | 150038.6 | -1938.9 |
| 3763 | 9.4 | 134528.3 | -1917.4 | 3853 | 9.5 | 141042.7 | -1947.0 | 3943 | 9.4 | 143437.4 | -1936.1 | 4033 | 9.0  | 150043.9 | -1950.5 |
| 3764 | 9.4 | 134553.8 | -1956.8 | 3854 | 9.6 | 141048.7 | -1920.9 | 3944 | 9.0 | 143450.3 | -1916.9 | 4034 | 9.5  | 150056.8 | -1912.9 |
| 3765 | 9.8 | 134620.2 | -1906.8 | 3855 | 9.7 | 141059.8 | -1928.1 | 3945 | 9.9 | 143453.3 | -1909.3 | 4035 | 10.  | 150118.3 | -1952.6 |
| 3766 | 9.6 | 134630.0 | -1916.8 | 3856 | 9.8 | 141144.2 | -1943.4 | 3946 | 9.5 | 143522.6 | -1939.0 | 4036 | 7.3  | 150131.8 | -1957.8 |
| 3767 | 9.5 | 134631.7 | -1926.6 | 3857 | 9.3 | 141206.2 | -1946.3 | 3947 | 9.4 | 143524.2 | -1910.4 | 4037 | 9.9  | 150137.9 | -1952.5 |
| 3768 | 9.8 | 134718.4 | -1927.2 | 3858 | 9.7 | 141232.6 | -1910.5 | 3948 | 9.8 | 143546.9 | -1917.0 | 4038 | 9.4  | 150149.7 | -1919.4 |
| 3769 | 8.9 | 134719.1 | -1937.5 | 3859 | 8.5 | 141326.1 | -1901.4 | 3949 | 9.3 | 143548.3 | -1950.2 | 4039 | 9.5  | 150200.4 | -1924.3 |
| 3770 | 9.5 | 134719.7 | -1920.2 | 3860 | 9.9 | 141327.2 | -1912.9 | 3950 | 8.5 | 143630.7 | -1952.1 | 4040 | 9.2  | 150205.5 | -1938.1 |
| 3771 | 8.5 | 134726.4 | -1924.4 | 3861 | 9.3 | 141331.1 | -1906.5 | 3951 | 9.8 | 143647.8 | -1957.6 | 4041 | 30.0 | 150228.3 | -1927.8 |
| 3772 | 9.0 | 134753.8 | -1932.2 | 3862 | 9.8 | 141337.6 | -1907.4 | 3952 | 10. | 143706.3 | -1905.3 | 4042 | 10.  | 150236.0 | -1928.9 |
| 3773 | 9.5 | 134800.6 | -1951.1 | 3863 | 9.1 | 141406.5 | -1949.7 | 3953 | 9.2 | 143714.8 | -1941.9 | 4043 | 10.  | 150256.7 | -1937.6 |
| 3774 | 9.1 | 134826.6 | -1908.1 | 3864 | 9.2 | 141422.1 | -1949.0 | 3954 | 9.5 | 143755.9 | -1912.2 | 4044 | 9.5  | 150254.8 | -1918.7 |
| 3775 | 10. | 134836.3 | -1941.1 | 3865 | 9.8 | 141454.6 | -1959.9 | 3955 | 10. | 143757.2 | -1951.2 | 4045 | 9.8  | 150300.5 | -1917.9 |
| 3776 | 9.9 | 134836.9 | -1946.3 | 3866 | 8.7 | 141455.2 | -1932.7 | 3956 | 9.3 | 143822.3 | -1901.4 | 4046 | 9.4  | 150351.8 | -1946.2 |
| 3777 | 9.6 | 134849.1 | -1906.3 | 3867 | 9.5 | 141521.2 | -1925.1 | 3957 | 9.2 | 143831.6 | -1903.  |      |      |          |         |



-19 4065 15h09m

4065 9.8 150912.2 -1913.4  
4066 10. 150935.1 -1945.8  
4067 9.2 150936.1 -1951.4  
4068 9.5 150954.6 -1930.6  
4069 9.5 151012.3 -1914.9  
4070 9.5 151029.1 -1945.5  
4071 9.2 151042.0 -1907.9  
4072 9.1 151043.3 -1935.9  
4073 9.0 151045.1 -1918.5  
4074 9.7 151049.2 -1919.3  
  
4075 9.0 151108.3 -1925.6  
4076 7.3 151134.6 -1901.1  
4077 10. 151134.9 -1917.1  
4078 9.8 151159.0 -1910.6  
4079 9.8 151207.2 -1918.9  
4080 9.7 151208.1 -1959.6  
4081 10. 151221.0 -1907.4  
4082 9.3 151246.1 -1955.7  
4083 9.5 151251.5 -1958.3  
4084 30.0 151304.0 -1951.6  
  
4085 9.8 151305.3 -1922.0  
4086 9.8 151337.1 -1943.0  
4087 9.7 151349.8 -1915.8  
4088 9.2 151357.2 -1932.4  
4089 9.5 151423.0 -1956.5  
4090 9.5 151425.6 -1929.5  
4091 8.3 151453.2 -1916.0  
4092 9.8 151500.5 -1941.1  
4093 9.2 151502.7 -1912.5  
4094 9.3 151517.0 -1956.5  
  
4095 8.9 151523.2 -1913.8  
4096 9.4 151532.8 -1919.3  
4097 9.4 151600.5 -1912.9  
4098 9.5 151604.9 -1946.2  
4099 8.2 151610.7 -1926.6  
4100 9.5 151657.8 -1916.9  
4101 9.3 151748.0 -1959.6  
4102 10. 151749.6 -1923.5  
4103 10. 151755.9 -1928.7  
4104 8.7 151814.4 -1959.0  
  
4105 9.7 151826.5 -1910.5  
4106 6.5 151831.1 -1929.6  
4107 10. 151833.3 -1916.1  
4108 9.0 151926.3 -1907.6  
4109 9.5 151929.8 -1940.5  
4110 9.8 151935.1 -1919.1  
4111 9.2 151938.0 -1923.3  
4112 9.3 152022.5 -1922.9  
4113 9.5 152024.9 -1938.7  
4114 8.6 152034.8 -1942.1  
  
4115 9.7 152035.7 -1950.9  
4116 10. 152036.0 -1956.8  
4117 9.5 152052.7 -1903.3  
4118 9.2 152132.8 -1933.2  
4119 9.2 152140.0 -1925.5  
4120 9.2 152141.3 -1928.1  
4121 10. 152212.9 -1925.6  
4122 10. 152215.2 -1913.0  
4123 9.8 152224.2 -1914.4  
4124 9.9 152234.8 -1941.9  
  
4125 9.5 152241.7 -1946.4  
4126 9.5 152257.2 -1943.5  
4127 9.1 152310.9 -1933.0  
4128 6.7 152322.7 -1940.0  
4129 9.0 152328.5 -1911.5  
4130 9.0 152346.4 -1923.8  
4131 10. 152357.2 -1915.9  
4132 9.3 152404.7 -1941.6  
4133 9.8 152406.7 -1943.7  
4134 8.7 152414.9 -1930.5  
  
4135 5.5 152417.3 -1910.5  
4136 10. 152431.1 -1908.1  
4137 9.8 152440.4 -1928.5  
4138 9.1 152449.5 -1924.1  
4139 9.8 152450.2 -1915.2  
4140 9.2 152505.2 -1945.4  
4141 9.0 152510.0 -1934.0  
4142 10. 152519.3 -1932.8  
4143 9.3 152533.1 -1908.4  
4144 9.7 152538.9 -1924.8  
  
4145 9.1 152540.6 -1905.2  
4146 9.6 152552.1 -1950.8  
4147 9.6 152619.5 -1909.3  
4148 9.3 152643.0 -1932.8  
4149 10. 152644.9 -1953.8  
4150 9.8 152651.0 -1933.9  
4151 9.2 152657.5 -1903.3  
4152 9.4 152715.6 -1908.6  
4153 9.0 152746.4 -1957.3  
4154 9.8 152751.6 -1915.6

4155 10. 152752.4 -1901.1  
4156 9.4 152756.8 -1953.5  
4157 9.3 152815.6 -1919.9  
4158 9.4 152828.3 -1951.8  
4159 9.8 152839.4 -1941.2  
4160 9.7 152914.6 -1911.8  
4161 9.4 152926.6 -1930.5  
4162 9.8 152939.5 -1915.6  
4163 9.9 152941.2 -1932.2  
4164 8.5 152956.3 -1952.2  
  
4165 7.0 153005.9 -1925.6  
4166 9.0 153009.1 -1917.8  
4167 8.3 153019.8 -1941.4  
4168 9.8 153021.4 -1938.9  
4169 7.9 153039.2 -1914.8  
4170 9.5 153045.1 -1952.0  
4171 9.4 153049.4 -1914.3  
4172 9.8 153050.5 -1920.0  
4173 9.8 153103.4 -1943.6  
4174 9.1 153110.3 -1943.4  
  
4175 8.9 153120.1 -1939.5  
4176 8.6 153128.6 -1914.2  
4177 7.6 153134.1 -1917.7  
4178 9.5 153138.0 -1904.4  
4179 9.6 153158.4 -1928.6  
4180 9.8 153206.3 -1929.3  
4181 9.3 153212.6 -1928.6  
4182 9.2 153227.9 -1924.4  
4183 9.3 153238.3 -1956.7  
4184 9.7 153241.6 -1958.3  
  
4185 9.3 153252.8 -1914.4  
4186 9.3 153305.7 -1946.3  
4187 9.3 153324.1 -1912.1  
4188 5.3 153336.1 -1912.3  
4189 9.9 153354.9 -1930.4  
4190 8.7 153400.4 -1901.0  
4191 9.0 153402.9 -1923.9  
4192 9.5 153407.3 -1905.5  
4193 10. 153414.8 -1930.5  
4194 9.0 153428.6 -1946.6  
  
4195 10. 153436.8 -1924.7  
4196 9.7 153442.8 -1913.1  
4197 9.5 153444.9 -1902.2  
4198 9.3 153448.5 -1952.8  
4199 9.8 153457.7 -1950.4  
4200 9.6 153527.3 -1951.5  
4201 9.6 153534.0 -1951.2  
4202 8.8 153551.6 -1919.8  
4203 8.8 153559.4 -1914.9  
4204 9.5 153620.0 -1944.4  
  
4205 9.3 153624.2 -1935.5  
4206 9.5 153624.2 -1911.4  
4207 9.4 153625.1 -1940.0  
4208 9.7 153721.0 -1915.3  
4209 9.8 153724.5 -1954.2  
4210 9.5 153731.5 -1922.5  
4211 9.5 153743.0 -1905.6  
4212 9.3 153744.2 -1956.5  
4213 8.9 153813.0 -1910.1  
4214 9.4 153824.6 -1942.5  
  
4215 9.4 153900.1 -1929.1  
4216 9.8 153911.9 -1949.5  
4217 10. 153927.0 -1902.3  
4218 8.8 153927.9 -1915.1  
4219 9.2 153932.2 -1924.2  
4220 9.8 153956.6 -1934.2  
4221 8.5 153958.1 -1956.7  
4222 9.5 154002.2 -1919.8  
4223 9.5 154012.7 -1926.4  
4224 9.2 154016.5 -1942.3  
  
4225 9.6 154019.9 -1945.9  
4226 8.7 154038.7 -1922.1  
4227 8.0 154058.4 -1950.1  
4228 10. 154101.6 -1904.2  
4229 9.8 154105.2 -1910.2  
4230 9.3 154109.5 -1958.1  
4231 9.7 154117.2 -1927.1  
4232 9.3 154143.6 -1929.4  
4233 9.5 154143.7 -1902.2  
4234 9.3 154206.5 -1928.1  
  
4235 9.8 154211.0 -1917.3  
4236 9.4 154212.4 -1937.2  
4237 9.8 154221.5 -1939.2  
4238 10. 154239.7 -1918.7  
4239 8.9 154241.5 -1933.6  
4240 9.8 154303.6 -1918.9  
4241 9.4 154307.5 -1914.0  
4242 9.8 154332.5 -1925.1  
4243 9.9 154352.3 -1952.4  
4244 9.5 154357.1 -1930.7

4245 9.7 154403.8 -1917.2  
4246 9.6 154410.6 -1901.9  
4247 9.8 154416.0 -1929.8  
4248 9.1 154423.1 -1951.9  
4249 5.4 154455.2 -1943.7  
4250 9.6 154457.5 -1959.1  
4251 10. 154514.6 -1938.7  
4252 9.8 154520.2 -1959.2  
4253 8.7 154526.9 -1953.0  
4254 10. 154542.5 -1942.1  
  
4255 10. 154548.4 -1956.8  
4256 9.8 154550.2 -1928.7  
4257 10. 154550.5 -1903.4  
4258 9.7 154601.0 -1903.0  
4259 9.7 154606.2 -1956.1  
4260 8.9 154635.9 -1949.0  
4261 10. 154636.0 -1938.4  
4262 9.5 154651.9 -1912.3  
4263 9.7 154655.9 -1945.4  
4264 9.4 154712.2 -1911.2  
  
4265 10. 154732.1 -1935.5  
4266 9.7 154735.9 -1904.4  
4267 9.8 154740.0 -1934.7  
4268 9.8 154904.9 -1901.1  
4269 9.3 154912.4 -1932.0  
4270 9.8 154920.9 -1941.0  
4271 9.9 154938.0 -1926.5  
4272 9.8 154953.9 -1959.8  
4273 8.3 155021.8 -1907.3  
4274 8.7 155041.9 -1930.9  
  
4275 8.6 155043.5 -1931.1  
4276 9.0 155124.1 -1959.8  
4277 9.3 155136.2 -1941.8  
4278 9.7 155137.0 -1913.2  
4279 9.5 155127.3 -1904.7  
4280 9.8 155152.2 -1933.8  
4281 9.9 155153.8 -1944.5  
4282 9.3 155208.5 -1927.9  
4283 9.7 155211.6 -1953.1  
4284 9.7 155212.6 -1931.1  
  
4285 9.7 155231.8 -1928.3  
4286 9.1 155254.8 -1927.4  
4287 9.5 155312.3 -1945.4  
4288 9.5 155332.3 -1943.3  
4289 8.8 155339.9 -1922.3  
4290 9.5 155347.2 -1906.7  
4291 8.2 155350.7 -1902.4  
4292 9.5 155413.8 -1903.9  
4293 9.8 155416.4 -1921.1  
4294 8.9 155436.3 -1935.4  
  
4295 7.5 155441.3 -1926.1  
4296 8.0 155518.6 -1910.2  
4297 9.0 155523.2 -1906.6  
4298 8.0 155535.3 -1921.4  
4299 9.3 155535.7 -1914.0  
4300 9.5 155558.7 -1900.1  
4301 10. 155602.2 -1957.1  
4302 9.0 155624.3 -1914.9  
4303 8.5 155625.1 -1954.5  
4304 9.9 155625.3 -1942.4  
  
4305 9.0 155629.7 -1901.7  
4306 9.5 155638.2 -1940.7  
4307 2.0 155659.9 -1924.3  
4308 8.0 155702.6 -1923.9  
4309 8.0 155719.5 -1916.8  
4310 9.8 155732.6 -1915.1  
4311 8.9 155750.2 -1923.4  
4312 9.6 155759.6 -1915.1  
4313 9.4 155807.4 -1950.0  
4314 9.8 155816.3 -1922.7  
  
4315 9.4 155838.5 -1903.1  
4316 8.6 155922.6 -1925.7  
4317 9.4 160001.9 -1916.6  
4318 9.5 160007.7 -1958.7  
4319 9.8 160022.3 -1957.0  
4320 9.6 160040.5 -1956.1  
4321 9.8 160044.9 -1958.9  
4322 8.2 160055.9 -1904.2  
4323 9.6 160057.6 -1918.9  
4324 9.5 160150.1 -1932.5  
  
4325 9.4 160151.4 -1908.0  
4326 8.9 160215.9 -1900.7  
4327 8.7 160226.0 -1937.7  
4328 10. 160244.0 -1941.8  
4329 9.7 160310.3 -1944.5  
4330 30.0 160318.2 -1945.3  
4331 9.8 160328.9 -1948.1  
4332 7.3 160322.6 -1903.7  
4333 4.5 160333.9 -1904.4  
4334 8.4 160355.9 -1912.0

4335 9.4 160401.3 -1907.5  
4336 9.8 160413.3 -1959.5  
4337 7.5 160417.8 -1907.2  
4338 9.6 160450.4 -1959.7  
4339 9.5 160527.8 -1957.6  
4340 9.5 160545.6 -1913.1  
4341 9.1 160547.7 -1917.2  
4342 8.6 160611.9 -1952.0  
4343 9.4 160632.6 -1914.5  
4344 9.4 160632.9 -1940.6  
  
4345 9.2 160633.6 -1946.0  
4346 9.1 160659.3 -1952.0  
4347 9.4 160709.3 -1926.9  
4348 7.5 160721.4 -1942.2  
4349 10. 160822.6 -1932.6  
4350 6.5 160829.9 -1944.1  
4351 9.5 160951.6 -1943.9  
4352 9.5 160951.7 -1905.4  
4353 9.0 161009.4 -1925.5  
4354 9.5 161019.9 -1927.4  
  
4355 9.2 161022.0 -1919.5  
4356 9.4 161022.7 -1907.6  
4357 6.0 161038.3 -1951.5  
4358 8.4 161125.6 -1941.2  
4359 7.7 161135.3 -1941.9  
4360 9.5 161142.0 -1909.9  
4361 7.3 161200.8 -1945.7  
4362 8.6 161240.9 -1925.0  
4363 9.6 161330.2 -1945.5  
4364 9.5 161334.2 -1901.0  
  
4365 5.0 161537.3 -1941.6  
4366 9.0 161632.7 -1909.1  
4367 9.1 161653.6 -1959.1  
4368 8.5 161658.3 -1930.1  
4369 9.5 161753.6 -1918.6  
4370 9.8 161754.1 -1952.2  
4371 9.4 161756.4 -1912.1  
4372 9.8 161833.3 -1925.1  
4373 9.7 161924.1 -1906.1  
4374 9.8 162247.1 -1941.4  
  
4375 8.8 162403.0 -1945.8  
4376 8.8 162410.3 -1916.4  
4377 9.2 162425.2 -1926.0  
4378 9.6 162439.8 -1923.2  
4379 9.1 162451.7 -1956.0  
4380 9.4 162610.7 -1921.5  
4381 8.4 162617.0 -1928.1  
4382 9.0 162627.5 -1949.5  
4383 9.5 162650.0 -1914.8  
4384 9.1 162650.7 -1921.6  
  
4385 9.1 162658.7 -1952.7  
4386 9.7 162704.4 -1901.6  
4387 8.7 162705.4 -1957.0  
4388 9.3 162719.5 -1945.1  
4389 9.6 162742.4 -1957.9  
4390 8.8 162802.9 -1951.1  
4391 9.2 162808.2 -1959.2  
4392 8.7 162809.7 -1917.9  
4393 9.5 162831.4 -1903.8  
4394 9.5 162852.9 -1928.7  
  
4395 9.5 162855.5 -1915.8  
4396 9.6 162841.5 -1918.5  
4397 9.5 162900.9 -1931.4  
4398 9.8 162907.8 -1957.9  
4399 9.4 162922.9 -1952.8  
4400 9.2 162959.7 -1914.1  
4401 9.3 163007.8 -1926.6  
4402 9.3 163027.3 -1959.0  
4403 8.8 163159.0 -1934.3  
4404 8.9 163204.2 -1910.3  
  
4405 9.3 163219.3 -1909.2  
4406 6.0 163322.4 -1938.5  
4407 8.5 163345.0 -1946.8  
4408 8.5 163345.5 -1954.2  
4409 8.3 163352.7 -1952.8  
4410 9.3 163418.8 -1938.5  
4411 9.6 163501.9 -1957.0  
4412 9.5 163524.8 -1942.6  
4413 9.6 163545.0 -1925.4  
4414 9.6 163548.4 -1947.8  
  
4415 8.3 163553.8 -1934.4  
4416 9.3 163628.8 -1935.0  
4417 9.2 163658.2 -1910.7  
4418 9.8 163727.8 -1901.2  
4419 9.4 163729.2 -1929.4  
4420 9.4 163805.1 -1927.6  
4421 9.5 163809.3 -1943.7  
4422 9.8 163816.7 -1931.6  
4423 9.1 163817.4 -1944.9  
4424 10. 163817.8 -1939.3

-19 4424 16h38m



4425 7.6 163824.5 -1949.7  
 4426 9.3 163908.2 -1952.6  
 4427 8.5 163915.9 -1936.5  
 4428 9.7 163916.4 -1931.6  
 4429 9.0 163936.7 -1906.6  
 4430 9.5 163945.0 -1918.6  
 4431 8.0 164004.2 -1901.2  
 4432 8.5 164014.6 -1948.0  
 4433 9.5 164024.7 -1939.3  
 4434 8.7 164030.5 -1920.5  
 4435 8.8 164032.7 -1912.0  
 4436 8.3 164046.3 -1900.1  
 4437 9.3 164103.7 -1956.3  
 4438 9.5 164114.2 -1936.9  
 4439 9.4 164114.8 -1911.4  
 4440 9.4 164155.4 -1958.5  
 4441 9.5 164203.5 -1955.1  
 4442 9.5 164208.3 -1923.2  
 4443 8.3 164224.5 -1934.8  
 4444 9.4 164231.9 -1914.3  
 4445 9.2 164241.8 -1931.5  
 4446 9.8 164301.4 -1920.9  
 4447 9.5 164328.5 -1959.0  
 4448 9.4 164331.7 -1910.9  
 4449 9.8 164341.5 -1919.5  
 4450 9.8 164342.7 -1919.1  
 4451 7.8 164351.8 -1905.9  
 4452 9.4 164403.2 -1906.4  
 4453 9.0 164403.9 -1927.4  
 4454 10. 164418.8 -1944.9  
 4455 8.6 164424.4 -1956.4  
 4456 9.4 164424.9 -1924.4  
 4457 9.5 164445.6 -1914.6  
 4458 9.4 164448.7 -1915.8  
 4459 9.0 164513.3 -1910.3  
 4460 8.3 164525.7 -1903.6  
 4461 9.0 164547.7 -1907.2  
 4462 9.7 164555.8 -1902.7  
 4463 9.7 164631.1 -1941.0  
 4464 8.7 164648.5 -1912.2  
 4465 8.7 164653.2 -1916.7  
 4466 8.7 164707.2 -1951.5  
 4467 9.5 164712.6 -1908.9  
 4468 9.5 164714.3 -1929.0  
 4469 9.6 164757.1 -1916.2  
 4470 9.3 164810.8 -1946.3  
 4471 6.9 164833.2 -1918.2  
 4472 9.1 164842.6 -1920.8  
 4473 9.1 164855.9 -1939.5  
 4474 8.3 164922.2 -1933.5  
 4475 9.6 164943.7 -1901.4  
 4476 9.4 164945.5 -1927.0  
 4477 9.5 164956.7 -1913.3  
 4478 9.7 164958.9 -1915.5  
 4479 9.8 165002.8 -1946.8  
 4480 8.8 165007.1 -1910.4  
 4481 9.1 165012.8 -1954.3  
 4482 9.3 165022.5 -1922.9  
 4483 9.9 165039.6 -1907.5  
 4484 9.1 165046.0 -1911.8  
 4485 9.5 165046.0 -1915.6  
 4486 9.4 165051.7 -1945.6  
 4487 9.8 165053.2 -1953.7  
 4488 9.8 165054.1 -1959.0  
 4489 9.5 165129.1 -1927.6  
 4490 9.5 165139.0 -1940.5  
 4491 9.4 165145.0 -1913.4  
 4492 9.4 165243.8 -1957.6  
 4493 9.4 165257.8 -1934.6  
 4494 9.4 165312.9 -1921.4  
 4495 9.8 165338.0 -1901.7  
 4496 9.5 165411.1 -1910.3  
 4497 9.8 165441.3 -1934.3  
 4498 8.2 165445.0 -1955.9  
 4499 8.0 165448.2 -1916.4  
 4500 8.4 165454.4 -1952.5  
 4501 9.7 165500.0 -1914.2  
 4502 8.9 165504.2 -1914.7  
 4503 9.7 165520.5 -1916.6  
 4504 9.2 165526.1 -1952.7  
 4505 9.5 165527.9 -1901.3  
 4506 9.7 165529.2 -1918.4  
 4507 9.3 165536.1 -1901.5  
 4508 9.7 165548.5 -1915.1  
 4509 9.3 165551.8 -1915.3  
 4510 10. 165555.3 -1915.3  
 4511 9.4 165601.7 -1928.0  
 4512 9.4 165627.1 -1915.4  
 4513 9.7 165629.7 -1909.2  
 4514 9.7 165640.3 -1948.7

4515 8.5 165642.0 -1959.3  
 4516 9.5 165645.1 -1934.0  
 4517 9.2 165704.4 -1909.9  
 4518 9.5 165715.0 -1913.8  
 4519 9.0 165730.7 -1925.5  
 4520 9.2 165800.8 -1930.8  
 4521 9.2 165822.8 -1918.0  
 4522 8.5 165823.0 -1944.5  
 4523 9.7 165823.6 -1916.5  
 4524 8.8 165835.8 -1919.0  
 4525 9.2 165852.8 -1902.3  
 4526 9.2 165855.0 -1903.8  
 4527 8.0 165856.0 -1905.6  
 4528 8.3 165913.1 -1900.1  
 4529 9.5 165933.7 -1954.5  
 4530 9.8 165934.1 -1909.5  
 4531 9.4 165942.7 -1934.5  
 4532 9.5 165943.8 -1947.2  
 4533 9.0 165945.0 -1935.8  
 4534 9.5 165947.0 -1930.0  
 4535 9.8 165951.4 -1922.6  
 4536 9.2 165954.0 -1912.5  
 4537 9.7 170002.8 -1910.3  
 4538 9.1 170021.3 -1929.0  
 4539 9.7 170036.3 -1902.9  
 4540 8.7 170036.5 -1929.1  
 4541 9.8 170053.6 -1950.3  
 4542 9.8 170100.0 -1902.5  
 4543 9.4 170103.3 -1923.4  
 4544 9.2 170105.1 -1940.2  
 4545 9.4 170114.8 -1927.6  
 4546 9.2 170140.7 -1940.0  
 4547 7.0 170143.1 -1914.8  
 4548 6.9 170150.6 -1951.4  
 4549 8.8 170152.7 -1919.4  
 4550 9.4 170217.3 -1923.9  
 4551 9.8 170218.4 -1922.8  
 4552 9.2 170219.6 -1957.9  
 4553 9.5 170221.1 -1946.9  
 4554 9.5 170236.3 -1926.0  
 4555 9.4 170236.5 -1920.7  
 4556 9.7 170310.4 -1903.2  
 4557 9.8 170311.3 -1927.9  
 4558 9.1 170355.2 -1936.3  
 4559 9.8 170357.1 -1951.8  
 4560 9.0 170454.1 -1944.8  
 4561 9.4 170506.6 -1913.0  
 4562 9.3 170509.5 -1922.0  
 4563 9.5 170523.0 -1953.7  
 4564 9.8 170526.7 -1932.1  
 4565 8.8 170537.4 -1905.1  
 4566 9.4 170554.8 -1909.8  
 4567 9.8 170607.4 -1918.5  
 4568 9.3 170607.4 -1907.8  
 4569 8.5 170619.3 -1941.4  
 4570 9.0 170628.8 -1922.3  
 4571 9.3 170629.6 -1940.8  
 4572 9.5 170635.9 -1945.0  
 4573 9.5 170645.9 -1913.1  
 4574 9.4 170652.0 -1903.2  
 4575 9.8 170702.8 -1952.4  
 4576 9.8 170719.0 -1934.6  
 4577 9.0 170749.3 -1914.2  
 4578 9.2 170756.5 -1910.1  
 4579 9.2 170803.1 -1945.1  
 4580 9.2 170907.0 -1956.3  
 4581 9.8 170916.9 -1914.4  
 4582 9.7 170918.8 -1905.6  
 4583 9.5 170919.2 -1929.9  
 4584 9.2 170929.0 -1947.8  
 4585 9.5 170946.6 -1941.6  
 4586 9.8 170948.6 -1935.0  
 4587 9.4 170955.1 -1938.6  
 4588 9.5 170955.3 -1904.0  
 4589 9.4 170958.0 -1949.4  
 4590 9.5 171008.4 -1910.0  
 4591 8.8 171018.6 -1905.3  
 4592 9.3 171019.1 -1955.6  
 4593 9.5 171021.7 -1945.6  
 4594 9.6 171046.1 -1933.5  
 4595 9.0 171046.6 -1933.9  
 4596 9.1 171058.2 -1919.0  
 4597 10. 171106.1 -1913.0  
 4598 9.6 171106.8 -1918.5  
 4599 9.1 171118.1 -1931.3  
 4600 8.0 171122.7 -1933.1  
 4601 9.3 171126.0 -1939.0  
 4602 7.9 171126.0 -1949.3  
 4603 9.4 171150.3 -1942.7  
 4604 9.5 171158.7 -1959.1

4605 6.5 171203.8 -1910.4  
 4606 9.5 171215.4 -1953.1  
 4607 9.6 171238.2 -1927.1  
 4608 9.5 171303.0 -1931.8  
 4609 9.6 171307.0 -1919.7  
 4610 9.6 171309.9 -1920.3  
 4611 9.0 171331.9 -1955.7  
 4612 9.2 171336.6 -1922.5  
 4613 9.5 171343.5 -1925.0  
 4614 9.5 171359.7 -1955.1  
 4615 7.9 171401.1 -1928.0  
 4616 9.7 171420.7 -1957.6  
 4617 7.8 171444.2 -1918.1  
 4618 9.5 171550.0 -1903.8  
 4619 9.8 171605.6 -1949.1  
 4620 9.5 171625.0 -1923.0  
 4621 9.2 171627.8 -1956.9  
 4622 8.5 171636.1 -1948.3  
 4623 9.4 171648.7 -1911.3  
 4624 8.0 171656.2 -1926.1  
 4625 9.6 171714.0 -1942.9  
 4626 9.1 171716.9 -1905.7  
 4627 8.6 171717.3 -1903.6  
 4628 9.4 171718.2 -195.0  
 4629 9.2 171721.4 -195.8  
 4630 9.7 171732.8 -1934.8  
 4631 9.7 171752.1 -1943.3  
 4632 8.7 171752.4 -1922.7  
 4633 9.3 171805.3 -1914.7  
 4634 9.5 171809.3 -1906.3  
 4635 9.1 171812.9 -1951.6  
 4636 9.5 171834.7 -1924.7  
 4637 9.8 171910.6 -1908.5  
 4638 8.5 171911.4 -1905.9  
 4639 9.3 171919.8 -1909.4  
 4640 9.2 171934.0 -1950.3  
 4641 9.8 171955.0 -1916.1  
 4642 9.7 172009.3 -1949.1  
 4643 9.8 172030.9 -1943.1  
 4644 7.8 172110.9 -1921.1  
 4645 8.0 172205.7 -1926.2  
 4646 9.5 172206.0 -1932.4  
 4647 9.2 172233.8 -1942.9  
 4648 9.8 172238.8 -1900.0  
 4649 9.5 172325.5 -1924.8  
 4650 9.5 172357.8 -1913.1  
 4651 9.7 172440.9 -1933.8  
 4652 8.6 172442.1 -1915.1  
 4653 9.5 172449.5 -1921.9  
 4654 9.3 172451.4 -1953.0  
 4655 9.0 172503.7 -1902.3  
 4656 8.9 172510.0 -1948.5  
 4657 9.5 172519.2 -1923.9  
 4658 9.6 172534.5 -1927.8  
 4659 8.0 172536.9 -1904.0  
 4660 9.0 172554.9 -1907.3  
 4661 9.8 172655.5 -1916.5  
 4662 8.0 172656.5 -1947.5  
 4663 9.2 172746.7 -1926.0  
 4664 9.5 172747.3 -1914.9  
 4665 8.1 172801.7 -1958.3  
 4666 9.4 172805.7 -1949.3  
 4667 9.5 172808.9 -1955.4  
 4668 9.5 172813.3 -1921.3  
 4669 9.4 172824.0 -1944.0  
 4670 9.5 172825.9 -1925.2  
 4671 9.5 172826.8 -1914.8  
 4672 9.1 172856.2 -1957.9  
 4673 9.2 172928.2 -1918.0  
 4674 8.9 172933.9 -1952.7  
 4675 9.7 173000.2 -1921.1  
 4676 9.6 173005.7 -1945.4  
 4677 8.3 173017.7 -1926.9  
 4678 10. 173038.6 -1910.2  
 4679 9.5 173054.9 -1903.8  
 4680 8.3 173222.1 -1953.7  
 4681 9.5 173224.5 -1958.6  
 4682 9.0 173234.9 -1927.3  
 4683 8.0 173244.9 -1922.5  
 4684 9.8 173305.3 -1918.0  
 4685 9.4 173309.3 -1957.2  
 4686 8.9 173314.8 -1910.6  
 4687 9.2 173327.7 -1914.1  
 4688 8.5 173350.2 -1919.4  
 4689 9.6 173356.2 -1905.4  
 4690 9.1 173407.1 -1949.8  
 4691 9.6 173426.0 -1930.6  
 4692 9.8 173435.3 -1936.0  
 4693 8.6 173436.6 -1925.9  
 4694 10. 173442.9 -1937.7

4695 9.0 173510.5 -1933.5  
 4696 9.4 173547.0 -1949.1  
 4697 9.5 173557.4 -1945.4  
 4698 9.5 173630.6 -1953.7  
 4699 9.6 173630.8 -1913.7  
 4700 9.4 173735.3 -1946.7  
 4701 9.4 173758.3 -1935.3  
 4702 9.0 173806.8 -1956.1  
 4703 9.5 173910.5 -1904.7  
 4704 9.5 173925.2 -1900.6  
 4705 8.8 173942.4 -1906.1  
 4706 9.5 173943.1 -1921.2  
 4707 9.0 173950.3 -1934.7  
 4708 8.3 174006.7 -1943.2  
 4709 9.5 174038.0 -1952.2  
 4710 9.8 174049.7 -1900.3  
 4711 7.4 174059.3 -1957.2  
 4712 10. 174059.5 -1957.6  
 4713 8.5 174116.1 -1951.3  
 4714 9.4 174148.5 -1917.6  
 4715 9.5 174151.4 -1910.6  
 4716 10. 174157.3 -1953.4  
 4717 9.8 174201.9 -1957.3  
 4718 9.5 174202.8 -1928.8  
 4719 9.5 174253.2 -1937.3  
 4720 9.3 174301.8 -1959.5  
 4721 10. 174302.1 -1912.7  
 4722 10. 174305.6 -1911.0  
 4723 8.0 174308.3 -1943.9  
 4724 10. 174312.5 -1902.2  
 4725 6.8 174314.6 -1928.5  
 4726 9.3 174335.0 -1940.2  
 4727 9.0 174339.3 -1944.3  
 4728 6.7 174346.9 -1904.5  
 4729 8.7 174404.3 -1926.5  
 4730 9.8 174413.5 -1927.1  
 4731 9.5 174413.7 -1933.5  
 4732 9.1 174441.1 -1900.9  
 4733 7.0 174511.1 -1950.9  
 4734 8.8 174546.8 -1925.4  
 4735 9.5 174559.3 -1929.6  
 4736 9.5 174602.0 -1907.1  
 4737 9.5 174600.3 -1909.2  
 4738 9.5 174603.0 -1922.4  
 4739 9.8 174613.2 -1907.4  
 4740 9.3 174613.3 -1959.0  
 4741 9.3 174621.6 -1951.5  
 4742 9.4 174625.1 -1935.9  
 4743 9.5 174637.6 -1942.2  
 4744 9.4 174641.6 -1918.7  
 4745 8.9 174647.1 -1915.6  
 4746 9.2 174650.4 -1917.5  
 4747 9.4 174705.3 -1903.4  
 4748 9.0 174706.4 -1947.7  
 4749 9.5 174711.3 -1947.4  
 4750 9.3 174731.2 -1920.9  
 4751 9.2 174737.5 -1948.0  
 4752 9.3 174737.7 -1932.8  
 4753 9.0 174744.4 -1901.6  
 4754 9.6 174742.9 -1900.2  
 4755 9.3 174750.3 -1907.4  
 4756 10. 174753.8 -1900.6  
 4757 9.8 174756.3 -1944.7  
 4758 9.5 174801.9 -1903.6  
 4759 9.6 174804.5 -1904.2  
 4760 9.4 174808.4 -1907.4  
 4761 9.7 174811.0 -1901.4  
 4762 9.3 174812.3 -1902.1  
 4763 9.4 174818.4 -1903.5  
 4764 8.4 174820.2 -1918.4  
 4765 9.7 174820.9 -1904.8  
 4766 9.7 174825.3 -1900.8  
 4767 9.8 174829.6 -1901.9  
 4768 10. 174830.9 -1904.2  
 4769 9.3 174836.0 -1901.4  
 4770 9.3 174836.0 -1904.0  
 4771 9.8 174850.3 -1901.4  
 4772 8.8 174851.2 -1955.9  
 4773 10. 174854.6 -1903.2  
 4774 8.6 174859.1 -1951.7  
 4775 9.0 174905.9 -1907.0  
 4776 8.8 174910.1 -1925.9  
 4777 8.8 174938.4 -1915.0  
 4778 8.8 174946.2 -1912.8  
 4779 9.9 174954.2 -1937.0  
 4780 10. 175008.5 -1905.6  
 4781 9.3 175008.8 -1958.8  
 4782 9.5 175011.2 -1901.0  
 4783 9.2 175027.4 -1933.5  
 4784 8.5 175042.1 -1931.3



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 4785 | 9.5 | 175052.1 | -1940.9 | 4875 | 9.4 | 180112.6 | -1928.6 | 4965 | 8.4 | 181153.6 | -1953.9 | 5055 | 8.8 | 182343.7 | -1919.0 |
| 4786 | 9.4 | 175112.5 | -1949.9 | 4876 | 9.4 | 180118.1 | -1905.6 | 4966 | 9.7 | 181157.7 | -1935.5 | 5056 | 9.6 | 182352.7 | -1904.5 |
| 4787 | 9.8 | 175128.8 | -1901.7 | 4877 | 9.8 | 180123.7 | -1900.9 | 4967 | 9.5 | 181204.5 | -1916.3 | 5057 | 8.7 | 182355.3 | -1933.5 |
| 4788 | 9.3 | 175142.1 | -1943.6 | 4878 | 9.6 | 180133.8 | -1912.5 | 4968 | 10. | 181211.5 | -1937.2 | 5058 | 9.3 | 182355.4 | -1911.8 |
| 4789 | 7.8 | 175151.9 | -1913.1 | 4879 | 10. | 180142.4 | -1917.4 | 4969 | 9.0 | 181215.8 | -1959.3 | 5059 | 8.0 | 182358.0 | -1904.4 |
| 4790 | 9.1 | 175152.8 | -1922.6 | 4880 | 9.6 | 180146.3 | -1912.7 | 4970 | 7.8 | 181226.8 | -1942.8 | 5060 | 9.1 | 182358.4 | -1923.3 |
| 4791 | 9.1 | 175201.6 | -1942.9 | 4881 | 9.5 | 180152.6 | -1950.5 | 4971 | 9.5 | 181233.1 | -1959.2 | 5061 | 9.5 | 182422.2 | -1925.7 |
| 4792 | 8.5 | 175206.4 | -1941.6 | 4882 | 8.8 | 180204.5 | -1911.6 | 4972 | 9.8 | 181233.5 | -1901.7 | 5062 | 9.5 | 182439.1 | -1904.4 |
| 4793 | 9.3 | 175212.3 | -1955.9 | 4883 | 9.1 | 180206.3 | -1919.3 | 4973 | 9.4 | 181250.0 | -1941.0 | 5063 | 9.3 | 182450.0 | -1936.5 |
| 4794 | 9.0 | 175214.5 | -1953.7 | 4884 | 9.2 | 180226.5 | -1935.5 | 4974 | 8.3 | 181251.6 | -1919.6 | 5064 | 9.6 | 182457.0 | -1917.9 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4795 | 8.3 | 175228.7 | -1951.2 | 4885 | 9.5 | 180237.1 | -1956.8 | 4975 | 9.5 | 181307.3 | -1936.0 | 5065 | 8.5 | 182502.0 | -1956.5 |
| 4796 | 7.8 | 175231.6 | -1956.8 | 4886 | 6.7 | 180239.3 | -1951.9 | 4976 | 9.3 | 181308.8 | -1944.3 | 5066 | 9.9 | 182504.5 | -1917.3 |
| 4797 | 9.0 | 175236.4 | -1940.9 | 4887 | 9.5 | 180241.8 | -1942.6 | 4977 | 9.5 | 181321.1 | -1943.2 | 5067 | 9.0 | 182524.5 | -1935.0 |
| 4798 | 9.1 | 175238.5 | -1950.3 | 4888 | 8.7 | 180246.1 | -1927.8 | 4978 | 9.6 | 181346.7 | -1934.1 | 5068 | 9.4 | 182527.0 | -1945.1 |
| 4799 | 9.3 | 175306.3 | -1921.7 | 4889 | 9.4 | 180250.5 | -1914.1 | 4979 | 9.8 | 181349.2 | -1918.2 | 5069 | 9.5 | 182529.5 | -1953.0 |
| 4800 | 7.0 | 175320.3 | -1905.5 | 4890 | 9.4 | 180256.8 | -1920.9 | 4980 | 9.0 | 181414.7 | -1914.2 | 5070 | 10. | 182536.9 | -1907.4 |
| 4801 | 9.0 | 175326.6 | -1940.6 | 4891 | 9.8 | 180259.5 | -1931.9 | 4981 | 8.9 | 181419.3 | -1950.0 | 5071 | 7.5 | 182548.6 | -1953.1 |
| 4802 | 9.5 | 175323.1 | -1936.5 | 4892 | 9.0 | 180312.9 | -1904.1 | 4982 | 9.3 | 181438.8 | -1946.4 | 5072 | 9.3 | 182556.0 | -1946.1 |
| 4803 | 9.4 | 175335.1 | -1948.1 | 4893 | 9.4 | 180315.4 | -1945.3 | 4983 | 9.5 | 181440.2 | -1907.1 | 5073 | 9.1 | 182614.4 | -1923.4 |
| 4804 | 9.1 | 175345.6 | -1936.5 | 4894 | 9.0 | 180323.0 | -1905.2 | 4984 | 9.3 | 181505.2 | -1921.4 | 5074 | 9.5 | 182620.5 | -1932.3 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4805 | 9.7 | 175354.5 | -1909.7 | 4895 | 7.3 | 180340.3 | -1927.7 | 4985 | 9.4 | 181516.3 | -1934.5 | 5075 | 8.8 | 182625.0 | -1938.4 |
| 4806 | 9.7 | 175357.1 | -1915.5 | 4896 | 9.5 | 180349.4 | -1918.2 | 4986 | 9.5 | 181524.9 | -1956.9 | 5076 | 9.5 | 182639.2 | -1959.5 |
| 4807 | 9.5 | 175413.1 | -1943.7 | 4897 | 9.3 | 180403.6 | -1918.3 | 4987 | 7.8 | 181529.8 | -1927.8 | 5077 | 7.0 | 182649.5 | -1922.3 |
| 4808 | 9.8 | 175428.8 | -1902.3 | 4898 | 9.3 | 180407.3 | -1926.3 | 4988 | 8.2 | 181534.8 | -1938.9 | 5078 | 9.0 | 182656.3 | -1930.1 |
| 4809 | 9.9 | 175443.3 | -1904.7 | 4899 | 9.5 | 180415.9 | -1928.8 | 4989 | 9.8 | 181540.2 | -1915.7 | 5079 | 10. | 182703.7 | -1951.5 |
| 4810 | 10. | 175449.7 | -1915.4 | 4900 | 8.7 | 180421.3 | -1946.9 | 4990 | 8.6 | 181541.7 | -1952.7 | 5080 | 8.5 | 182716.3 | -1939.6 |
| 4811 | 10. | 175453.7 | -1913.8 | 4901 | 9.5 | 180428.0 | -1916.0 | 4991 | 9.8 | 181543.0 | -1919.0 | 5081 | 9.3 | 182723.0 | -1933.5 |
| 4812 | 10. | 175454.0 | -1951.1 | 4902 | 9.8 | 180435.9 | -1942.4 | 4992 | 8.0 | 181603.3 | -1947.8 | 5082 | 9.5 | 182737.8 | -1901.2 |
| 4813 | 10. | 175459.2 | -1956.2 | 4903 | 9.6 | 180449.3 | -1924.1 | 4993 | 9.3 | 181605.3 | -1947.3 | 5083 | 8.8 | 182739.2 | -1957.2 |
| 4814 | 9.5 | 175507.6 | -1932.5 | 4904 | 9.4 | 180451.8 | -1947.2 | 4994 | 9.3 | 181607.3 | -1944.7 | 5084 | 9.5 | 182740.9 | -1907.8 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4815 | 9.3 | 175516.6 | -1926.1 | 4905 | 9.2 | 180501.4 | -1919.6 | 4995 | 9.3 | 181608.6 | -1946.9 | 5085 | 9.4 | 182741.8 | -1923.7 |
| 4816 | 9.0 | 175517.6 | -1913.2 | 4906 | 9.4 | 180507.9 | -1951.2 | 4996 | 9.5 | 181609.8 | -1933.1 | 5086 | 10. | 182747.4 | -1951.3 |
| 4817 | 9.4 | 175522.2 | -1934.9 | 4907 | 9.5 | 180509.8 | -1917.1 | 4997 | 9.2 | 181619.3 | -1920.0 | 5087 | 9.0 | 182756.6 | -1944.7 |
| 4818 | 9.1 | 175524.7 | -1942.9 | 4908 | 9.6 | 180511.9 | -1913.3 | 4998 | 9.0 | 181644.2 | -1907.7 | 5088 | 9.5 | 182803.4 | -1917.4 |
| 4819 | 8.0 | 175526.6 | -1927.9 | 4909 | 9.1 | 180519.5 | -1901.5 | 4999 | 9.4 | 181726.4 | -1906.3 | 5089 | 9.5 | 182811.1 | -1904.0 |
| 4820 | 9.0 | 175528.5 | -1936.9 | 4910 | 9.3 | 180523.7 | -1908.9 | 5000 | 10. | 181730.4 | -1903.3 | 5090 | 9.6 | 182811.7 | -1956.4 |
| 4821 | 8.0 | 175529.1 | -1948.4 | 4911 | 9.9 | 180529.2 | -1902.5 | 5001 | 9.7 | 181755.9 | -1916.6 | 5091 | 9.4 | 182818.5 | -1925.0 |
| 4822 | 9.3 | 175533.7 | -1925.5 | 4912 | 9.5 | 180530.7 | -1911.9 | 5002 | 9.3 | 181759.2 | -1909.2 | 5092 | 9.5 | 182824.0 | -1901.8 |
| 4823 | 10. | 175535.0 | -1923.5 | 4913 | 9.3 | 180534.1 | -1914.0 | 5003 | 9.5 | 181813.6 | -1907.5 | 5093 | 9.2 | 182825.9 | -1923.0 |
| 4824 | 9.5 | 175536.6 | -1942.5 | 4914 | 9.5 | 180543.3 | -1924.6 | 5004 | 9.4 | 181820.0 | -1936.8 | 5094 | 8.2 | 182826.6 | -1915.1 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4825 | 9.1 | 175604.2 | -1936.3 | 4915 | 9.2 | 180544.6 | -1906.5 | 5005 | 9.7 | 181839.7 | -1947.6 | 5095 | 8.6 | 182830.9 | -1953.6 |
| 4826 | 9.5 | 175606.7 | -1903.5 | 4916 | 9.5 | 180556.8 | -1921.9 | 5006 | 9.5 | 181839.7 | -1909.4 | 5096 | 9.4 | 182831.6 | -1914.9 |
| 4827 | 9.7 | 175612.5 | -1934.7 | 4917 | 8.8 | 180602.4 | -1905.5 | 5007 | 8.5 | 181840.0 | -1901.7 | 5097 | 7.6 | 182834.4 | -1919.8 |
| 4828 | 8.5 | 175614.3 | -1901.9 | 4918 | 9.4 | 180602.6 | -1926.8 | 5008 | 9.5 | 181851.7 | -1905.6 | 5098 | 10. | 182837.3 | -1924.7 |
| 4829 | 9.0 | 175636.0 | -1922.3 | 4919 | 10. | 180608.4 | -1945.4 | 5009 | 9.3 | 181902.9 | -1914.6 | 5099 | 8.3 | 182841.1 | -1931.4 |
| 4830 | 8.8 | 175638.8 | -1935.1 | 4920 | 9.5 | 180608.5 | -1924.1 | 5010 | 9.6 | 181913.2 | -1914.0 | 5100 | 9.8 | 182846.8 | -1939.7 |
| 4831 | 9.5 | 175647.8 | -1958.8 | 4921 | 9.3 | 180620.4 | -1915.7 | 5011 | 8.8 | 181925.5 | -1909.4 | 5101 | 8.1 | 182854.1 | -1932.5 |
| 4832 | 6.9 | 175658.1 | -1945.3 | 4922 | 9.5 | 180626.2 | -1958.1 | 5012 | 8.8 | 181936.9 | -1932.4 | 5102 | 9.8 | 182856.7 | -1943.3 |
| 4833 | 9.1 | 175703.2 | -1958.4 | 4923 | 9.5 | 180627.2 | -1958.3 | 5013 | 8.8 | 181942.4 | -1935.2 | 5103 | 9.8 | 182858.3 | -1928.3 |
| 4834 | 8.0 | 175720.3 | -1927.9 | 4924 | 9.0 | 180628.2 | -1915.1 | 5014 | 9.3 | 181959.0 | -1940.6 | 5104 | 9.5 | 182904.6 | -1959.9 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4835 | 8.3 | 175720.3 | -1942.7 | 4925 | 9.8 | 180639.8 | -1953.9 | 5015 | 8.8 | 181959.8 | -1951.8 | 5105 | 8.3 | 182918.2 | -1943.3 |
| 4836 | 8.8 | 175722.3 | -1957.5 | 4926 | 9.3 | 180640.4 | -1909.4 | 5016 | 9.5 | 182006.8 | -1914.6 | 5106 | 10. | 182929.8 | -1932.6 |
| 4837 | 9.0 | 175733.3 | -1957.3 | 4927 | 10. | 180643.5 | -1950.9 | 5017 | 9.3 | 182015.5 | -1915.4 | 5107 | 9.5 | 182942.5 | -1949.3 |
| 4838 | 9.0 | 175745.4 | -1934.0 | 4928 | 8.2 | 180645.3 | -1901.4 | 5018 | 9.0 | 182019.8 | -1920.2 | 5108 | 9.6 | 183000.4 | -1913.3 |
| 4839 | 9.8 | 175755.7 | -1953.2 | 4929 | 8.5 | 180645.8 | -1958.0 | 5019 | 9.0 | 182027.7 | -1903.0 | 5109 | 9.5 | 183001.2 | -1904.0 |
| 4840 | 9.2 | 175758.2 | -1914.1 | 4930 | 9.5 | 180648.6 | -1954.2 | 5020 | 9.0 | 182032.2 | -1909.8 | 5110 | 9.4 | 183007.2 | -1915.9 |
| 4841 | 8.8 | 175758.8 | -1904.6 | 4931 | 9.2 | 180656.5 | -1921.0 | 5021 | 9.4 | 182052.0 | -1950.0 | 5111 | 9.1 | 183007.2 | -1939.5 |
| 4842 | 9.0 | 175822.8 | -1923.2 | 4932 | 9.1 | 180701.7 | -1959.7 | 5022 | 9.5 | 182057.9 | -1904.8 | 5112 | 10. | 183018.7 | -1905.5 |
| 4843 | 9.5 | 175831.6 | -1940.4 | 4933 | 9.0 | 180704.2 | -1931.2 | 5023 | 9.5 | 182059.4 | -1920.7 | 5113 | 8.4 | 183020.6 | -1914.0 |
| 4844 | 9.5 | 175836.4 | -1958.1 | 4934 | 9.6 | 180705.0 | -1913.9 | 5024 | 9.9 | 182104.0 | -1950.2 | 5114 | 9.2 | 183103.3 | -1955.0 |
|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
| 4845 | 9.4 | 175838.1 | -1950.5 | 4935 | 9.2 | 180707.9 | -1952.4 | 5025 | 8.8 | 182108.3 | -1941.4 | 5115 | 9.2 | 183123.5 | -1923.7 |
| 4846 | 9.1 | 175839.5 | -1917.8 | 4936 | 9.2 | 180721.1 | -1957.2 | 5026 | 9.3 | 182110.8 | -1915.1 | 5116 | 9.7 | 183126.2 | -1911.2 |
| 4847 | 9.8 | 175851.9 | -1905.6 | 4937 | 9.5 | 180737.5 | -1923.3 | 5027 | 9.5 | 182120.1 | -1956.4 | 5117 | 9.5 | 183141.5 | -1946.4 |
| 4848 | 9.8 | 175853.2 | -1915.3 | 4938 | 9.7 | 180742.8 | -1915.6 | 5028 | 8.8 | 182120.5 | -1936.4 | 5118 | 9.3 | 183159.6 | -1953.1 |
| 4849 | 9.3 | 175858.7 | -1918.5 | 4939 | 9.1 | 180753.0 | -1901.2 | 5029 | 9.5 | 182135.6 | -1956.4 | 5119 | 9.5 | 183201.7 | -1919.8 |
| 4850 | 9.6 | 175906.6 | -1948.8 | 4940 | 9.4 | 180816.4 | -1949.7 | 5030 | 8.8 | 182148.9 | -1927.5 | 5120 | 9.5 | 183223.1 | -1954.1 |
| 4851 | 9.7 | 175906.9 | -1913.6 | 4941 | 9.3 | 180818.5 | -1922.9 | 5031 | 9.4 | 182203.4 | -       |      |     |          |         |



-19 5145 18h35m

5145 9.5 183548.4 -1901.5  
5146 9.2 183551.5 -1915.8  
5147 9.5 183554.5 -1936.4  
5148 9.4 183603.4 -1932.2  
5149 8.9 183609.0 -1928.0  
5150 9.5 183648.9 -1902.0  
5151 9.5 183711.9 -1910.8  
5152 9.4 183719.3 -1957.1  
5153 8.7 183724.1 -1913.6  
5154 6.8 183728.0 -1945.0  
  
5155 9.5 183743.1 -1943.7  
5156 9.5 183747.6 -1908.8  
5157 9.5 183758.6 -1948.4  
5158 9.5 183800.3 -1903.3  
5159 9.7 183808.4 -1930.1  
5160 9.1 183812.8 -1908.4  
5161 10. 183825.2 -1920.5  
5162 9.9 183825.9 -1903.8  
5163 9.3 183834.1 -1939.0  
5164 9.2 183840.3 -1950.8  
  
5165 9.6 183852.9 -1907.5  
5166 9.5 183858.1 -1936.3  
5167 9.5 183901.5 -1922.5  
5168 7.0 183940.5 -1921.5  
5169 9.1 183943.6 -1944.9  
5170 8.8 183956.6 -1950.7  
5171 9.5 184004.9 -1905.4  
5172 9.3 184009.0 -1911.9  
5173 10. 184014.4 -1904.5  
5174 9.5 184020.8 -1937.5  
  
5175 9.5 184022.1 -1923.8  
5176 9.4 184032.6 -1913.7  
5177 9.5 184040.4 -1902.7  
5178 9.5 184043.9 -1909.2  
5179 9.0 184057.1 -1910.3  
5180 10. 184057.4 -1921.5  
5181 8.5 184102.4 -1903.6  
5182 7.1 184103.1 -1918.1  
5183 9.5 184111.5 -1904.9  
5184 9.2 184121.7 -1953.8  
  
5185 9.4 184129.0 -1935.7  
5186 8.8 184145.9 -1908.1  
5187 9.5 184149.8 -1937.0  
5188 9.5 184151.1 -1902.9  
5189 8.7 184155.9 -1927.6  
5190 9.5 184205.3 -1931.7  
5191 9.5 184206.8 -1944.1  
5192 9.5 184208.1 -1948.7  
5193 9.1 184211.0 -1922.7  
5194 9.5 184223.4 -1903.2  
  
5195 8.4 184234.1 -1946.6  
5196 9.8 184248.3 -1950.0  
5197 9.8 184254.4 -1909.2  
5198 8.4 184255.8 -1948.2  
5199 9.5 184333.9 -1920.5  
5200 9.5 184420.0 -1938.9  
5201 8.7 184423.4 -1950.3  
5202 8.3 184425.5 -1917.4  
5203 9.5 184429.8 -1958.8  
5204 8.8 184444.6 -1957.5  
  
5205 9.5 184449.9 -1942.4  
5206 9.2 184454.3 -1955.2  
5207 9.8 184503.6 -1918.3  
5208 9.2 184504.0 -1951.1  
5209 8.8 184505.2 -1937.5  
5210 9.5 184513.5 -1942.4  
5211 7.8 184514.9 -1957.8  
5212 9.3 184517.8 -1953.8  
5213 9.1 184525.5 -1914.6  
5214 9.4 184532.2 -1943.1  
  
5215 9.5 184532.4 -1926.6  
5216 9.4 184538.9 -1929.7  
5217 9.5 184546.9 -1935.1  
5218 9.4 184550.0 -1947.2  
5219 9.2 184610.8 -1955.9  
5220 9.1 184611.5 -1949.6  
5221 10. 184621.0 -1902.8  
5222 8.2 184629.0 -1948.7  
5223 9.4 184644.2 -1957.6  
5224 9.5 184644.9 -1937.6  
  
5225 9.3 184645.0 -1928.7  
5226 9.2 184647.9 -1909.1  
5227 9.2 184652.1 -1942.3  
5228 9.3 184657.0 -1948.1  
5229 9.5 184658.2 -1907.8  
5230 9.9 184658.4 -1911.4  
5231 9.4 184710.5 -1923.7  
5232 9.3 184721.9 -1912.1  
5233 9.7 184732.0 -1934.7  
5234 9.5 184753.2 -1906.5

5235 9.3 184803.2 -1953.3  
5236 9.0 184806.1 -1959.6  
5237 8.6 184807.6 -1948.7  
5238 9.4 184823.1 -1947.9  
5239 9.3 184832.5 -1935.8  
5240 9.5 184848.5 -1938.0  
5241 9.5 184858.6 -1948.3  
5242 7.0 184904.1 -1920.4  
5243 9.5 184911.2 -1906.0  
5244 8.4 184915.5 -1953.0  
  
5245 9.6 184937.5 -1935.6  
5246 9.5 184944.0 -1907.4  
5247 9.4 184944.5 -1903.5  
5248 9.5 184955.6 -1950.9  
5249 9.4 184957.8 -1946.8  
5250 8.8 184958.0 -1921.8  
5251 9.6 185012.0 -1901.0  
5252 9.3 185014.5 -1934.5  
5253 10. 185037.0 -1921.0  
5254 9.4 185041.9 -1913.8  
  
5255 7.0 185052.2 -1928.1  
5256 9.2 185101.7 -1951.5  
5257 9.4 185107.8 -1953.2  
5258 8.8 185128.7 -1929.8  
5259 9.3 185130.0 -1927.0  
5260 9.8 185134.5 -1906.0  
5261 9.5 185200.2 -1925.6  
5262 7.3 185202.7 -1950.8  
5263 7.8 185232.8 -1932.3  
5264 9.4 185247.3 -1952.4  
  
5265 9.5 185251.5 -1914.7  
5266 9.6 185311.7 -1915.4  
5267 9.3 185312.8 -1930.6  
5268 9.1 185344.8 -1911.4  
5269 9.1 185401.9 -1923.8  
5270 9.5 185404.3 -1942.0  
5271 9.4 185416.5 -1937.3  
5272 9.4 185417.6 -1913.9  
5273 6.1 185432.3 -1927.0  
5274 9.1 185432.9 -1940.0  
  
5275 7.0 185435.9 -1918.2  
5276 9.2 185436.0 -1907.2  
5277 9.0 185442.8 -1937.1  
5278 9.0 185452.3 -1943.4  
5279 9.5 185455.7 -1950.7  
5280 9.1 185502.1 -1928.4  
5281 8.5 185503.0 -1900.5  
5282 9.4 185506.4 -1955.2  
5283 9.5 185506.9 -1922.5  
5284 9.5 185518.5 -1902.7  
  
5285 9.6 185519.3 -1930.3  
5286 9.6 185551.6 -1916.5  
5287 8.6 185638.9 -1954.0  
5288 9.8 185647.4 -1928.5  
5289 9.5 185710.8 -1905.2  
5290 9.5 185717.3 -1904.3  
5291 9.6 185720.7 -1958.4  
5292 8.0 185726.3 -1941.7  
5293 9.1 185749.7 -1916.7  
5294 9.5 185754.5 -1904.5  
  
5295 8.7 185801.4 -1952.8  
5296 9.8 185818.5 -1917.6  
5297 9.8 185819.3 -1922.5  
5298 9.8 185822.8 -1940.4  
5299 9.8 185831.6 -1957.0  
5300 9.4 185834.4 -1908.1  
5301 10. 185843.4 -1905.8  
5302 9.2 185843.8 -1953.6  
5303 9.8 185851.2 -1949.6  
5304 8.8 185906.4 -1935.8  
  
5305 9.4 185910.6 -1946.0  
5306 9.5 185910.8 -1919.9  
5307 9.8 185930.3 -1945.4  
5308 9.9 185933.5 -1924.3  
5309 9.0 185941.3 -1949.4  
5310 9.5 185942.1 -1942.9  
5311 9.4 185944.1 -1907.9  
5312 6.0 185946.5 -1920.7  
5313 10. 185954.0 -1954.9  
5314 9.5 185959.1 -1908.6  
  
5315 9.5 190001.5 -1958.1  
5316 9.5 190003.9 -1945.6  
5317 7.4 190014.2 -1910.5  
5318 9.5 190016.3 -1945.6  
5319 9.3 190018.1 -1902.2  
5320 9.3 190025.4 -1928.8  
5321 9.5 190033.8 -1958.4  
5322 9.5 190058.8 -1937.6  
5323 8.5 190059.4 -1938.1  
5324 9.0 190106.4 -1912.2

5325 9.4 190125.9 -1901.3  
5326 9.5 190137.8 -1955.8  
5327 9.0 190152.6 -1953.5  
5328 9.9 190159.7 -1913.9  
5329 9.4 190210.6 -1938.6  
5330 9.8 190213.9 -1934.6  
5331 10. 190224.1 -1919.9  
5332 9.5 190234.8 -1924.5  
5333 9.2 190239.7 -1955.0  
5334 10. 190248.0 -1925.5  
  
5335 9.2 190253.8 -1916.0  
5336 8.8 190314.5 -1925.6  
5337 9.1 190315.1 -1914.5  
5338 9.3 190323.2 -1955.6  
5339 9.9 190339.0 -1927.8  
5340 9.5 190402.1 -1943.1  
5341 9.5 190405.3 -1928.8  
5342 9.3 190405.8 -1954.5  
5343 9.4 190410.7 -1932.5  
5344 8.3 190414.0 -1928.1  
  
5345 8.6 190433.3 -1943.5  
5346 9.0 190455.6 -1905.8  
5347 9.7 190525.3 -1906.4  
5348 9.2 190525.9 -1940.1  
5349 9.5 190528.3 -1910.4  
5350 9.2 190536.2 -1952.5  
5351 9.5 190543.9 -1932.5  
5352 9.3 190556.0 -1940.0  
5353 8.7 190615.7 -1913.1  
5354 9.5 190646.1 -1936.3  
  
5355 9.5 190656.0 -1926.9  
5356 9.3 190700.4 -1940.7  
5357 9.3 190701.0 -1936.9  
5358 9.5 190709.5 -1939.4  
5359 9.8 190728.1 -1925.0  
5360 9.6 190735.9 -1936.2  
5361 9.7 190737.1 -1954.9  
5362 9.8 190748.8 -1910.4  
5363 9.6 190753.6 -1947.3  
5364 9.6 190802.6 -1948.0  
  
5365 9.9 190809.0 -1937.0  
5366 9.5 190811.4 -1929.1  
5367 30.0 190811.9 -1933.7  
5368 9.3 190821.5 -1928.2  
5369 9.3 190828.8 -1918.8  
5370 9.9 190831.7 -1958.6  
5371 9.4 190834.4 -1934.1  
5372 8.8 190840.5 -1914.2  
5373 9.4 190848.1 -1922.5  
5374 9.4 190852.3 -1918.1  
  
5375 9.1 190854.6 -1927.4  
5376 8.5 190855.4 -1900.9  
5377 9.2 190858.6 -1959.4  
5378 9.0 190901.5 -1918.9  
5379 5.3 190909.5 -1912.5  
5380 8.8 190914.8 -1952.7  
5381 9.7 190915.6 -1931.2  
5382 9.8 190917.4 -1919.4  
5383 9.8 190923.0 -1915.9  
5384 9.0 190925.5 -1940.4  
  
5385 10. 190928.7 -1924.1  
5386 8.5 190933.8 -1923.8  
5387 8.0 190942.9 -1907.0  
5388 8.5 190950.0 -1937.0  
5389 9.6 190953.4 -1919.4  
5390 9.2 191002.0 -1919.6  
5391 9.5 191005.1 -1958.7  
5392 8.8 191017.4 -1958.8  
5393 9.3 191052.2 -1943.0  
5394 30.0 191056.6 -1917.0  
  
5395 9.1 191101.0 -1943.8  
5396 9.4 191118.1 -1932.4  
5397 9.8 191125.7 -1918.7  
5398 8.0 191129.8 -1937.5  
5399 9.3 191145.9 -1946.0  
5400 9.5 191148.0 -1902.5  
5401 9.5 191149.1 -1932.5  
5402 8.8 191157.2 -1907.5  
5403 9.1 191200.2 -1916.0  
5404 9.5 191203.5 -1949.1  
  
5405 9.5 191205.9 -1925.5  
5406 9.2 191220.7 -1919.7  
5407 9.3 191235.1 -1958.4  
5408 9.1 191258.6 -1922.8  
5409 9.1 191303.1 -1929.1  
5410 9.1 191305.9 -1957.7  
5411 9.5 191306.1 -1951.6  
5412 6.5 191308.0 -1930.0  
5413 9.4 191321.5 -1937.4  
5414 9.3 191326.2 -1905.3

-19 5504 19h25m

5415 8.3 191334.4 -1923.1  
5416 9.8 191356.7 -1945.9  
5417 9.2 191402.6 -1954.3  
5418 8.3 191407.2 -1917.6  
5419 9.5 191408.3 -1902.8  
5420 9.8 191418.5 -1959.9  
5421 9.7 191430.0 -1914.6  
5422 8.3 191435.6 -1915.4  
5423 9.4 191437.8 -1904.8  
5424 9.2 191453.5 -1956.0  
  
5425 9.5 191505.0 -1955.4  
5426 9.7 191506.6 -1953.0  
5427 8.8 191514.6 -1957.1  
5428 9.5 191523.2 -1940.7  
5429 9.5 191524.1 -1923.5  
5430 9.4 191528.4 -1935.8  
5431 9.7 191531.9 -1911.7  
5432 9.8 191532.5 -1956.2  
5433 10. 191550.8 -1942.5  
5434 8.4 191552.7 -1959.5  
  
5435 10. 191558.8 -1945.2  
5436 8.2 191601.9 -1912.2  
5437 9.6 191610.8 -1953.0  
5438 9.1 191620.3 -1910.4  
5439 9.5 191622.9 -1936.2  
5440 10. 191625.4 -1951.1  
5441 9.4 191626.8 -1955.2  
5442 9.5 191636.1 -1911.6  
5443 8.9 191637.7 -1919.8  
5444 9.6 191650.2 -1942.7  
  
5445 9.8 191702.1 -1919.8  
5446 9.5 191703.0 -1939.1  
5447 9.7 191706.6 -1913.3  
5448 8.7 191713.0 -1927.3  
5449 9.5 191716.8 -1919.0  
5450 9.7 191742.3 -1940.8  
5451 9.6 191754.4 -1933.0  
5452 10. 191819.7 -1947.0  
5453 9.3 191819.9 -1941.9  
5454 10. 191823.1 -1924.7  
  
5455 9.8 191834.9 -1933.7  
5456 9.8 191843.8 -1940.3  
5457 9.0 191900.7 -1929.4  
5458 9.7 191916.7 -1955.3  
5459 10. 191919.0 -1932.8  
5460 8.6 191919.3 -1903.4  
5461 9.8 191930.8 -1946.1  
5462 7.8 191934.6 -1937.9  
5463 9.5 191946.7 -1951.6  
5464 9.4 191949.9 -1940.8  
  
5465 9.6 192009.5 -1934.6  
5466 9.7 192021.3 -1947.0  
5467 9.8 192033.5 -1931.9  
5468 9.8 192034.3 -1946.0  
5469 9.7 192038.7 -1953.8  
5470 9.8 192042.4 -1940.9  
5471 8.5 192058.3 -1909.0  
5472 9.5 192103.4 -1906.1  
5473 9.5 192106.9 -1901.0  
5474 9.1 192109.0 -1933.5  
  
5475 9.0 192111.3 -1947.1  
5476 10. 192122.9 -1943.0  
5477 9.5 192129.1 -1930.6  
5478 10. 192130.0 -1929.8  
5479 8.0 192132.5 -1951.4  
5480 9.6 192136.7 -1921.5  
5481 9.5 192139.6 -1931.7  
5482 8.2 192140.3 -1941.2  
5483 9.8 192140.3 -1946.3  
5484 9.5 192203.3 -1932.6  
  
5485 9.8 192215.9 -1954.9  
5486 9.4 192222.0 -1913.3  
5487 9.6 192234.1 -1927.2  
5488 9.5 192242.9 -1923.2  
5489 9.5 192257.8 -1928.8  
5490 9.6 192304.1 -1926.6  
5491 9.8 192305.3 -1931.7  
5492 7.0 192314.8 -1941.5  
5493 10. 192322.4 -1915.3  
5494 9.8 192325.4 -1912.2  
  
5495 10. 192336.8 -1946.6  
5496 9.2 192351.9 -1902.6  
5497 9.3 192352.8 -1926.7  
5498 9.4 192353.9 -1908.7  
5499 9.0 192443.5 -1934.7  
5500 9.8 192447.8 -1955.3  
5501 9.8 192451.4 -1941.1  
5502 10. 192504.0 -1918.5  
5503 8.5 192517.9 -1910.1  
5504 9.7 192519.7 -1953.9



|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 5505 | 8.5 | 192539.5 | -1952.8 | 5595 | 9.2 | 193844.8 | -1924.8 | 5685 | 9.3 | 195445.8 | -1949.4 | 5775 | 9.5 | 201042.7 | -1939.3 |
| 5506 | 10. | 192546.9 | -1939.1 | 5596 | 7.5 | 193853.7 | -1905.6 | 5686 | 9.7 | 195457.0 | -1917.4 | 5776 | 5.7 | 201101.6 | -1933.8 |
| 5507 | 9.5 | 192600.3 | -1959.1 | 5597 | 9.5 | 193901.1 | -1900.9 | 5687 | 9.5 | 195508.7 | -1927.5 | 5777 | 9.0 | 201103.2 | -1935.1 |
| 5508 | 9.5 | 192614.9 | -1959.2 | 5598 | 9.6 | 193908.5 | -1958.2 | 5688 | 9.0 | 195513.7 | -1921.7 | 5778 | 9.5 | 201112.6 | -1914.7 |
| 5509 | 9.7 | 192615.2 | -1921.3 | 5599 | 9.5 | 193913.4 | -1915.0 | 5689 | 8.8 | 195523.3 | -1911.6 | 5779 | 9.5 | 201128.7 | -1957.2 |
| 5510 | 9.8 | 192628.4 | -1940.8 | 5600 | 8.5 | 193915.7 | -1933.8 | 5690 | 9.5 | 195543.5 | -1920.7 | 5780 | 9.5 | 201149.1 | -1936.8 |
| 5511 | 8.3 | 192629.4 | -1904.5 | 5601 | 10. | 193941.3 | -1933.8 | 5691 | 9.5 | 195553.8 | -1948.9 | 5781 | 9.8 | 201159.3 | -1946.2 |
| 5512 | 9.8 | 192647.0 | -1938.1 | 5602 | 9.5 | 193949.7 | -1959.9 | 5692 | 9.5 | 195606.2 | -1958.5 | 5782 | 9.5 | 201159.4 | -1901.9 |
| 5513 | 8.9 | 192648.7 | -1953.2 | 5603 | 10. | 193950.1 | -1945.2 | 5693 | 9.8 | 195613.6 | -1903.1 | 5783 | 9.1 | 201203.9 | -1959.8 |
| 5514 | 9.3 | 192706.9 | -1947.2 | 5604 | 10. | 193951.6 | -1919.2 | 5694 | 9.3 | 195622.6 | -1955.5 | 5784 | 9.2 | 201219.3 | -1904.6 |
| 5515 | 9.0 | 192723.9 | -1942.7 | 5605 | 9.4 | 193957.7 | -1927.8 | 5695 | 9.6 | 195622.7 | -1918.7 | 5785 | 9.1 | 201228.7 | -1933.5 |
| 5516 | 8.8 | 192736.8 | -1954.6 | 5606 | 8.8 | 193957.9 | -1909.7 | 5696 | 9.3 | 195635.9 | -1940.1 | 5786 | 9.5 | 201229.8 | -1942.2 |
| 5517 | 8.7 | 192744.4 | -1913.4 | 5607 | 9.6 | 194004.2 | -1942.5 | 5697 | 7.8 | 195639.4 | -1910.8 | 5787 | 9.8 | 201234.4 | -1920.3 |
| 5518 | 9.4 | 192747.2 | -1923.8 | 5608 | 9.5 | 194005.5 | -1916.6 | 5698 | 9.5 | 195639.9 | -1959.4 | 5788 | 8.9 | 201245.4 | -1911.1 |
| 5519 | 9.9 | 192751.3 | -1914.4 | 5609 | 9.5 | 194037.2 | -1942.8 | 5699 | 9.5 | 195648.3 | -1955.0 | 5789 | 9.8 | 201245.6 | -1947.0 |
| 5520 | 9.3 | 192754.5 | -1905.4 | 5610 | 9.5 | 194038.2 | -1903.0 | 5700 | 9.0 | 195651.6 | -1907.0 | 5790 | 9.9 | 201248.3 | -1922.8 |
| 5521 | 5.8 | 192800.5 | -1910.2 | 5611 | 9.5 | 194043.6 | -1928.7 | 5701 | 9.5 | 195659.2 | -1956.1 | 5791 | 9.2 | 201248.5 | -1952.2 |
| 5522 | 9.3 | 192801.1 | -1918.8 | 5612 | 8.8 | 194045.8 | -1923.4 | 5702 | 10. | 195703.1 | -1949.9 | 5792 | 9.0 | 201257.4 | -1900.7 |
| 5523 | 8.8 | 192812.5 | -1934.3 | 5613 | 10. | 194052.1 | -1941.5 | 5703 | 9.2 | 195732.5 | -1946.6 | 5793 | 9.0 | 201310.2 | -1932.1 |
| 5524 | 9.5 | 192813.2 | -1951.1 | 5614 | 10. | 194059.2 | -1940.9 | 5704 | 8.3 | 195740.1 | -1906.5 | 5794 | 9.8 | 201333.9 | -1902.5 |
| 5525 | 9.5 | 192819.2 | -1937.3 | 5615 | 9.4 | 194110.7 | -1946.0 | 5705 | 9.2 | 195740.9 | -1908.0 | 5795 | 9.9 | 201335.3 | -1921.3 |
| 5526 | 7.8 | 192823.4 | -1905.7 | 5616 | 9.0 | 194121.2 | -1943.5 | 5706 | 7.0 | 195749.7 | -1953.5 | 5796 | 8.4 | 201401.6 | -1908.6 |
| 5527 | 9.7 | 192831.8 | -1949.6 | 5617 | 9.5 | 194126.9 | -1929.6 | 5707 | 9.3 | 195816.0 | -1936.1 | 5797 | 9.8 | 201411.0 | -1951.4 |
| 5528 | 10. | 192844.2 | -1928.1 | 5618 | 9.0 | 194132.2 | -1924.0 | 5708 | 9.4 | 195833.1 | -1904.5 | 5798 | 9.3 | 201441.8 | -1928.3 |
| 5529 | 10. | 192845.9 | -1945.1 | 5619 | 8.6 | 194142.8 | -1915.1 | 5709 | 9.2 | 195834.3 | -1912.2 | 5799 | 9.4 | 201448.0 | -1959.1 |
| 5530 | 8.8 | 192846.6 | -1903.2 | 5620 | 9.7 | 194148.8 | -1901.6 | 5710 | 9.4 | 195839.0 | -1951.5 | 5800 | 9.8 | 201507.9 | -1915.4 |
| 5531 | 9.7 | 192858.0 | -1914.2 | 5621 | 8.8 | 194202.4 | -1930.0 | 5711 | 9.5 | 195839.3 | -1929.1 | 5801 | 9.8 | 201517.2 | -1937.5 |
| 5532 | 8.7 | 192907.0 | -1920.4 | 5622 | 9.0 | 194206.7 | -1929.0 | 5712 | 9.3 | 195841.6 | -1929.4 | 5802 | 9.4 | 201521.6 | -1953.3 |
| 5533 | 9.6 | 192932.5 | -1943.6 | 5623 | 9.9 | 194214.3 | -1938.3 | 5713 | 9.8 | 195854.2 | -1939.1 | 5803 | 10. | 201521.6 | -1928.9 |
| 5534 | 8.5 | 192934.2 | -1931.7 | 5624 | 9.9 | 194220.4 | -1907.6 | 5714 | 7.8 | 195855.6 | -1959.4 | 5804 | 9.2 | 201544.9 | -1911.7 |
| 5535 | 9.2 | 192945.0 | -1913.2 | 5625 | 9.2 | 194239.0 | -1959.6 | 5715 | 10. | 195907.3 | -1903.7 | 5805 | 9.8 | 201541.7 | -1954.8 |
| 5536 | 9.5 | 192946.2 | -1928.4 | 5626 | 9.5 | 194245.1 | -1916.2 | 5716 | 9.0 | 195908.4 | -1944.9 | 5806 | 9.1 | 201603.7 | -1954.0 |
| 5537 | 10. | 192959.3 | -1928.6 | 5627 | 9.6 | 194248.2 | -1940.1 | 5717 | 9.8 | 195922.2 | -1949.4 | 5807 | 9.4 | 201608.1 | -1920.4 |
| 5538 | 9.3 | 193018.5 | -1940.6 | 5628 | 7.8 | 194308.8 | -1934.6 | 5718 | 8.7 | 195925.5 | -1936.4 | 5808 | 9.1 | 201611.8 | -1914.1 |
| 5539 | 10. | 193024.2 | -1929.4 | 5629 | 9.5 | 194332.4 | -1909.0 | 5719 | 9.3 | 195937.9 | -1944.2 | 5809 | 7.0 | 201641.6 | -1953.4 |
| 5540 | 9.4 | 193026.6 | -1934.5 | 5630 | 8.6 | 194343.4 | -1930.4 | 5720 | 9.5 | 195949.5 | -1959.3 | 5810 | 9.0 | 201643.8 | -1910.0 |
| 5541 | 9.5 | 193027.2 | -1946.4 | 5631 | 6.5 | 194346.5 | -1924.5 | 5721 | 7.0 | 195949.9 | -1912.7 | 5811 | 9.4 | 201657.3 | -1936.0 |
| 5542 | 10. | 193031.8 | -1959.6 | 5632 | 8.8 | 194356.9 | -1908.5 | 5722 | 9.0 | 200020.2 | -1956.3 | 5812 | 9.6 | 201706.2 | -1936.6 |
| 5543 | 9.3 | 193031.9 | -1950.9 | 5633 | 9.4 | 194403.7 | -1938.0 | 5723 | 9.5 | 200042.9 | -1952.6 | 5813 | 7.7 | 201800.8 | -1937.2 |
| 5544 | 9.0 | 193034.2 | -1932.2 | 5634 | 8.3 | 194410.6 | -1944.2 | 5724 | 8.5 | 200053.6 | -1949.8 | 5814 | 9.6 | 201813.0 | -1959.5 |
| 5545 | 8.8 | 193059.1 | -1955.9 | 5635 | 9.5 | 194412.3 | -1933.2 | 5725 | 9.5 | 200057.9 | -1919.6 | 5815 | 8.9 | 201829.6 | -1918.9 |
| 5546 | 9.2 | 193116.8 | -1921.9 | 5636 | 9.3 | 194432.0 | -1904.8 | 5726 | 9.0 | 200110.8 | -1919.3 | 5816 | 9.2 | 201849.5 | -1901.7 |
| 5547 | 7.8 | 193119.2 | -1933.7 | 5637 | 8.9 | 194444.8 | -1938.1 | 5727 | 9.1 | 200117.0 | -1941.1 | 5817 | 8.9 | 201854.2 | -1900.1 |
| 5548 | 9.4 | 193120.2 | -1929.9 | 5638 | 9.8 | 194537.1 | -1953.2 | 5728 | 9.8 | 200117.3 | -1919.1 | 5818 | 9.4 | 201857.3 | -1938.3 |
| 5549 | 9.4 | 193127.9 | -1957.7 | 5639 | 9.0 | 194547.4 | -1941.6 | 5729 | 9.6 | 200134.7 | -1914.6 | 5819 | 9.5 | 201858.4 | -1905.0 |
| 5550 | 9.1 | 193143.3 | -1915.2 | 5640 | 9.2 | 194547.5 | -1952.3 | 5730 | 9.0 | 200144.6 | -1947.6 | 5820 | 9.4 | 201901.9 | -1928.7 |
| 5551 | 9.6 | 193145.1 | -1909.0 | 5641 | 9.4 | 194556.1 | -1959.0 | 5731 | 7.0 | 200159.4 | -1941.2 | 5821 | 10. | 201910.8 | -1903.3 |
| 5552 | 9.5 | 193210.4 | -1919.2 | 5642 | 7.8 | 194605.4 | -1918.5 | 5732 | 9.3 | 200246.3 | -1921.5 | 5822 | 10. | 201914.1 | -1928.6 |
| 5553 | 8.6 | 193222.3 | -1952.2 | 5643 | 8.8 | 194607.1 | -1950.0 | 5733 | 9.6 | 200256.7 | -1958.5 | 5823 | 9.4 | 201948.2 | -1948.4 |
| 5554 | 9.5 | 193230.0 | -1911.0 | 5644 | 9.4 | 194611.0 | -1920.8 | 5734 | 10. | 200258.6 | -1904.0 | 5824 | 9.7 | 202007.9 | -1931.5 |
| 5555 | 10. | 193251.8 | -1954.2 | 5645 | 9.5 | 194617.0 | -1923.6 | 5735 | 9.6 | 200203.9 | -1933.5 | 5825 | 9.7 | 202026.8 | -1956.2 |
| 5556 | 9.8 | 193304.8 | -1909.9 | 5646 | 9.8 | 194628.1 | -1923.7 | 5736 | 9.6 | 200315.3 | -1937.1 | 5826 | 9.5 | 202112.3 | -1951.4 |
| 5557 | 10. | 193307.4 | -1920.7 | 5647 | 8.5 | 194636.9 | -1908.5 | 5737 | 9.3 | 200337.3 | -1921.3 | 5827 | 9.6 | 202116.2 | -1922.0 |
| 5558 | 9.4 | 193310.6 | -1956.3 | 5648 | 10. | 194641.0 | -1942.5 | 5738 | 9.8 | 200353.4 | -1945.0 | 5828 | 9.7 | 202119.4 | -1955.5 |
| 5559 | 9.3 | 193418.2 | -1907.2 | 5649 | 10. | 194648.1 | -1942.9 | 5739 | 9.9 | 200407.2 | -1900.1 | 5829 | 8.5 | 202123.5 | -1933.9 |
| 5560 | 9.5 | 193425.0 | -1900.4 | 5650 | 7.0 | 194657.8 | -1939.8 | 5740 | 9.6 | 200421.2 | -1910.7 | 5830 | 8.3 | 202123.7 | -1903.6 |
| 5561 | 8.0 | 193445.2 | -1927.3 | 5651 | 10. | 194714.1 | -1905.0 | 5741 | 9.6 | 200423.3 | -1942.5 | 5831 | 7.1 | 202135.6 | -1903.2 |
| 5562 | 10. | 193447.0 | -1949.7 | 5652 | 9.8 | 194719.2 | -1936.9 | 5742 | 8.5 | 200425.2 | -1908.9 | 5832 | 9.5 | 202145.1 | -1908.5 |
| 5563 | 9.2 | 193449.4 | -1910.4 | 5653 | 8.0 | 194732.2 | -1914.9 | 5743 | 8.7 | 200428.6 | -1931.1 | 5833 | 9.7 | 202201.3 | -1921.5 |
| 5564 | 9.5 | 193501.3 | -1907.5 | 5654 | 9.5 | 194737.7 | -1917.1 | 5744 | 9.5 | 200428.7 | -1948.5 | 5834 | 10. | 202224.7 | -1935.6 |
| 5565 | 9.0 | 193505.9 | -1922.4 | 5655 | 9.8 | 194752.6 | -1956.3 | 5745 | 9.8 | 200451.0 | -1945.6 | 5835 | 8.7 | 202225.4 | -1955.6 |
| 5566 | 9.6 | 193509.3 | -1909.1 | 5656 | 9.0 | 194835.5 | -1956.7 | 5746 | 9.4 | 200515.4 | -1956.0 | 5836 | 9.6 | 202236.6 | -1934.0 |
| 5567 | 9.4 | 193511.2 | -1948.8 | 5657 | 9.5 | 194840.9 | -1931.5 | 5747 | 10. | 200548.5 | -1947.4 | 5837 | 9.0 | 202240.1 | -1936.2 |
| 5568 | 9.8 | 193517.9 | -1959.5 | 5658 | 10. | 194850.4 | -1930.0 | 5748 | 9.8 | 200554.0 | -1929.0 | 5838 | 9.6 | 202324.1 | -1900.0 |
| 5569 | 9.8 | 193520.3 | -1912.9 | 5659 | 9.0 | 194857.9 | -1913.4 | 5749 | 9.7 | 200557.8 | -1923.8 | 5839 | 9.8 | 202336.3 | -1937.4 |
| 5570 | 9.8 | 193526.2 | -1937.7 | 5660 | 9.6 | 194858.5 | -1930.4 | 5750 | 9.5 | 200603.4 | -1952.5 | 5840 | 9.7 | 202340.8 | -1907.1 |
| 5571 | 9.5 | 193530.7 | -1933.1 | 5661 | 8.6 | 194859.3 | -1954.9 | 5751 | 9.5 | 200616.6 | -1913.9 | 5841 | 9.6 | 202350.9 | -1949.0 |
| 5572 | 9.8 | 193537.3 | -1926.2 | 5662 | 9.7 | 194918.3 | -1943.5 | 5752 | 9.8 | 200617.5 | -1946.4 | 5842 | 9.6 | 202359.9 | -1949.9 |
| 5573 | 9.8 | 193539.0 | -1917.6 | 5663 | 9.3 | 194930.2 | -1945.9 | 5753 | 8.0 | 200620.1 | -1938.9 | 5843 | 9.3 | 202402.0 | -1910.2 |
| 5574 | 10. | 193553.3 | -1953.3 | 5664 | 9.7 | 194937.3 | -1938.5 | 5754 | 9.5 | 200643.3 | -1958.9 | 5844 | 9.3 | 202402.2 | -1945.6 |
| 5575 | 9.3 | 193556.3 | -1959.8 | 5665 | 9.5 | 194949.2 | -1907.0 | 5755 | 9.2 | 200657.3 | -1910.5 | 5845 | 9.5 | 202427.5 | -1946.3 |
| 5576 | 9.5 | 193601.4 | -1918.5 | 5666 | 8.5 | 194951.0 | -1900.1 | 5756 | 8.5 | 200720.0 | -1921.4 | 5846 | 8.5 | 202442.1 | -1947.1 |
| 5577 | 9.7 | 193602.5 | -1959.6 | 5667 | 9.3 | 195041.7 | -1955.3 | 5757 | 9.8 | 200723.1 | -191    |      |     |          |         |



5865 9.4 202838.8 -1938.9  
5866 9.4 202846.1 -1957.0  
5867 9.0 202908.7 -1945.1  
5868 8.9 202970.1 -1916.5  
5869 9.8 202951.4 -1936.2  
5870 8.7 202953.8 -1917.8  
5871 9.5 203007.7 -1957.3  
5872 8.7 203010.3 -1908.6  
5873 9.6 203014.1 -1926.6  
5874 9.3 203033.3 -1941.0

5875 9.3 203036.7 -1942.3  
5876 9.3 203053.5 -1950.9  
5877 7.8 203056.6 -1946.9  
5878 9.8 203057.2 -1911.8  
5879 9.5 203109.0 -1917.0  
5880 9.6 203109.3 -1912.7  
5881 9.1 203111.4 -1931.0  
5882 9.4 203112.3 -1955.8  
5883 9.5 203116.5 -1944.2  
5884 10. 203124.0 -1950.6

5885 9.7 203125.8 -1959.4  
5886 9.5 203128.5 -1916.0  
5887 9.8 203206.4 -1941.0  
5888 8.9 203217.0 -1903.7  
5889 8.2 203231.5 -1917.3  
5890 10. 203317.2 -1934.1  
5891 9.5 203317.5 -1958.1  
5892 8.5 203326.1 -1934.2  
5893 9.5 203340.4 -1935.0  
5894 9.0 203351.7 -1949.0

5895 9.0 203358.8 -1906.3  
5896 9.5 203414.2 -1922.5  
5897 9.5 203425.7 -1946.2  
5898 9.5 203430.1 -1939.1  
5899 9.5 203433.2 -1924.6  
5900 9.8 203503.8 -1956.1  
5901 9.1 203507.6 -1959.5  
5902 9.0 203512.7 -1937.7  
5903 9.1 203518.0 -1908.6  
5904 9.5 203523.1 -1944.4

5905 7.3 203536.3 -1951.3  
5906 9.5 203551.7 -1914.6  
5907 9.8 203603.3 -1924.3  
5908 9.5 203610.9 -1938.2  
5909 9.0 203617.5 -1934.0  
5910 9.2 203630.3 -1921.0  
5911 10. 203650.0 -1937.1  
5912 9.6 203653.6 -1933.3  
5913 9.0 203713.3 -1924.8  
5914 9.0 203729.4 -1941.6

5915 9.5 203743.0 -1929.0  
5916 9.8 203743.7 -1926.6  
5917 8.8 203748.4 -1939.8  
5918 9.3 203749.3 -1936.3  
5919 9.5 203801.2 -1927.9  
5920 8.8 203811.1 -1920.2  
5921 7.0 203820.2 -1958.0  
5922 9.5 203822.8 -1946.1  
5923 9.5 203825.9 -1937.6  
5924 9.1 203835.9 -1910.0

5925 8.0 203907.3 -1908.9  
5926 9.5 203926.7 -1930.3  
5927 9.5 203945.6 -1921.6  
5928 6.5 203955.2 -1947.3  
5929 9.7 204010.0 -1931.4  
5930 9.5 204040.5 -1933.4  
5931 9.7 204046.8 -1915.7  
5932 9.2 204217.6 -1931.0  
5933 9.7 204222.0 -1904.0  
5934 9.3 204223.1 -1930.6

5935 9.4 204244.9 -1908.3  
5936 9.5 204259.0 -1958.2  
5937 9.7 204304.3 -1958.0  
5938 9.5 204338.6 -1959.6  
5939 9.5 204342.5 -1905.6  
5940 8.8 204353.0 -1936.9  
5941 9.5 204355.9 -1955.5  
5942 8.3 204404.6 -1917.0  
5943 9.5 204427.9 -1930.9  
5944 9.2 204430.7 -1910.1

5945 9.4 204432.8 -1915.3  
5946 9.4 204442.4 -1909.5  
5947 9.5 204445.9 -1946.7  
5948 9.8 204506.0 -1906.8  
5949 9.8 204512.8 -1903.7  
5950 6.5 204515.7 -1939.5  
5951 9.7 204519.6 -1919.5  
5952 9.8 204531.3 -1921.4  
5953 9.4 204535.6 -1919.9  
5954 7.3 204550.4 -1932.4

5955 9.4 204558.1 -1958.8  
5956 9.8 204601.0 -1918.0  
5957 9.8 204613.5 -1942.5  
5958 8.6 204616.8 -1923.5  
5959 9.3 204624.9 -1953.9  
5960 7.0 204631.1 -1920.3  
5961 9.8 204701.8 -1905.1  
5962 9.7 204704.4 -1912.4  
5963 9.0 204711.2 -1929.8  
5964 9.5 204722.0 -1941.7

5965 9.1 204727.7 -1934.8  
5966 8.2 204730.6 -1907.8  
5967 8.9 204749.6 -1934.9  
5968 9.5 204841.4 -1954.2  
5969 8.8 204858.0 -1920.5  
5970 9.1 204914.8 -1928.9  
5971 9.0 204925.5 -1915.3  
5972 9.8 204956.9 -1923.0  
5973 9.7 204959.5 -1913.6  
5974 9.8 204959.5 -1945.3

5975 9.8 205019.0 -1952.0  
5976 9.4 205027.2 -1941.5  
5977 9.1 205044.1 -1942.6  
5978 8.2 205048.4 -1934.9  
5979 9.3 205058.7 -1943.7  
5980 9.2 205103.9 -1944.1  
5981 9.6 205113.3 -1953.9  
5982 6.2 205120.8 -1935.8  
5983 9.7 205136.7 -1957.5  
5984 9.0 205152.3 -1935.3

5985 9.2 205201.8 -1936.2  
5986 9.8 205207.6 -1947.8  
5987 9.8 205210.8 -1922.8  
5988 9.2 205233.0 -1916.4  
5989 9.8 205247.7 -1905.7  
5990 9.4 205258.5 -1956.6  
5991 8.3 205311.7 -1929.0  
5992 9.5 205314.0 -1911.0  
5993 9.5 205316.4 -1946.5  
5994 9.6 205335.0 -1924.0

5995 8.9 205342.9 -1948.5  
5996 9.4 205355.3 -1954.5  
5997 9.4 205416.4 -1921.5  
5998 7.0 205429.9 -1948.7  
5999 8.5 205451.8 -1952.3  
6000 9.8 205517.5 -1919.8  
6001\* 9.8 205534.4 -1919.5  
6002 9.4 205541.1 -1902.8  
6003 9.4 205542.6 -1921.7  
6004 9.4 205542.9 -1902.1

6005 10. 205545.1 -1956.8  
6006 9.5 205549.8 -1954.2  
6007 9.5 205557.8 -1914.0  
6008 8.1 205601.3 -1905.6  
6009 9.2 205607.9 -1953.5  
6010 9.1 205617.5 -1917.0  
6011 9.5 205635.7 -1949.6  
6012 9.2 205655.0 -1917.4  
6013 9.5 205709.0 -1927.7  
6014 9.3 205718.6 -1939.2

6015 9.5 205748.1 -1915.9  
6016 9.5 205754.5 -1953.8  
6017 9.7 205823.7 -1944.7  
6018 9.6 205827.7 -1914.5  
6019 9.7 205846.5 -1920.0  
6020 9.8 205848.4 -1932.3  
6021 9.8 205849.0 -1945.7  
6022 8.2 205854.4 -1916.6  
6023 9.5 205912.9 -1956.0  
6024 7.0 205916.2 -1939.7

6025 9.1 205948.1 -1933.7  
6026 9.0 205948.7 -1930.6  
6027 9.4 205957.9 -1942.9  
6028 8.3 21007.3 -1918.4  
6029 9.2 21007.5 -1912.5  
6030 9.5 210052.2 -1947.7  
6031 9.8 210105.6 -1955.2  
6032 9.0 210120.0 -1900.3  
6033 9.5 210138.9 -1908.1  
6034 9.8 210139.9 -1916.1

6035 9.1 210139.9 -1909.7  
6036 9.5 210143.5 -1926.3  
6037 9.5 210208.8 -1959.2  
6038 8.7 210211.4 -1902.8  
6039 9.1 210225.3 -1950.7  
6040 9.5 210229.2 -1926.3  
6041 8.8 210248.1 -1935.4  
6042 9.7 210311.6 -1929.1  
6043 9.5 210325.7 -1918.1  
6044 9.8 210335.0 -1906.0

6045 9.5 210337.0 -1904.6  
6046 9.5 210352.8 -1946.0  
6047 9.6 210400.1 -1921.4  
6048 9.5 210431.4 -1947.3  
6049 9.4 210432.9 -1900.4  
6050 9.8 210444.8 -1947.3  
6051 9.8 210455.1 -1932.1  
6052 9.5 210501.7 -1944.9  
6053 9.0 210532.8 -1935.6  
6054 9.3 210538.2 -1922.1

6055 9.0 210554.3 -1926.8  
6056 10. 210602.8 -1913.6  
6057 10. 210634.7 -1934.7  
6058 9.5 210734.3 -1925.1  
6059 10. 210743.6 -1951.6  
6060 9.5 210802.4 -1950.4  
6061 9.0 210808.1 -1956.7  
6062 9.3 210837.4 -1923.2  
6063 9.0 210902.9 -1929.9  
6064 9.5 210931.4 -1931.1

6065 8.3 211001.2 -1918.0  
6066 9.5 211005.5 -1928.7  
6067 9.5 211022.9 -1934.5  
6068 9.3 211023.5 -1950.3  
6069 9.5 211033.4 -1905.5  
6070 9.5 211035.9 -1924.1  
6071 10. 211043.8 -1948.4  
6072 9.5 211204.2 -1957.1  
6073 9.0 211208.3 -1932.7  
6074 9.6 211219.5 -1932.3

6075 9.9 211221.1 -1912.0  
6076 9.6 211236.0 -1933.0  
6077 10. 211302.0 -1948.2  
6078 9.0 211306.4 -1946.9  
6079 8.8 211308.0 -1926.6  
6080 9.0 211320.7 -1947.8  
6081 8.0 211335.0 -1920.7  
6082 9.8 211343.5 -1900.7  
6083 9.0 211353.3 -1950.2  
6084 9.2 211410.3 -1956.2

6085 10. 211443.0 -1929.0  
6086 10. 211443.0 -1902.3  
6087 9.5 211501.6 -1942.9  
6088 9.7 211601.8 -1915.8  
6089 9.7 211616.5 -1910.5  
6090 9.7 211633.2 -1912.2  
6091 9.5 211647.2 -1940.8  
6092 8.5 211647.9 -1934.0  
6093 9.5 211728.0 -1939.9  
6094 8.0 211734.8 -1912.4

6095 9.6 211753.2 -1931.5  
6096 9.4 211825.3 -1926.4  
6097 9.0 211852.4 -1901.3  
6098 7.5 211853.3 -1940.8  
6099 8.0 211904.1 -1956.4  
6100 9.0 211936.9 -1948.8  
6101 9.8 211940.7 -1900.5  
6102 9.5 212002.8 -1944.1  
6103 10. 212022.3 -1910.2  
6104 9.2 212023.2 -1918.2

6105 10. 212144.4 -1921.5  
6106 10. 212147.7 -1942.3  
6107 6.5 212150.4 -1946.6  
6108 9.8 212201.5 -1939.5  
6109 9.3 212207.3 -1915.1  
6110 9.5 212240.2 -1900.2  
6111 9.7 212247.0 -1914.9  
6112 8.8 212312.6 -1957.6  
6113 7.3 212316.5 -1952.0  
6114 9.0 212413.0 -1940.2

6115 9.8 212424.4 -1916.3  
6116 8.7 212442.4 -1913.2  
6117 8.7 212506.7 -1912.2  
6118 9.8 212509.1 -1959.6  
6119 9.1 212517.0 -1941.0  
6120 9.2 212527.1 -1918.8  
6121 10. 212540.5 -1932.4  
6122 9.5 212557.1 -1943.5  
6123 9.6 212610.9 -1904.7  
6124 9.6 212616.9 -1902.4

6125 9.5 212622.6 -1950.0  
6126 8.5 212711.1 -1952.5  
6127 9.6 212711.8 -1940.5  
6128 8.2 212725.5 -1924.8  
6129 9.4 212805.6 -1937.8  
6130 9.7 212808.5 -1919.0  
6131 7.8 212816.4 -1902.4  
6132 9.2 212835.9 -1918.3  
6133 7.7 212852.3 -1923.2  
6134 7.5 212915.0 -1904.8

6135 9.6 212924.2 -1922.5  
6136 7.8 212930.7 -1952.3  
6137 9.5 212947.9 -1913.8  
6138 8.5 213035.6 -1920.1  
6139 10. 213042.7 -1933.4  
6140 9.1 213120.6 -1905.4  
6141 8.5 213123.9 -1952.0  
6142 9.5 213124.3 -1904.5  
6143 9.3 213124.5 -1952.2  
6144 9.6 213205.9 -1948.7

6145 8.6 213206.3 -1905.1  
6146 7.5 213229.3 -1933.0  
6147 9.3 213254.6 -1956.7  
6148 9.4 213258.3 -1920.9  
6149 9.5 213355.3 -1958.0  
6150 9.8 213412.7 -1907.1  
6151 9.0 213412.9 -1916.0  
6152 5.0 213432.4 -1931.2  
6153 9.5 213457.7 -1949.9  
6154 9.8 213524.2 -1912.2

6155 9.5 213527.0 -1930.3  
6156 8.9 213548.8 -1915.0  
6157 9.4 213604.8 -1917.5  
6158 9.1 213718.1 -1914.6  
6159 10. 213844.9 -1946.7  
6160 9.0 213848.8 -1904.1  
6161 8.8 213919.1 -1944.2  
6162 9.5 213921.4 -1920.5  
6163 9.1 213957.1 -1929.4  
6164 9.6 214011.1 -1919.7

6165 9.1 214014.5 -1902.2  
6166 9.3 214041.5 -1927.3  
6167 9.2 214056.6 -1916.0  
6168 9.9 214104.8 -1900.2  
6169 7.8 214116.9 -1903.7  
6170 9.1 214130.6 -1916.9  
6171 9.3 214131.4 -1919.8  
6172 8.6 214155.7 -1922.1  
6173 9.6 214316.9 -1904.4  
6174 9.0 214321.3 -1931.9

6175 9.4 214334.6 -1919.5  
6176 6.6 214358.0 -1917.5  
6177 9.0 214345.2 -1931.1  
6178 9.0 214404.8 -1948.6  
6179 9.6 214411.9 -1928.2  
6180 10. 214412.5 -1912.5  
6181 9.0 214446.0 -1903.0  
6182 9.5 214451.3 -1941.2  
6183 9.5 214456.3 -1942.5  
6184 8.8 214458.9 -1949.7

6185 9.9 214522.8 -1914.9  
6186 9.5 214611.8 -1929.1  
6187 9.6 214644.8 -1914.0  
6188 9.7 214749.9 -1927.7  
6189 9.3 214842.5 -1946.5  
6190 8.0 214853.0 -1952.3  
6191 8.9 214907.6 -1923.9  
6192 10. 214910.4 -1910.7  
6193 8.8 214916.5 -1934.8  
6194 10. 214943.0 -1909.1

6195 9.8 214956.0 -1950.8  
6196 9.5 214958.0 -1940.5  
6197 10. 215013.9 -1901.1  
6198 8.8 215025.8 -1914.7  
6199 9.8 215137.6 -1922.4  
6200 9.8 215203.0 -1926.6  
6201 9.6 215216.4 -1912.6  
6202 9.5 215256.6 -1913.8  
6203 9.3 215312.6 -1917.2  
6204 9.5 215312.7 -1958.3

6205 9.5 215339.6 -1943.5  
6206 9.5 215341.1 -1956.0  
6207 9.4 215431.2 -1939.5  
6208 9.6 215517.7 -1931.2  
6209 9.6 215543.8 -1957.8  
6210 9.5 215619.6 -1908.2  
6211 9.5 215648.7 -1930.5  
6212 8.2 215652.8 -1946.3  
6213 9.6 215707.5 -1956.6  
6214 9.0 215713.6 -1932.5

6215 9.5 215728.5 -1916.8  
6216 9.5 215738.1 -1948.2  
6217 7.5 215748.7 -1922.0  
6218 9.0 215754.8 -1937.8  
6219 9.8 215833.8 -1929.8  
6220 9.3 215837.9 -1936.7  
6221 9.5 215850.4 -1949.9  
6222 9.5 215914.9 -1922.3  
6223 9.4 220006.0 -1956.8  
6224 9.6 220014.7 -1906.9



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 6225 | 8.8  | 220021.9 | -1947.9 | 6315 | 9.7  | 223203.4 | -1911.8 | 6405 | 9.4  | 230022.7 | -1955.7 | 6495 | 9.5  | 233403.3 | -1945.2 |
| 6226 | 9.9  | 220050.2 | -1938.2 | 6316 | 6.7  | 223212.2 | -1956.9 | 6406 | 9.3  | 230045.5 | -1901.3 | 6496 | 9.7  | 233405.7 | -1912.4 |
| 6227 | 6.0  | 220101.2 | -1913.4 | 6317 | 9.3  | 223256.0 | -1939.0 | 6407 | 9.3  | 230058.4 | -1954.7 | 6497 | 9.9  | 233524.8 | -1939.2 |
| 6228 | 8.5  | 220108.7 | -1911.2 | 6318 | 8.5  | 223401.9 | -1919.1 | 6408 | 8.0  | 230102.0 | -1932.2 | 6498 | 10.1 | 233537.1 | -1940.8 |
| 6229 | 9.8  | 220117.0 | -1933.3 | 6319 | 8.6  | 223413.8 | -1911.5 | 6409 | 8.8  | 230104.6 | -1949.9 | 6499 | 10.1 | 233636.9 | -1942.3 |
| 6230 | 8.7  | 220121.0 | -1941.5 | 6320 | 9.8  | 223514.7 | -1902.0 | 6410 | 8.6  | 230144.1 | -1924.6 | 6500 | 5.8  | 233640.5 | -1904.7 |
| 6231 | 9.0  | 220129.7 | -1908.9 | 6321 | 9.8  | 223521.2 | -1900.2 | 6411 | 9.0  | 230159.1 | -1956.5 | 6501 | 9.4  | 233646.8 | -1955.2 |
| 6232 | 8.8  | 220130.7 | -1909.6 | 6322 | 9.4  | 223542.9 | -1947.5 | 6412 | 8.7  | 230223.1 | -1929.1 | 6502 | 9.1  | 233702.9 | -1935.7 |
| 6233 | 9.4  | 220210.2 | -1938.2 | 6323 | 9.8  | 223546.7 | -1919.2 | 6413 | 9.8  | 230226.2 | -1946.5 | 6503 | 9.5  | 233709.1 | -1906.8 |
| 6234 | 9.4  | 220214.8 | -1905.6 | 6324 | 5.1  | 223546.7 | -1935.0 | 6414 | 9.0  | 230310.6 | -1942.4 | 6504 | 9.9  | 233737.9 | -1932.8 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 6235 | 9.1  | 220220.6 | -1955.7 | 6325 | 9.2  | 223558.1 | -1928.8 | 6415 | 9.4  | 230320.2 | -1931.0 | 6505 | 9.3  | 233749.6 | -1904.5 |
| 6236 | 9.6  | 220309.3 | -1906.3 | 6326 | 8.8  | 223609.4 | -1902.4 | 6416 | 6.7  | 230322.1 | -1925.6 | 6506 | 5.0  | 233828.9 | -1928.8 |
| 6237 | 9.0  | 220319.8 | -1938.3 | 6327 | 9.6  | 223618.7 | -1941.3 | 6417 | 9.2  | 230358.7 | -1905.1 | 6507 | 10.1 | 233903.0 | -1946.0 |
| 6238 | 9.4  | 220329.7 | -1922.9 | 6328 | 9.2  | 223643.0 | -1951.0 | 6418 | 9.8  | 230409.3 | -1944.9 | 6508 | 9.1  | 233908.1 | -1908.2 |
| 6239 | 9.4  | 220343.1 | -1914.9 | 6329 | 10.1 | 223702.6 | -1902.4 | 6419 | 9.8  | 230412.2 | -1928.1 | 6509 | 9.1  | 233908.5 | -1933.8 |
| 6240 | 9.4  | 220423.3 | -1948.7 | 6330 | 8.4  | 223704.5 | -1934.8 | 6420 | 9.4  | 230418.6 | -1917.3 | 6510 | 8.3  | 233926.9 | -1958.5 |
| 6241 | 9.1  | 220431.4 | -1958.1 | 6331 | 9.7  | 223723.2 | -1945.1 | 6421 | 9.3  | 230458.7 | -1933.2 | 6511 | 9.3  | 234043.6 | -1953.1 |
| 6242 | 9.8  | 220453.7 | -1913.9 | 6332 | 9.5  | 223737.8 | -1932.2 | 6422 | 9.9  | 230459.5 | -1937.2 | 6512 | 9.6  | 234046.0 | -1900.8 |
| 6243 | 9.7  | 220520.8 | -1917.5 | 6333 | 9.8  | 223807.5 | -1909.1 | 6423 | 9.5  | 230514.0 | -1915.4 | 6513 | 8.0  | 234100.3 | -1941.5 |
| 6244 | 9.8  | 220537.9 | -1949.8 | 6334 | 9.8  | 223827.2 | -1910.4 | 6424 | 9.7  | 230529.7 | -1918.4 | 6514 | 9.5  | 234121.4 | -1956.8 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 6245 | 9.7  | 220543.3 | -1949.3 | 6335 | 10.1 | 223827.7 | -1902.3 | 6425 | 7.3  | 230536.2 | -1909.5 | 6515 | 9.2  | 234141.4 | -1900.8 |
| 6246 | 9.2  | 220546.4 | -1910.1 | 6336 | 8.0  | 223843.5 | -1903.0 | 6426 | 8.5  | 230651.4 | -1939.7 | 6516 | 9.4  | 234224.5 | -1912.7 |
| 6247 | 9.8  | 220606.7 | -1919.1 | 6337 | 8.5  | 223944.4 | -1955.7 | 6427 | 10.1 | 230753.5 | -1946.7 | 6517 | 9.5  | 234252.7 | -1949.5 |
| 6248 | 9.4  | 220622.3 | -1937.4 | 6338 | 9.7  | 224002.1 | -1915.1 | 6428 | 9.5  | 230916.9 | -1924.2 | 6518 | 9.4  | 234302.1 | -1903.9 |
| 6249 | 6.5  | 220623.3 | -1957.3 | 6339 | 9.9  | 224015.2 | -1901.1 | 6429 | 7.0  | 230919.0 | -1939.7 | 6519 | 7.3  | 234316.8 | -1905.7 |
| 6250 | 8.6  | 220647.8 | -1904.4 | 6340 | 9.0  | 224024.3 | -1947.4 | 6430 | 9.1  | 230923.4 | -1933.4 | 6520 | 9.8  | 234322.1 | -1915.2 |
| 6251 | 9.4  | 220654.9 | -1931.0 | 6341 | 9.2  | 224102.3 | -1951.2 | 6431 | 9.1  | 231003.0 | -1932.5 | 6521 | 8.5  | 234339.2 | -1951.1 |
| 6252 | 9.8  | 220748.2 | -1912.7 | 6342 | 8.8  | 224105.1 | -1922.4 | 6432 | 9.5  | 231038.5 | -1933.3 | 6522 | 5.0  | 234351.7 | -1942.9 |
| 6253 | 9.1  | 220757.4 | -1946.4 | 6343 | 9.0  | 224132.9 | -1910.0 | 6433 | 7.0  | 231050.5 | -1937.6 | 6523 | 9.6  | 234401.5 | -1910.7 |
| 6254 | 9.7  | 220814.0 | -1950.7 | 6344 | 9.2  | 224142.3 | -1934.7 | 6434 | 8.5  | 231054.1 | -1910.9 | 6524 | 8.7  | 234425.2 | -1928.2 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 6255 | 10.1 | 220903.5 | -1938.2 | 6345 | 9.8  | 224240.9 | -1948.3 | 6435 | 9.7  | 231059.9 | -1909.1 | 6525 | 8.8  | 234453.2 | -1901.2 |
| 6256 | 9.2  | 220923.5 | -1931.3 | 6346 | 8.5  | 224308.3 | -1930.0 | 6436 | 9.3  | 231123.9 | -1900.6 | 6526 | 9.4  | 234456.7 | -1922.2 |
| 6257 | 9.8  | 220958.0 | -1946.2 | 6347 | 9.2  | 224357.2 | -1901.9 | 6437 | 9.1  | 231131.5 | -1929.2 | 6527 | 7.5  | 234510.6 | -1921.9 |
| 6258 | 9.4  | 221021.1 | -1955.4 | 6348 | 9.5  | 224418.8 | -1901.7 | 6438 | 8.6  | 231148.6 | -1920.9 | 6528 | 10.1 | 234513.1 | -1912.3 |
| 6259 | 10.1 | 221024.5 | -1932.4 | 6349 | 8.7  | 224424.3 | -1933.1 | 6439 | 9.1  | 231150.3 | -1914.7 | 6529 | 9.8  | 234543.7 | -1912.7 |
| 6260 | 9.7  | 221048.6 | -1949.5 | 6350 | 9.2  | 224425.9 | -1942.8 | 6440 | 9.8  | 231211.0 | -1908.9 | 6530 | 8.7  | 234600.2 | -1904.2 |
| 6261 | 9.4  | 221139.1 | -1937.0 | 6351 | 7.5  | 224449.5 | -1948.5 | 6441 | 10.1 | 231217.5 | -1904.6 | 6531 | 9.1  | 234605.3 | -1910.6 |
| 6262 | 8.9  | 221235.1 | -1956.2 | 6352 | 10.1 | 224452.4 | -1911.4 | 6442 | 10.1 | 231303.6 | -1958.2 | 6532 | 9.1  | 234615.9 | -1901.2 |
| 6263 | 9.5  | 221236.0 | -1927.9 | 6353 | 10.1 | 224531.3 | -1921.9 | 6443 | 9.3  | 231314.4 | -1911.5 | 6533 | 7.8  | 234617.5 | -1910.1 |
| 6264 | 9.4  | 221238.2 | -1952.7 | 6354 | 9.5  | 224539.2 | -1920.3 | 6444 | 7.5  | 231316.6 | -1946.6 | 6534 | 9.3  | 234617.8 | -1905.5 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 6265 | 8.0  | 221329.4 | -1913.9 | 6355 | 9.5  | 224551.4 | -1901.8 | 6445 | 7.3  | 231317.4 | -1920.1 | 6535 | 9.7  | 234638.2 | -1937.0 |
| 6266 | 9.2  | 221428.1 | -1900.4 | 6356 | 9.8  | 224616.6 | -1942.4 | 6446 | 10.1 | 231320.1 | -1928.2 | 6536 | 9.6  | 234643.3 | -1905.2 |
| 6267 | 10.1 | 221643.7 | -1949.9 | 6357 | 6.4  | 224618.5 | -1956.7 | 6447 | 10.1 | 231500.9 | -1945.1 | 6537 | 9.5  | 234651.3 | -1915.2 |
| 6268 | 9.9  | 221701.4 | -1958.6 | 6358 | 10.1 | 224619.6 | -1944.2 | 6448 | 8.2  | 231606.8 | -1954.2 | 6538 | 9.4  | 234721.8 | -1923.7 |
| 6269 | 9.7  | 221707.9 | -1956.0 | 6359 | 9.2  | 224640.2 | -1948.8 | 6449 | 9.5  | 231617.7 | -1912.1 | 6539 | 10.1 | 234725.9 | -1911.7 |
| 6270 | 9.0  | 221719.3 | -1939.6 | 6360 | 9.8  | 224646.4 | -1955.5 | 6450 | 6.7  | 231628.9 | -1929.0 | 6540 | 8.5  | 234726.6 | -1956.2 |
| 6271 | 9.5  | 221735.8 | -1924.7 | 6361 | 9.9  | 224707.7 | -1933.7 | 6451 | 9.8  | 231712.0 | -1913.1 | 6541 | 9.0  | 234727.4 | -1932.6 |
| 6272 | 9.5  | 221750.8 | -1926.1 | 6362 | 9.8  | 224716.7 | -1925.5 | 6452 | 9.4  | 231726.0 | -1936.0 | 6542 | 9.7  | 234826.9 | -1917.9 |
| 6273 | 8.5  | 221811.9 | -1905.2 | 6363 | 9.5  | 224752.9 | -1932.3 | 6453 | 10.1 | 231843.6 | -1930.6 | 6543 | 9.5  | 234833.0 | -1953.7 |
| 6274 | 9.1  | 221817.4 | -1955.1 | 6364 | 9.4  | 224805.1 | -1931.7 | 6454 | 9.5  | 231914.5 | -1922.4 | 6544 | 9.0  | 234949.8 | -1912.1 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 6275 | 8.0  | 221823.8 | -1917.9 | 6365 | 9.6  | 224820.4 | -1927.6 | 6455 | 10.1 | 231920.1 | -1942.8 | 6545 | 9.4  | 235003.1 | -1915.4 |
| 6276 | 9.2  | 221833.8 | -1924.5 | 6366 | 9.1  | 224823.0 | -1908.2 | 6456 | 9.5  | 231927.8 | -1959.9 | 6546 | 9.4  | 235035.9 | -1946.5 |
| 6277 | 9.4  | 221845.1 | -1945.5 | 6367 | 9.8  | 224829.5 | -1959.6 | 6457 | 9.2  | 231933.6 | -1938.0 | 6547 | 9.5  | 235100.2 | -1913.7 |
| 6278 | 9.0  | 221849.8 | -1923.6 | 6368 | 10.1 | 224833.2 | -1917.2 | 6458 | 9.2  | 232014.7 | -1951.2 | 6548 | 9.4  | 235105.4 | -1945.8 |
| 6279 | 9.6  | 221856.6 | -1944.9 | 6369 | 9.7  | 224908.6 | -1920.9 | 6459 | 10.1 | 232042.5 | -1922.4 | 6549 | 8.0  | 235143.6 | -1920.5 |
| 6280 | 9.2  | 221926.9 | -1941.1 | 6370 | 9.7  | 224910.2 | -1915.6 | 6460 | 10.1 | 232054.1 | -1941.9 | 6550 | 9.5  | 235151.0 | -1921.7 |
| 6281 | 9.1  | 222057.8 | -1927.6 | 6371 | 10.1 | 224939.2 | -1957.4 | 6461 | 9.6  | 232056.8 | -1910.9 | 6551 | 9.3  | 235214.6 | -1914.7 |
| 6282 | 9.5  | 222145.5 | -1945.8 | 6372 | 9.6  | 224951.6 | -1943.0 | 6462 | 9.6  | 232101.6 | -1942.5 | 6552 | 9.1  | 235221.9 | -1933.4 |
| 6283 | 9.8  | 222149.0 | -1906.5 | 6373 | 8.8  | 225012.5 | -1908.2 | 6463 | 9.4  | 232128.6 | -1934.9 | 6553 | 8.5  | 235222.8 | -1918.9 |
| 6284 | 9.7  | 222149.5 | -1946.0 | 6374 | 8.7  | 225018.1 | -1944.6 | 6464 | 8.8  | 232209.6 | -1918.9 | 6554 | 9.6  | 235246.1 | -1953.3 |
|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
| 6285 | 9.5  | 222158.4 | -1937.9 | 6375 | 8.7  | 225019.6 | -1928.5 | 6465 | 9.4  | 232220.7 | -1923.9 | 6555 | 9.6  | 235254.8 | -1921.8 |
| 6286 | 9.9  | 222206.0 | -1925.2 | 6376 | 8.6  | 225028.2 | -1909.8 | 6466 | 9.3  | 232225.2 | -1929.6 | 6556 | 9.8  | 235303.7 | -1922.7 |
| 6287 | 9.3  | 222207.2 | -1903.2 | 6377 | 9.8  | 225029.3 | -1901.1 | 6467 | 8.6  | 232301.3 | -1929.6 | 6557 | 6.7  | 235327.0 | -1940.1 |
| 6288 | 9.8  | 222211.2 | -1945.8 | 6378 | 9.3  | 225103.0 | -1923.0 | 6468 | 9.5  | 232348.8 | -1946.3 | 6558 | 9.0  | 235347.6 | -1949.3 |
| 6289 | 9.3  | 222212.1 | -1908.9 | 6379 | 9.1  | 225159.7 | -1941.5 | 6469 | 9.5  | 232443.2 | -1922.8 | 6559 | 10.1 | 235404.1 | -1920.9 |
| 6290 | 9.8  | 222258.0 | -1942.2 | 6380 | 9.1  | 225211.8 | -1952.7 | 6470 | 8.6  | 232447.4 | -1951.0 | 6560 | 9.2  | 235408.6 | -1957.1 |
| 6291 | 8.7  | 222359.2 | -1955.8 | 6381 | 9.1  | 225223.4 |         |      |      |          |         |      |      |          |         |



-20 15 0h04m

15 9.6 00415.5 -2025.9  
16 9.0 00426.4 -2030.8  
17 10.0 00427.2 -2018.4  
18 10.0 00450.9 -2013.8  
19 10.0 00451.1 -2022.5  
20 8.9 00516.1 -2000.0  
21 9.8 00522.0 -2058.2  
22 10.0 00535.7 -2008.5  
23 9.5 00550.6 -2039.1  
24 9.5 00601.6 -2022.5  
  
25 9.3 00605.6 -2047.4  
26 10.0 00631.0 -2047.1  
27 9.8 00702.1 -2023.8  
28 9.7 00715.2 -2037.3  
29 9.9 00754.3 -2044.6  
30 9.5 00812.7 -2014.9  
31 10.0 00837.7 -2007.2  
32 8.0 00900.3 -2012.0  
33 9.2 00957.2 -2008.4  
34 9.6 01004.5 -2008.5  
  
35 9.5 01027.7 -2057.3  
36 9.1 01030.1 -2018.6  
37 9.8 01108.4 -2001.7  
38 9.1 01117.9 -2037.0  
39 8.9 01124.0 -2009.7  
40 9.5 01144.9 -2021.2  
41 9.0 01202.3 -2055.7  
42 8.8 01225.5 -2026.8  
43 10.0 01225.8 -2043.3  
44 9.1 01231.4 -2059.0  
  
45 9.3 01255.0 -2049.4  
46 9.4 01256.7 -2009.8  
47 10.0 01320.6 -2004.0  
48 7.8 01331.9 -2043.7  
49 9.5 01352.2 -2006.0  
50 5.5 01423.4 -2051.3  
51 9.5 01430.7 -2006.0  
52 9.1 01446.5 -2059.4  
53 9.8 01601.2 -2007.1  
54 9.9 01627.6 -2052.1  
  
55 9.3 01639.7 -2042.6  
56 8.8 01726.7 -2039.3  
57 8.3 01736.8 -2044.7  
58 10.0 01746.8 -2014.1  
59 7.7 01818.3 -2043.8  
60 9.0 01912.7 -2036.6  
61 9.2 01915.2 -2047.7  
62 9.5 01938.4 -2016.1  
63 9.5 01945.3 -2017.8  
64 9.6 01951.9 -2017.8  
  
65 9.6 01958.4 -2017.8  
66 9.5 02000.9 -2015.2  
67 6.5 02018.7 -2056.3  
68 9.8 02023.9 -2027.0  
69 9.0 02026.5 -2007.1  
70 9.8 02027.3 -2027.7  
71 9.6 02029.2 -2017.4  
72 9.5 02029.6 -2046.2  
73 9.6 02035.7 -2002.5  
74 9.3 02116.6 -2040.1  
  
75 10.0 02137.5 -2015.0  
76 10.0 02146.5 -2003.1  
77 9.0 02156.5 -2020.4  
78 9.7 02211.7 -2036.4  
79 9.2 02221.1 -2010.1  
80 9.7 02251.0 -2040.5  
81 8.6 02303.9 -2039.0  
82 9.6 02338.0 -2051.8  
83 10.0 02413.1 -2010.5  
84 8.8 02526.6 -2036.5  
  
85 10.0 02552.2 -2040.5  
86 8.0 02602.1 -2017.8  
87 9.8 02628.7 -2022.8  
88 9.5 02652.7 -2025.7  
89 8.6 02709.3 -2007.8  
90 9.6 02718.7 -2047.5  
91 9.6 02758.7 -2034.7  
92 9.4 02844.5 -2001.6  
93 9.2 02859.2 -2028.3  
94 9.8 02903.3 -2025.0  
  
95 9.4 02953.0 -2016.1  
96 9.0 02957.9 -2031.1  
97 7.8 03007.9 -2021.7  
98 9.8 03012.1 -2048.2  
99 10.0 03017.6 -2001.4  
100 10.0 03025.0 -2008.3  
101 9.5 03027.1 -2043.4  
102 9.5 03030.4 -2012.5  
103 9.4 03056.2 -2043.3  
104 10.0 03057.3 -2040.0

105 9.5 03059.6 -2022.1  
106 9.5 03059.7 -2008.5  
107 9.8 03102.7 -2050.0  
108 9.3 03115.0 -2051.1  
109 8.7 03121.9 -2032.1  
110 9.6 03126.8 -2056.9  
111 9.8 03149.3 -2048.9  
112 8.5 03157.0 -2053.1  
113 9.0 03202.4 -2039.6  
114 9.3 03228.0 -2036.4  
  
115 9.4 03330.5 -2038.4  
116 10.0 03307.0 -2028.6  
117 9.7 03355.6 -2039.5  
118 8.9 03403.5 -2039.9  
119 9.5 03411.6 -2013.4  
120 9.5 03502.3 -2057.1  
121 9.1 03509.6 -2031.8  
122 9.0 03525.4 -2025.7  
123 7.0 03527.9 -2059.3  
124 9.1 03534.5 -2054.5  
  
125 9.9 03642.0 -2057.9  
126 9.9 03702.2 -2012.5  
127 9.8 03735.7 -2031.2  
128 8.3 03745.5 -2005.5  
129 8.3 03908.5 -2053.5  
130 8.7 03928.6 -2013.2  
131 8.7 03929.1 -2044.9  
132 9.3 03949.9 -2033.9  
133 8.3 04006.8 -2045.4  
134 9.4 04017.9 -2029.2  
  
135 9.5 04048.5 -2012.7  
136 9.8 04131.1 -2052.3  
137 10.0 04133.4 -2012.3  
138 8.8 04145.5 -2029.8  
139 10.0 04148.4 -2001.8  
140 9.8 04205.6 -2041.9  
141 9.4 04215.2 -2057.5  
142 9.3 04232.9 -2043.5  
143 9.4 04234.0 -2034.6  
144 9.8 04241.9 -2011.4  
  
145 9.7 04242.7 -2023.6  
146 9.2 04325.6 -2041.7  
147 9.3 04419.3 -2053.9  
148 8.3 04451.7 -2012.5  
149 7.8 04520.7 -2041.0  
150 9.5 04521.1 -2015.8  
151 9.2 04536.1 -2042.6  
152 10.0 04542.1 -2008.0  
153 9.5 04558.1 -2045.7  
154 9.8 04615.4 -2052.5  
  
155 9.8 04616.6 -2000.9  
156 10.0 04617.9 -2007.8  
157 9.5 04625.4 -2053.1  
158 9.3 04640.1 -2006.9  
159 9.3 04701.0 -2054.8  
160 9.8 04703.2 -2027.3  
161 9.5 04738.3 -2015.4  
162 10.0 04759.3 -2034.2  
163 9.1 04809.0 -2058.1  
164 9.1 04825.9 -2037.8  
  
165 9.6 04832.9 -2035.7  
166 9.5 04909.4 -2034.8  
167 7.8 04919.8 -2013.9  
168 9.0 04919.9 -2039.3  
169 9.0 04959.4 -2006.8  
170 9.2 05000.7 -2037.2  
171 9.5 05027.3 -2000.5  
172 8.8 05027.7 -2045.1  
173 9.7 05104.9 -2004.0  
174 7.0 05134.5 -2025.1  
  
175 7.8 05153.0 -2006.8  
176 10.0 05208.9 -2033.4  
177 10.0 05211.4 -2003.5  
178 9.2 05258.8 -2047.9  
179 8.0 05318.1 -2010.2  
180 10.0 05321.2 -2046.5  
181 7.2 05332.5 -2052.5  
182 9.9 05332.7 -2034.3  
183 8.0 05438.1 -2011.8  
184 9.8 05451.5 -2001.7  
  
185 10.0 05451.6 -2024.1  
186 8.2 05458.2 -2026.7  
187 10.0 05557.2 -2010.8  
188 10.0 05635.2 -2025.3  
189 9.3 05710.9 -2034.3  
190 9.3 05754.9 -2042.9  
191 8.2 05806.3 -2037.8  
192 9.0 05830.8 -2020.8  
193 9.5 05844.4 -2034.0  
194 8.5 05855.3 -2021.7

195 10.0 05906.9 -2011.2  
196 8.5 05909.3 -2050.0  
197 9.7 05914.2 -2002.7  
198 9.0 05922.8 -2050.0  
199 9.9 05940.4 -2043.5  
200 9.9 10000.2 -2030.8  
201 10.0 10000.5 -2049.8  
202 9.8 10002.9 -2022.5  
203 8.0 10034.6 -2004.9  
204 9.1 10059.4 -2050.8  
  
205 9.4 10105.1 -2048.2  
206 9.8 10122.5 -2055.7  
207 9.0 10153.0 -2009.2  
208 9.0 10155.1 -2059.8  
209 8.4 10226.0 -2009.9  
210 9.0 10241.1 -2059.6  
211 9.3 10315.2 -2049.1  
212 9.5 10351.2 -2032.9  
213 10.0 10351.9 -2029.6  
214 8.8 10421.7 -2021.4  
  
215 9.1 10437.6 -2025.9  
216 9.7 10447.6 -2019.7  
217 9.7 10508.7 -2043.3  
218 9.7 10537.0 -2010.6  
219 9.6 10609.8 -2014.8  
220 8.5 10635.8 -2046.8  
221 9.7 10657.7 -2006.7  
222 9.8 10700.0 -2010.0  
223 8.6 10759.3 -2027.2  
224 10.0 10829.3 -2033.2  
  
225 10.0 10837.0 -2014.2  
226 9.5 10844.0 -2001.8  
227 8.3 10900.6 -2034.4  
228 9.6 10932.5 -2056.5  
229 8.3 10940.8 -2052.5  
230 9.3 11023.4 -2015.4  
231 9.7 11026.5 -2011.9  
232 10.0 11043.7 -2042.4  
233 9.0 11059.5 -2024.7  
234 7.5 11125.7 -2057.4  
  
235 7.8 11130.5 -2007.5  
236 9.7 11132.6 -2044.1  
237 9.0 11135.5 -2029.4  
238 9.8 11140.6 -2045.0  
239 9.3 11145.6 -2009.3  
240 9.9 11151.1 -2053.3  
241 10.0 11151.7 -2032.3  
242 9.1 11205.5 -2018.2  
243 9.2 11208.1 -2041.4  
244 9.2 11214.2 -2052.1  
  
245 9.8 11237.2 -2046.6  
246 9.2 11305.6 -2037.9  
247 10.0 11313.2 -2038.4  
248 9.1 11324.7 -2018.2  
249 7.3 11326.2 -2042.2  
250 9.8 11338.1 -2011.8  
251 9.4 11409.1 -2005.7  
252 10.0 11419.2 -2016.1  
253 10.0 11419.5 -2005.2  
254 9.3 11444.2 -2027.5  
  
255 10.0 11452.1 -2033.0  
256 8.5 11516.7 -2020.4  
257 9.7 11521.6 -2045.2  
258 10.0 11624.4 -2006.4  
259 8.8 11626.1 -2020.9  
260 10.0 11631.3 -2039.9  
261 9.8 11716.8 -2036.0  
262 8.2 11718.7 -2017.5  
263 10.0 11725.5 -2039.7  
264 10.0 11807.3 -2026.4  
  
265 9.1 11836.7 -2048.0  
266 9.3 11844.7 -2046.5  
267 9.7 11854.3 -2008.3  
268 10.0 11912.8 -2035.8  
269 8.3 11949.3 -2024.0  
270 9.8 12037.2 -2015.3  
271 8.5 12102.9 -2032.3  
272 9.6 12105.3 -2033.7  
273 10.0 12121.5 -2049.0  
274 8.9 12221.0 -2027.8  
  
275 9.0 12235.9 -2034.1  
276 9.8 12252.6 -2026.5  
277 8.5 12301.2 -2020.7  
278 9.8 12303.3 -2049.4  
279 9.8 12313.0 -2028.7  
280 10.0 12334.7 -2043.7  
281 10.0 12340.2 -2018.0  
282 8.8 12424.0 -2032.9  
283 9.6 12443.7 -2034.5  
284 9.3 12457.0 -2014.2

-20 374 1h50m

285 8.7 12522.2 -2021.1  
286 9.8 12557.8 -2019.5  
287 9.3 12608.6 -2046.3  
288 9.1 12612.1 -2030.5  
289 9.8 12625.2 -2027.6  
290 8.8 12626.3 -2050.9  
291 9.5 12630.2 -2042.3  
292 9.8 12636.7 -2003.4  
293 9.1 12713.3 -2001.9  
294 9.5 12740.4 -2049.3  
  
295 9.5 12819.5 -2045.0  
296 9.2 12934.2 -2021.7  
297 9.9 12955.3 -2018.0  
298 7.8 13015.4 -2006.5  
299 9.7 13042.2 -2047.0  
300 9.7 13045.0 -2038.0  
301 9.6 13150.4 -2004.0  
302 9.8 13151.4 -2049.4  
303 9.9 13213.9 -2044.7  
304 9.2 13244.5 -2026.5  
  
305 9.7 13321.8 -2011.6  
306 9.5 13322.4 -2059.3  
307 9.2 13332.3 -2052.1  
308 9.0 13333.7 -2022.3  
309 8.7 13342.0 -2049.8  
310 9.0 13403.9 -2015.1  
311 8.7 13421.6 -2040.3  
312 9.8 13426.9 -2042.2  
313 9.5 13448.9 -2017.0  
314 9.4 13452.1 -2034.1  
  
315 10.0 13454.6 -2028.0  
316 8.2 13534.5 -2005.1  
317 9.3 13536.0 -2058.7  
318 7.0 13540.9 -2054.5  
319 10.0 13544.1 -2026.5  
320 10.0 13559.9 -2017.0  
321 9.2 13607.1 -2025.0  
322 9.2 13614.7 -2043.6  
323 10.0 13626.3 -2039.2  
324 8.3 13635.4 -2008.1  
  
325 9.8 13643.3 -2037.5  
326 9.6 13707.2 -2031.0  
327 9.7 13725.1 -2026.9  
328 9.3 13735.5 -2008.4  
329 9.5 13751.3 -2046.8  
330 8.5 13751.7 -2052.7  
331 9.0 13751.5 -2046.4  
332 9.5 13843.2 -2030.2  
333 9.2 13845.9 -2036.6  
334 9.2 13927.7 -2058.8  
  
335 9.5 13933.3 -2021.1  
336 9.6 13950.2 -2042.8  
337 10.0 13952.5 -2044.5  
338 10.0 13953.1 -2033.4  
339 9.5 14010.7 -2011.5  
340 9.8 14042.2 -2052.4  
341 9.3 14104.3 -2056.8  
342 9.5 14158.4 -2020.9  
343 9.9 14219.9 -2058.5  
344 9.7 14233.9 -2056.0  
  
345 9.8 14238.9 -2021.0  
346 9.3 14245.4 -2022.1  
347 8.8 14259.1 -2001.7  
348 10.0 14320.0 -2026.4  
349 8.7 14325.6 -2036.0  
350 8.9 14327.8 -2055.1  
351 8.7 14329.4 -2045.9  
352 10.0 14402.5 -2022.0  
353 10.0 14403.8 -2041.6  
354 9.2 14431.7 -2038.5  
  
355 10.0 14506.3 -2007.5  
356 9.3 14528.7 -2034.9  
357 9.6 14547.1 -2030.8  
358 7.5 14556.4 -2013.4  
359 9.4 14619.6 -2030.1  
360 9.1 14642.0 -2017.6  
361 9.8 14647.8 -2054.0  
362 9.5 14650.9 -2027.0  
363 9.5 14713.2 -2036.2  
364 10.0 14747.2 -2007.1  
  
365 9.9 14751.6 -2056.8  
366 9.3 14810.8 -2013.1  
367 9.5 14822.2 -2058.1  
368 9.3 14851.6 -2053.0  
369 9.3 14926.0 -2009.4  
370 9.3 14928.1 -2025.8  
371 9.5 14945.7 -2034.6  
372 9.9 14957.0 -2029.2  
373 9.8 15028.2 -2052.3  
374 10.0 15037.2 -2033.7



-20 375 1h50m

375 9.4 15051.4 -2037.2  
376 9.5 15119.6 -2055.7  
377 9.1 15148.9 -2028.3  
378 8.7 15252.7 -2055.0  
379 9.9 15308.9 -2023.9  
380 9.8 15315.0 -2021.1  
381 10. 15342.1 -2035.0  
382 9.4 15345.8 -2057.2  
383 10. 15349.4 -2023.2  
384 9.5 15405.3 -2016.5  
  
385 9.1 15505.1 -2025.9  
386 9.5 15535.9 -2012.8  
387 9.8 15548.0 -2017.0  
388 9.0 15601.8 -2019.6  
389 9.5 15625.2 -2045.3  
390 9.5 15652.7 -2053.8  
391 8.9 15654.4 -2035.2  
392 8.8 15713.5 -2045.3  
393 8.3 15727.1 -2003.9  
394 9.8 15840.6 -2045.5  
  
395 9.4 15857.0 -2042.5  
396 8.9 15901.6 -2005.5  
397 10. 15910.4 -2057.4  
398 9.4 15958.8 -2024.5  
399 9.6 20001.8 -2023.7  
400 9.8 20011.0 -2030.8  
401 10. 20017.5 -2031.0  
402 9.8 20044.3 -2027.2  
403 9.5 20124.5 -2053.6  
404 7.3 20227.8 -2015.0  
  
405 9.5 20249.0 -2054.9  
406 8.7 20251.7 -2017.7  
407 8.8 20301.1 -2057.7  
408 8.5 20348.4 -2052.8  
409 10. 20411.5 -2029.6  
410 9.4 20445.9 -2003.4  
411 8.8 20448.4 -2015.1  
412 9.0 20502.3 -2006.3  
413 9.5 20605.2 -2010.3  
414 9.5 20620.0 -2005.8  
  
415 8.9 20622.5 -2045.9  
416 10. 20643.7 -2018.5  
417 9.6 20655.7 -2059.7  
418 6.6 20657.9 -2013.2  
419 9.5 20723.3 -2000.3  
420 10. 20742.4 -2017.0  
421 9.5 20744.6 -2051.5  
422 9.8 20843.6 -2044.5  
423 10. 20844.8 -2039.4  
424 9.2 20850.3 -2040.8  
  
425 9.2 20914.9 -2047.1  
426 9.1 20940.0 -2044.2  
427 9.8 20945.2 -2056.7  
428 9.8 21000.5 -2055.8  
429 9.3 21009.7 -2030.6  
430 9.8 21014.0 -2011.8  
431 9.4 21018.3 -2034.1  
432 8.0 21024.4 -2040.2  
433 8.6 21049.2 -2015.0  
434 9.5 21051.6 -2018.8  
  
435 9.3 21128.9 -2039.0  
436 9.3 21153.0 -2024.3  
437 7.2 21206.6 -2012.5  
438 8.3 21313.1 -2041.9  
439 9.1 21418.6 -2029.2  
440 6.7 21429.0 -2034.5  
441 8.9 21444.1 -2059.2  
442 9.8 21516.9 -2058.2  
443 10. 21537.7 -2048.2  
444 9.7 21606.6 -2038.9  
  
445 9.6 21712.0 -2047.0  
446 10. 21752.6 -2036.4  
447 8.1 21757.3 -2042.0  
448 9.0 21811.5 -2056.2  
449 9.4 21821.9 -2057.7  
450 9.0 21824.1 -2029.1  
451 8.8 21858.2 -2058.1  
452 9.0 21907.6 -2053.7  
453 9.3 21950.2 -2040.7  
454 9.8 21941.8 -2016.0  
  
455 6.0 21950.8 -2042.2  
456 9.8 22001.2 -2001.4  
457 9.8 22017.7 -2012.6  
458 9.5 22028.6 -2040.5  
459 10. 22039.3 -2019.0  
460 9.4 22041.9 -2023.8  
461 9.6 22114.7 -2010.1  
462 10. 22138.5 -2057.0  
463 7.8 22158.4 -2027.1  
464 9.9 22159.3 -2012.6

465 8.5 22213.1 -2038.3  
466 9.7 22216.6 -2036.5  
467 9.3 22221.7 -2022.6  
468 9.9 22301.0 -2053.0  
469 9.8 22406.2 -2014.6  
470 9.5 22447.3 -2040.4  
471 9.5 22502.9 -2032.1  
472 10. 22508.4 -2012.0  
473 10. 22526.2 -2035.4  
474 9.5 22537.6 -2023.5  
  
475 9.4 22548.3 -2006.9  
476 9.0 22552.9 -2048.9  
477 9.3 22613.2 -2058.6  
478 9.0 22629.6 -2017.9  
479 9.8 22639.0 -2008.7  
480 6.7 22658.8 -2038.1  
481 8.5 22704.6 -2015.0  
482 8.7 22722.8 -2039.2  
483 9.2 22829.3 -2022.7  
484 9.4 22835.4 -2039.2  
  
485 9.3 22856.7 -2024.5  
486 9.8 22902.2 -2031.2  
487 9.5 22904.2 -2011.7  
488 9.1 22907.9 -2031.4  
489 10. 22924.4 -2000.4  
490 8.9 22942.3 -2026.7  
491 9.0 22950.8 -2027.4  
492 7.2 23009.4 -2045.6  
493 9.7 23010.1 -2020.9  
494 9.3 23010.3 -2036.6  
  
495 8.9 23126.5 -2049.2  
496 9.5 23148.2 -2051.4  
497 9.4 23223.4 -2053.0  
498 8.2 23237.1 -2047.6  
499 9.4 23247.7 -2040.3  
500 9.3 23440.0 -2019.1  
501 9.0 23454.9 -2012.9  
502 8.8 23513.0 -2049.2  
503 9.4 23521.5 -2001.1  
504 8.9 23539.1 -2003.3  
  
505 9.0 23612.4 -2040.1  
506 7.5 23618.1 -2055.4  
507 10. 23710.4 -2002.1  
508 9.5 23733.3 -2039.5  
509 9.8 23802.6 -2019.1  
510 10. 23833.7 -2058.5  
511 8.9 23858.5 -2041.4  
512 9.2 23935.2 -2053.9  
513 10. 23937.8 -2012.4  
514 9.8 23937.9 -2016.6  
  
515 9.4 23955.2 -2002.6  
516 9.4 23955.6 -2047.1  
517 10. 24107.5 -2010.2  
518 8.6 24132.0 -2034.9  
519 9.4 24132.4 -2011.4  
520 9.8 24213.3 -2059.4  
521 9.9 24236.1 -2048.3  
522 9.8 24250.2 -2038.6  
523 8.6 24305.6 -2050.9  
524 8.2 24309.5 -2050.9  
  
525 10. 24318.0 -2035.0  
526 9.2 24337.7 -2005.1  
527 9.2 24340.2 -2005.2  
528 8.2 24353.5 -2043.6  
529 9.8 24356.0 -2034.7  
530 9.3 24423.4 -2048.4  
531 9.6 24448.9 -2052.5  
532 10. 24535.5 -2021.4  
533 9.2 24539.1 -2041.1  
534 8.8 24550.5 -2046.9  
  
535 9.2 24558.4 -2013.7  
536 9.8 24600.2 -2035.2  
537 10. 24631.4 -2050.6  
538 9.9 24638.6 -2023.9  
539 10. 24729.8 -2018.7  
540 8.5 24745.9 -2042.9  
541 9.6 24815.6 -2058.4  
542 9.2 24834.3 -2043.9  
543 9.9 24839.8 -2010.9  
544 10. 24941.2 -2008.3  
  
545 9.4 24901.3 -2022.5  
546 7.5 24905.1 -2021.0  
547 9.8 24922.0 -2013.1  
548 9.3 24930.2 -2026.2  
549 9.3 24933.9 -2047.7  
550 9.5 24941.7 -2025.4  
551 9.3 25010.8 -2001.8  
552 9.7 25030.6 -2011.5  
553 10. 25053.1 -2049.2  
554 10. 25103.2 -2000.2

555 10. 25106.1 -2003.0  
556 9.8 25108.1 -2040.2  
557 9.8 25115.5 -2008.4  
558 9.7 25132.5 -2040.9  
559 10. 25135.9 -2029.3  
560 9.6 25157.9 -2004.9  
561 10. 25240.0 -2037.0  
562 9.4 25246.3 -2040.1  
563 9.8 25247.8 -2014.4  
564 9.0 25319.5 -2004.2  
  
565 9.1 25324.3 -2020.7  
566 9.4 25326.4 -2027.1  
567 9.5 25406.6 -2006.6  
568 9.7 25430.6 -2042.1  
569 9.0 25449.0 -2034.5  
570 8.8 25541.0 -2028.8  
571 9.2 25542.7 -2040.7  
572 9.3 25611.9 -2017.5  
573 9.5 25624.0 -2023.3  
574 8.5 25640.7 -2010.3  
  
575 8.4 25646.3 -2047.7  
576 9.0 25700.8 -2009.6  
577 9.4 25714.1 -2000.2  
578 9.5 25808.5 -2053.0  
579 9.1 25921.3 -2057.8  
580 9.4 25922.4 -2008.0  
581 9.8 25932.5 -2013.1  
582 10. 30004.6 -2018.6  
583 9.5 30033.6 -2021.1  
584 10. 30102.4 -2037.4  
  
585 9.6 30118.8 -2021.5  
586 9.2 30125.2 -2008.0  
587 9.6 30131.2 -2000.2  
588 8.5 30142.7 -2058.5  
589 8.8 30142.9 -2014.6  
590 10. 30251.4 -2029.6  
591 7.9 30302.9 -2034.5  
592 7.5 30313.1 -2000.8  
593 9.5 30349.3 -2026.0  
594 8.9 30353.9 -2045.9  
  
595 9.4 30359.1 -2009.7  
596 7.2 30407.9 -2039.9  
597 9.8 30416.7 -2017.5  
598 9.8 30602.7 -2009.9  
599 9.4 30605.3 -2004.6  
600 9.5 30614.6 -2041.6  
601 9.4 30624.5 -2017.6  
602 9.5 30625.9 -2034.1  
603 9.2 30704.9 -2001.4  
604 9.1 30739.4 -2014.5  
  
605 6.7 30842.2 -2033.5  
606 9.7 30944.5 -2043.1  
607 9.5 30951.8 -2007.3  
608 9.7 31001.1 -2042.2  
609 8.9 31004.4 -2046.4  
610 9.3 31016.9 -2028.8  
611 9.5 31019.8 -2047.7  
612 9.8 31025.3 -2009.6  
613 9.8 31040.0 -2016.2  
614 10. 31108.8 -2044.2  
  
615 9.3 31133.3 -2015.8  
616 9.6 31213.2 -2029.5  
617 9.5 31230.4 -2009.7  
618 9.5 31256.5 -2013.8  
619 9.7 31350.6 -2048.7  
620 9.0 31353.5 -2014.7  
621 9.6 31402.0 -2021.4  
622 9.6 31404.1 -2050.3  
623 9.5 31419.9 -2006.6  
624 9.5 31509.5 -2014.7  
  
625 6.6 31510.0 -2050.9  
626 8.5 31528.8 -2033.6  
627 9.8 31609.3 -2003.2  
628 9.8 31629.0 -2019.7  
629 9.6 31641.4 -2034.7  
630 9.6 31711.7 -2021.1  
631 9.7 31752.2 -2050.2  
632 9.0 31810.8 -2049.4  
633 9.3 31823.1 -2050.4  
634 9.8 31842.0 -2019.5  
  
635 9.5 31848.6 -2015.8  
636 9.3 31906.5 -2051.1  
637 9.4 31913.7 -2024.2  
638 9.2 31951.9 -2032.8  
639 9.8 32019.4 -2030.7  
640 9.6 32023.8 -2004.4  
641 9.6 32034.9 -2031.7  
642 9.8 32054.4 -2050.4  
643 8.0 32116.5 -2018.8  
644 9.0 32128.8 -2044.1

645 8.5 32136.7 -2015.0  
646 9.0 32223.9 -2028.6  
647 9.5 32235.3 -2057.7  
648 7.0 32254.1 -2003.0  
649 8.9 32323.8 -2002.9  
650 8.9 32324.9 -2008.0  
651 9.5 32340.5 -2034.6  
652 9.4 32410.0 -2016.0  
653 9.4 32410.1 -2047.6  
654 9.2 32416.8 -2020.2  
  
655 9.2 32425.0 -2030.3  
656 9.3 32445.4 -2041.3  
657 9.8 32500.5 -2053.0  
658 9.2 32525.6 -2014.2  
659 8.0 32526.3 -2051.4  
660 9.4 32647.2 -2001.4  
661 8.6 32711.6 -2033.6  
662 9.1 32728.6 -2038.7  
663 8.3 32730.0 -2051.7  
664 9.8 32734.0 -2052.5  
  
665 9.4 32735.0 -2005.9  
666 9.5 32744.8 -2009.4  
667 10. 32802.4 -2050.7  
668 9.8 32803.2 -2035.7  
669 10. 32805.5 -2053.7  
670 10. 32806.8 -2025.9  
671 10. 32821.1 -2005.4  
672 9.6 32824.2 -2037.5  
673 8.9 32827.5 -2019.4  
674 9.2 32909.3 -2004.7  
  
675 9.4 32912.9 -2011.2  
676 8.7 32918.1 -2030.6  
677 8.2 32926.7 -2038.0  
678 10. 32933.1 -2041.8  
679 10. 33047.9 -2007.3  
680 8.5 33117.2 -2057.2  
681 9.2 33120.8 -2046.1  
682 9.3 33127.0 -2013.8  
683 9.8 33129.8 -2045.5  
684 7.3 33221.9 -2041.3  
  
685 8.5 33301.3 -2035.2  
686 6.5 33342.8 -2003.6  
687 6.6 33453.8 -2002.9  
688 9.4 33459.6 -2044.7  
689 9.5 33507.0 -2038.1  
690 8.5 33511.1 -2049.9  
691 9.5 33530.0 -2006.7  
692 9.3 33630.5 -2058.5  
693 9.6 33626.1 -2008.5  
694 9.2 33717.4 -2025.3  
  
695 9.5 33730.3 -2025.7  
696 9.2 33800.1 -2044.4  
697 9.2 33805.4 -2056.1  
698 10. 33842.1 -2000.9  
699 9.7 33852.1 -2046.0  
700 7.3 33855.0 -2058.3  
701 8.7 33904.6 -2042.0  
702 9.5 33941.4 -2009.8  
703 9.9 33953.6 -2001.5  
704 10. 34023.7 -2005.5  
  
705 9.2 34038.1 -2040.0  
706 9.8 34048.4 -2023.8  
707 9.4 34059.4 -2003.5  
708 9.7 34117.7 -2018.5  
709 10. 34119.2 -2019.1  
710 9.4 34129.4 -2002.2  
711 9.3 34132.5 -2032.5  
712 9.0 34135.7 -2006.4  
713 9.3 34144.3 -2016.2  
714 8.4 34159.0 -2051.6  
  
715 9.0 34204.6 -2059.8  
716 9.0 34259.5 -2022.5  
717 9.0 34310.8 -2008.6  
718 8.5 34320.3 -2051.8  
719 9.0 34326.1 -2029.8  
720 8.5 34348.1 -2013.5  
721 9.7 34355.3 -2008.4  
722 9.2 34400.6 -2033.8  
723 9.5 34408.1 -2026.8  
724 9.8 34457.8 -2049.1  
  
725 10. 34457.9 -2032.4  
726 9.5 34531.3 -2012.3  
727 8.5 34607.7 -2032.9  
728 9.8 34615.0 -2021.9  
729 9.2 34629.6 -2030.0  
730 9.0 34644.3 -2020.5  
731 9.5 34644.3 -2041.0  
732 8.8 34657.0 -2038.9  
733 9.5 34723.6 -2018.5  
734 9.8 34739.2 -2028.7

-20 734 3h47m



-20 735 3h48m

735 8.0 34811.5 -2053.1  
736 8.5 34819.5 -2014.7  
737 8.5 34824.4 -2055.4  
738 8.7 34828.2 -2023.1  
739 9.7 34843.0 -2058.1  
740 9.3 34908.9 -2019.6  
741 9.6 34918.7 -2033.2  
742 9.9 34933.4 -2059.9  
743 8.8 34948.2 -2000.7  
744 9.0 35008.3 -2045.3

745 9.5 35041.4 -2040.0  
746 9.7 35054.7 -2049.2  
747 9.7 35101.6 -2051.8  
748 9.2 35117.7 -2019.7  
749 8.6 35119.0 -2041.6  
750 9.5 35122.7 -2047.6  
751 9.0 35236.4 -2032.6  
752 9.7 35248.5 -2041.4  
753 9.3 35259.2 -2019.6  
754 9.3 35301.8 -2001.0

755 7.2 35302.0 -2044.8  
756 9.8 35305.6 -2008.9  
757 9.8 35400.7 -2054.6  
758 8.3 35429.4 -2044.5  
759 9.3 35439.7 -2003.7  
760 10. 35503.5 -2038.7  
761 9.8 35510.1 -2051.6  
762 7.8 35529.2 -2052.7  
763 9.3 35535.4 -2026.8  
764 9.5 35539.1 -2050.0

765 9.8 35613.1 -2055.3  
766 9.0 35620.8 -2017.4  
767 7.7 35631.7 -2054.6  
768 8.0 35646.2 -2054.5  
769 6.0 35701.0 -2032.5  
770 7.0 35713.0 -2033.3  
771 8.0 35725.6 -2037.2  
772 9.0 35737.0 -2030.8  
773 9.7 35747.9 -2050.4  
774 6.0 35817.9 -2046.4

775 9.8 35819.8 -2035.1  
776 9.7 35828.3 -2010.0  
777 9.8 35837.5 -2056.1  
778 9.3 35901.8 -2053.3  
779 9.1 35906.7 -2007.4  
780 7.0 35924.7 -2054.6  
781 9.7 35942.3 -2053.0  
782 9.1 40008.1 -2038.7  
783 9.7 40011.7 -2047.8  
784 9.0 40026.0 -2052.2

785 9.8 40032.9 -2014.7  
786 9.2 40115.8 -2055.4  
787 9.1 40128.4 -2001.8  
788 9.0 40151.2 -2034.6  
789 9.5 40151.7 -2016.6  
790 8.4 40203.3 -2052.6  
791 8.2 40218.6 -2027.1  
792 8.4 40243.7 -2039.5  
793 8.8 40256.4 -2048.3  
794 9.1 40309.0 -2043.0

795 9.8 40319.6 -2027.7  
796 9.5 40320.9 -2051.2  
797 9.8 40440.4 -2005.9  
798 8.7 40441.4 -2025.7  
799 9.1 40458.0 -2010.5  
800 8.6 40512.1 -2042.8  
801 6.1 40514.7 -2044.2  
802 9.1 40543.5 -2051.6  
803 9.6 40601.0 -2042.4  
804 9.1 40609.2 -2042.5

805 9.0 40623.6 -2017.7  
806 9.4 40629.8 -2044.8  
807 8.7 40636.9 -2013.4  
808 9.6 40640.8 -2028.2  
809 9.4 40738.5 -2009.2  
810 9.1 40740.1 -2001.4  
811 9.7 40814.3 -2044.6  
812 8.6 40849.0 -2021.2  
813 10. 40912.0 -2001.8  
814 9.5 40959.5 -2046.4

815 9.5 41031.4 -2004.9  
816 9.3 41054.8 -2018.0  
817 9.5 41058.5 -2041.0  
818 9.5 41117.4 -2027.7  
819 8.8 41125.2 -2014.3  
820 9.4 41142.9 -2004.1  
821 9.1 41143.1 -2056.7  
822 9.5 41200.8 -2022.3  
823 9.8 41214.7 -2009.8  
824 8.9 41217.7 -2040.9

825 10. 41243.9 -2025.7  
826 9.5 41256.4 -2049.2  
827 9.2 41315.0 -2038.4  
828 9.4 41329.9 -2014.7  
829 9.2 41333.5 -2013.3  
830 9.8 41355.4 -2023.9  
831 5.0 41419.3 -2059.1  
832 9.1 41427.2 -2055.1  
833 8.7 41437.0 -2009.9  
834 8.3 41455.6 -2031.6

835 9.3 41516.0 -2026.3  
836 9.5 41528.1 -2030.8  
837 7.8 41626.2 -2034.9  
838 9.8 41645.7 -2038.7  
839 7.8 41716.6 -2036.0  
840 8.8 41725.5 -2023.0  
841 8.3 41740.7 -2055.7  
842 8.3 41747.0 -2026.6  
843 8.8 41822.8 -2057.9  
844 9.6 41831.1 -2041.0

845 9.3 41839.0 -2022.3  
846 9.4 41849.4 -2059.7  
847 9.7 41935.1 -2021.3  
848 9.4 41938.6 -2018.3  
849 9.2 42000.9 -2056.7  
850 9.2 42001.1 -2039.7  
851 8.3 42104.3 -2041.9  
852 9.0 42141.8 -2033.2  
853 9.8 42142.7 -2009.0  
854 9.2 42202.6 -2045.2

855 9.7 42225.9 -2002.3  
856 9.5 42237.5 -2037.6  
857 9.4 42240.0 -2057.3  
858 9.5 42302.6 -2018.9  
859 8.5 42302.8 -2047.4  
860 10. 42330.6 -2000.9  
861 9.2 42334.2 -2009.9  
862 9.2 42344.6 -2058.9  
863 9.8 42346.4 -2051.5  
864 9.8 42427.1 -2004.3

865 9.5 42450.7 -2032.7  
866 9.4 42452.0 -2054.0  
867 9.2 42458.8 -2059.8  
868 9.8 42511.1 -2030.0  
869 9.1 42521.2 -2018.8  
870 9.0 42601.6 -2010.1  
871 9.3 42649.4 -2032.2  
872 8.8 42701.3 -2004.1  
873 9.8 42702.2 -2031.8  
874 9.1 42710.7 -2002.5

875 9.1 42729.5 -2048.0  
876 9.3 42742.8 -2007.7  
877 9.4 42813.5 -2037.8  
878 9.5 42814.2 -2003.5  
879 9.1 42814.3 -2034.7  
880 5.5 42839.2 -2013.4  
881 8.6 42902.7 -2021.7  
882 9.6 42906.4 -2059.8  
883 8.0 42930.3 -2018.5  
884 8.4 42935.9 -2028.6

885 9.3 42947.5 -2035.7  
886 9.5 42949.7 -2021.5  
887 8.6 43037.9 -2024.0  
888 9.4 43052.7 -2010.4  
889 9.0 43107.5 -2001.7  
890 9.8 43109.0 -2026.5  
891 8.3 43114.1 -2029.8  
892 6.8 43142.7 -2058.9  
893 9.7 43150.4 -2013.2  
894 9.1 43205.4 -2002.5

895 9.7 43225.8 -2047.0  
896 9.0 43243.3 -2001.0  
897 9.4 43253.5 -2002.3  
898 9.7 43253.7 -2025.6  
899 9.1 43256.5 -2023.9  
900 9.7 43319.6 -2008.3  
901 9.6 43321.4 -2034.2  
902 9.6 43374.8 -2028.5  
903 9.0 43328.4 -2011.2  
904 9.3 43330.2 -2021.3

905 9.6 43350.9 -2044.7  
906 8.8 43403.1 -2047.0  
907 9.8 43425.3 -2042.4  
908 9.2 43429.9 -2000.5  
909 9.4 43453.2 -2008.5  
910 8.8 43524.1 -2023.7  
911 9.8 43552.7 -2044.0  
912 9.7 43608.8 -2019.0  
913 9.8 43611.5 -2010.8  
914 9.3 43619.7 -2043.0

915 9.4 43627.7 -2003.5  
916 9.0 43630.9 -2025.5  
917 9.4 43634.1 -2044.9  
918 9.0 43635.1 -2003.7  
919 9.3 43710.2 -2058.1  
920 9.0 43720.8 -2018.2  
921 9.3 43723.0 -2037.0  
922 9.6 43723.9 -2056.3  
923 7.5 43730.4 -2037.8  
924 8.3 43828.1 -2016.9

925 8.0 43836.3 -2032.6  
926 9.1 43917.5 -2058.7  
927 9.5 43918.6 -2014.6  
928 9.6 43928.9 -2006.0  
929 9.4 43956.4 -2055.1  
930 10. 44001.2 -2046.3  
931 9.1 44008.1 -2017.9  
932 9.5 44044.3 -2052.9  
933 9.5 44103.1 -2019.6  
934 8.4 44123.9 -2039.2

935 8.8 44127.0 -2012.0  
936 9.5 44154.2 -2019.6  
937 9.6 44157.7 -2014.0  
938 7.7 44204.5 -2006.6  
939 8.3 44218.8 -2040.9  
940 9.2 44250.9 -2059.3  
941 9.5 44252.3 -2052.1  
942 8.9 44205.7 -2009.0  
943 9.5 44349.3 -2047.3  
944 9.6 44352.8 -2015.7

945 9.4 44456.0 -2031.6  
946 9.4 44505.9 -2045.0  
947 9.0 44534.2 -2039.3  
948 9.4 44627.2 -2011.8  
949 9.2 44628.4 -2041.1  
950 9.8 44630.2 -2007.1  
951 9.4 44631.2 -2039.8  
952 9.5 44643.8 -2041.2  
953 8.8 44651.4 -2031.1  
954 9.5 44657.9 -2050.2

955 9.0 44725.5 -2031.7  
956 9.5 44733.4 -2031.8  
957 9.5 44735.7 -2002.8  
958 9.8 44740.6 -2047.7  
959 9.8 44811.0 -2059.8  
960 9.4 44818.9 -2019.2  
961 8.4 44832.1 -2037.7  
962 9.8 44944.3 -2004.9  
963 9.6 44959.7 -2015.0  
964 9.0 45002.3 -2017.7

965 9.5 45011.6 -2006.1  
966 8.8 45024.4 -2042.1  
967 9.4 45025.5 -2022.0  
968 9.5 45106.3 -2044.6  
969 9.5 45112.1 -2031.2  
970 10. 45117.3 -2002.3  
971 9.8 45140.2 -2056.5  
972 8.8 45147.6 -2024.6  
973 9.5 45213.0 -2016.2  
974 9.3 45226.1 -2045.8

975 8.6 45228.7 -2046.3  
976 9.6 45247.5 -2033.1  
977 8.8 45255.6 -2052.3  
978 9.8 45322.6 -2041.9  
979 9.8 45357.7 -2057.5  
980 9.3 45414.4 -2042.0  
981 9.6 45419.7 -2046.4  
982 9.5 45421.7 -2002.4  
983 9.3 45422.1 -2006.1  
984 9.5 45430.6 -2039.2

985 9.7 45439.8 -2045.6  
986 9.0 45443.7 -2057.9  
987 9.8 45448.2 -2049.0  
988 9.0 45458.0 -2018.1  
989 9.0 45504.7 -2055.9  
990 5.3 45508.5 -2015.8  
991 9.5 45538.7 -2033.5  
992 9.2 45606.6 -2002.2  
993 9.7 45644.5 -2016.9  
994 10. 45700.7 -2038.6

995 9.5 45706.7 -2054.0  
996 9.5 45708.4 -2011.8  
997 8.9 45719.8 -2041.3  
998 9.6 45730.3 -2045.0  
999 9.4 45804.8 -2056.5  
1000 9.1 45811.5 -2039.7  
1001 9.1 45817.8 -2016.9  
1002 8.2 45818.2 -2031.9  
1003 7.2 45833.7 -2027.0  
1004 9.3 45837.9 -2047.6

-20 1094 5h21m

1005 9.4 45904.2 -2031.3  
1006 9.5 45935.9 -2000.4  
1007 9.0 50001.6 -2020.1  
1008 10. 50003.7 -2018.4  
1009 8.3 50019.6 -2047.9  
1010 9.5 50020.5 -2037.4  
1011 9.7 50033.7 -2054.9  
1012 9.7 50040.3 -2006.4  
1013 8.5 50042.8 -2018.5  
1014 9.9 50117.8 -2045.6

1015 7.3 50143.6 -2018.6  
1016 9.0 50250.3 -2021.8  
1017 8.5 50253.7 -2025.0  
1018 9.8 50307.0 -2039.1  
1019 9.7 50337.3 -2039.8  
1020 9.8 50409.2 -2050.3  
1021 9.3 50411.8 -2030.1  
1022 8.5 50412.4 -2016.7  
1023 9.8 50416.0 -2000.1  
1024 9.3 50422.3 -2030.0

1025 7.3 50429.4 -2055.8  
1026 9.4 50441.6 -2001.7  
1027 10. 50515.3 -2028.5  
1028 9.0 50522.2 -2020.3  
1029 9.5 50537.6 -2018.7  
1030 9.2 50553.6 -2049.2  
1031 9.3 50608.1 -2011.4  
1032 9.6 50619.3 -2028.8  
1033 9.4 50629.5 -2055.2  
1034 8.5 50639.2 -2045.5

1035 8.8 50640.7 -2018.3  
1036 8.1 50713.4 -2042.2  
1037 9.3 50719.8 -2038.4  
1038 9.8 50724.4 -2020.9  
1039 9.8 50750.3 -2041.8  
1040 8.8 50754.1 -2021.5  
1041 9.5 50758.7 -2010.6  
1042 9.4 50803.2 -2002.6  
1043 9.8 50825.8 -2052.9  
1044 9.6 50905.0 -2017.5

1045 9.2 50936.3 -2034.3  
1046 9.1 50949.7 -2055.3  
1047 9.0 51007.9 -2047.4  
1048 9.9 51014.0 -2016.3  
1049 9.3 51020.3 -2000.8  
1050 9.5 51021.0 -2016.1  
1051 9.0 51032.1 -2056.0  
1052 9.6 51040.7 -2045.0  
1053 9.0 51102.8 -2059.7  
1054 9.2 51113.0 -2027.1

1055 9.8 51122.4 -2039.1  
1056 9.5 51154.4 -2010.0  
1057 8.8 51246.2 -2001.4  
1058 10. 51257.5 -2045.0  
1059 8.5 51325.5 -2047.7  
1060 9.4 51343.4 -2009.6  
1061 9.0 51346.5 -2014.4  
1062 9.5 51415.6 -2018.8  
1063 9.2 51425.1 -2046.2  
1064 9.3 51428.3 -2047.2

1065 9.5 51527.2 -2023.8  
1066 9.2 51532.4 -2004.0  
1067 9.3 51540.2 -2041.0  
1068 9.4 51602.3 -2054.0  
1069 9.2 51611.8 -2025.5  
1070 7.6 51619.4 -2000.9  
1071 9.1 51620.6 -2011.0  
1072 9.5 51637.4 -2036.3  
1073 9.1 51645.2 -2041.5  
1074 9.5 51707.0 -2008.6

1075 9.1 51737.4 -2058.2  
1076 9.3 51738.3 -2029.7  
1077 7.8 51739.8 -2051.9  
1078 9.1 51807.8 -2043.7  
1079 8.9 51828.3 -2027.0  
1080 9.2 51830.2 -2023.4  
1081 8.8 51841.0 -2046.8  
1082 9.3 51845.6 -2010.2  
1083 9.7 51910.6 -2029.4  
1084 9.4 51953.2 -2055.6

1085 7.5 52011.2 -2050.6  
1086 9.6 52027.9 -2008.1  
1087 9.1 52040.8 -2001.3  
1088 9.4 52042.5 -2054.2  
1089 9.8 52108.0 -2059.3  
1090 9.1 52116.3 -2038.8  
1091 8.2 52138.4 -2055.8  
1092 9.5 52140.6 -2003.3  
1093 9.2 52143.7 -2029.0  
1094 9.1 52150.5 -2059.4



-20 1095 5h21m

1095 8.8 52156.1 -2031.4  
1096 3.0 52201.4 -2052.7  
1097 8.8 52203.5 -2001.0  
1098 9.3 52224.5 -2047.6  
1099 9.6 52236.6 -2022.9  
1100 9.3 52256.4 -2009.7  
1101 9.1 52303.1 -2039.9  
1102 9.5 52358.0 -2012.2  
1103 9.2 52414.4 -2007.9  
1104 9.7 52443.5 -2023.2

1105 6.0 52455.1 -2058.2  
1106 9.4 52513.6 -2036.6  
1107 9.8 52530.3 -2005.3  
1108 8.9 52604.3 -2019.0  
1109 9.2 52608.3 -2002.5  
1110 9.6 52614.9 -2012.9  
1111 9.5 52616.4 -2005.3  
1112 9.3 52619.2 -2042.7  
1113 9.2 52625.6 -2027.5  
1114 10. 52625.6 -2059.5

1115 9.5 52636.3 -2020.0  
1116 9.7 52642.2 -2014.5  
1117 9.5 52646.6 -2029.4  
1118 8.8 52652.7 -2031.2  
1119 8.5 52741.4 -2045.2  
1120 9.2 52759.5 -2008.6  
1121 9.5 52807.0 -2050.7  
1122 9.5 52839.1 -2013.5  
1123 9.5 52841.4 -2043.9  
1124 9.3 52923.9 -2048.3

1125 9.8 52924.8 -2035.4  
1126 8.2 52931.8 -2002.4  
1127 9.5 52950.0 -2011.4  
1128 9.5 52955.9 -2007.6  
1129 9.9 53006.6 -2019.0  
1130 9.9 53021.2 -2001.7  
1131 9.8 53042.1 -2022.4  
1132 8.7 53043.8 -2001.0  
1133 9.2 53057.3 -2036.2  
1134 10. 53104.6 -2018.1

1135 10. 53107.9 -2020.1  
1136 9.6 53110.2 -2042.4  
1137 10. 53155.9 -2040.8  
1138 8.2 53202.7 -2042.8  
1139 8.5 53203.5 -2015.5  
1140 9.8 53210.5 -2007.1  
1141 8.3 53229.0 -2011.8  
1142 9.5 53237.2 -2047.1  
1143 9.5 53253.1 -2012.6  
1144 9.5 53303.8 -2030.1

1145 9.1 53315.8 -2038.3  
1146 10. 53325.2 -2045.4  
1147 7.0 53331.3 -2031.6  
1148 9.3 53407.1 -2024.9  
1149 7.7 53424.7 -2002.4  
1150 9.0 53428.0 -2009.2  
1151 9.5 53448.5 -2038.5  
1152 9.7 53458.6 -2054.4  
1153 9.3 53506.1 -2050.4  
1154 9.8 53517.5 -2007.4

1155 9.3 53519.6 -2014.3  
1156 10. 53558.7 -2022.9  
1157 9.4 53558.9 -2034.8  
1158 9.4 53611.1 -2012.2  
1159 8.5 53619.6 -2013.5  
1160 9.3 53627.9 -2036.3  
1161 9.5 53642.2 -2041.7  
1162 8.3 53706.4 -2015.4  
1163 8.3 53706.8 -2044.1  
1164 9.1 53708.6 -2047.3

1165 9.2 53721.3 -2027.5  
1166 8.8 53724.2 -2025.5  
1167 9.8 53725.7 -2018.8  
1168 9.3 53745.9 -2042.4  
1169 9.1 53754.1 -2012.5  
1170 10. 53806.4 -2034.6  
1171 6.5 53813.9 -2011.6  
1172 9.0 53826.9 -2045.6  
1173 9.4 53834.2 -2046.8  
1174 9.5 53841.6 -2012.7

1175 8.7 53843.8 -2033.1  
1176 9.5 53849.3 -2032.2  
1177 8.5 53907.0 -2005.2  
1178 9.4 53910.1 -2016.4  
1179 9.8 53931.8 -2043.9  
1180 9.4 53941.4 -2033.9  
1181 9.7 53952.3 -2045.6  
1182 9.5 53955.7 -2017.4  
1183 10. 54000.4 -2036.4  
1184 8.5 54019.8 -2031.7

1185 9.4 54118.7 -2017.7  
1186 9.5 54140.1 -2003.4  
1187 9.1 54144.6 -2051.5  
1188 8.2 54154.1 -2004.5  
1189 9.8 54206.0 -2048.8  
1190 9.4 54208.9 -2030.5  
1191 8.7 54224.1 -2040.9  
1192 9.4 54225.0 -2046.0  
1193 8.5 54253.6 -2008.8  
1194 9.6 54255.5 -2003.7

1195 9.6 54300.8 -2007.2  
1196 9.4 54307.7 -2018.1  
1197 9.4 54310.7 -2022.5  
1198 9.8 54317.0 -2020.8  
1199 9.1 54319.9 -2006.7  
1200 9.2 54321.0 -2046.3  
1201 9.2 54330.1 -2054.1  
1202 9.8 54338.9 -2033.5  
1203 8.0 54341.3 -2023.5  
1204 9.1 54345.4 -2017.7

1205 9.1 54352.6 -2008.5  
1206 9.5 54405.8 -2052.3  
1207 9.2 54407.3 -2045.3  
1208 9.8 54457.3 -2022.8  
1209 9.5 54457.4 -2044.2  
1210 8.5 54504.0 -2020.6  
1211 4.3 54505.6 -2053.9  
1212 9.6 54520.9 -2053.9  
1213 8.6 54524.5 -2052.4  
1214 9.1 54550.4 -2013.1

1215 9.5 54607.4 -2036.2  
1216 9.4 54609.5 -2038.1  
1217 8.8 54624.4 -2050.1  
1218 9.2 54632.2 -2012.7  
1219 9.2 54642.3 -2044.9  
1220 9.5 54644.1 -2012.1  
1221 8.3 54714.6 -2010.8  
1222 9.8 54727.3 -2044.0  
1223 9.5 54747.4 -2027.0  
1224 9.5 54747.9 -2003.3

1225 9.0 54749.1 -2054.9  
1226 9.8 54821.6 -2053.8  
1227 9.4 54848.8 -2032.1  
1228 9.5 54852.7 -2059.2  
1229 9.0 54857.9 -2017.1  
1230 9.4 54907.5 -2005.7  
1231 9.3 54936.9 -2039.4  
1232 8.2 55010.3 -2003.4  
1233 8.8 55011.8 -2021.7  
1234 9.4 55021.9 -2007.6

1235 9.4 55041.3 -2002.3  
1236 9.0 55042.7 -2041.4  
1237 9.4 55105.7 -2027.9  
1238 9.1 55122.3 -2048.8  
1239 9.0 55127.8 -2033.3  
1240 9.4 55149.8 -2046.3  
1241 9.2 55211.3 -2040.0  
1242 8.0 55213.9 -2010.7  
1243 9.5 55215.9 -2042.4  
1244 8.7 55254.6 -2020.3

1245 9.2 55304.0 -2014.3  
1246 8.7 55305.4 -2035.3  
1247 9.5 55315.3 -2000.2  
1248 9.5 55324.0 -2048.4  
1249 9.3 55326.2 -2057.0  
1250 9.9 55326.9 -2052.5  
1251 9.7 55338.2 -2041.9  
1252 9.5 55341.8 -2027.8  
1253 9.1 55349.2 -2025.1  
1254 9.4 55354.0 -2000.8

1255 10. 55410.7 -2026.1  
1256 10. 55424.2 -2039.0  
1257 9.4 55432.5 -2035.5  
1258 9.2 55434.3 -2031.7  
1259 9.4 55507.2 -2025.9  
1260 8.0 55516.4 -2038.8  
1261 8.4 55600.1 -2001.6  
1262 9.8 55621.1 -2013.0  
1263 10. 55659.4 -2054.5  
1264 9.5 55657.2 -2019.8

1265 9.5 55700.7 -2005.8  
1266 9.8 55707.9 -2032.9  
1267 9.0 55708.6 -2051.3  
1268 9.5 55730.8 -2003.7  
1269 9.7 55745.4 -2050.0  
1270 9.3 55746.4 -2051.8  
1271 9.0 55754.6 -2037.1  
1272 9.4 55755.5 -2011.7  
1273 9.8 55819.9 -2041.8  
1274 9.2 55825.4 -2044.2

1275 9.0 55829.0 -2053.9  
1276 9.2 55821.2 -2006.4  
1277 9.0 55846.8 -2057.9  
1278 9.5 55913.3 -2059.5  
1279 8.8 55911.6 -2016.5  
1280 9.8 55917.1 -2010.8  
1281 9.1 55927.2 -2004.9  
1282 8.6 55939.9 -2039.6  
1283 9.5 60004.7 -2053.5  
1284 9.3 60041.6 -2039.3

1285 9.5 60121.7 -2039.2  
1286 9.0 60128.1 -2051.5  
1287 9.1 60138.9 -2033.1  
1288 9.5 60156.0 -2007.0  
1289 9.5 60201.9 -2035.1  
1290 9.4 60214.2 -2020.1  
1291 9.5 60214.8 -2006.9  
1292 9.4 60216.6 -2018.3  
1293 10. 60230.3 -2047.6  
1294 9.1 60233.8 -2051.0

1295 9.3 60241.5 -2012.6  
1296 9.4 60248.2 -2040.3  
1297 8.8 60300.6 -2039.7  
1298 9.0 60303.2 -2027.8  
1299 8.8 60308.4 -2054.0  
1300 9.1 60311.5 -2039.0  
1301 9.5 60313.4 -2003.7  
1302 9.0 60316.0 -2046.7  
1303 8.0 60332.8 -2028.4  
1304 9.8 60340.6 -2018.4

1305 9.8 60345.5 -2055.8  
1306 9.8 60358.4 -2049.3  
1307 9.1 60421.2 -2021.9  
1308 8.5 60426.7 -2019.1  
1309 9.4 60429.3 -2053.3  
1310 9.1 60439.6 -2021.6  
1311 9.1 60444.8 -2039.3  
1312 9.1 60474.4 -2051.0  
1313 9.0 60481.7 -2046.7  
1314 9.4 60444.1 -2011.2

1315 9.0 60454.9 -2031.0  
1316 8.7 60503.7 -2049.7  
1317 9.7 60521.4 -2006.9  
1318 9.2 60521.0 -2021.5  
1319 9.0 60531.3 -2028.2  
1320 9.7 60546.0 -2003.5  
1321 9.5 60553.2 -2053.1  
1322 9.5 60633.4 -2006.9  
1323 9.1 60652.5 -2020.2  
1324 9.9 60658.2 -2048.9

1325 9.4 60703.4 -2037.0  
1326 8.7 60708.9 -2036.8  
1327 9.1 60720.7 -2055.3  
1328 9.4 60734.7 -2043.8  
1329 9.5 60743.6 -2010.6  
1330 9.3 60751.3 -2057.8  
1331 9.8 60752.2 -2026.8  
1332 9.3 60801.3 -2041.1  
1333 9.8 60803.8 -2056.3  
1334 9.1 60818.9 -2017.4

1335 9.4 60819.0 -2009.5  
1336 6.3 60854.1 -2013.5  
1337 9.5 60901.4 -2049.1  
1338 9.5 60925.9 -2050.6  
1339 8.2 60927.0 -2009.2  
1340 9.8 60931.7 -2054.9  
1341 9.2 60936.6 -2042.1  
1342 9.5 60943.3 -2032.2  
1343 9.5 61005.4 -2032.4  
1344 9.4 61017.5 -2012.7

1345 8.0 61021.2 -2009.4  
1346 9.5 61024.4 -2047.6  
1347 8.3 61024.9 -2035.3  
1348 9.8 61050.3 -2052.5  
1349 9.1 61104.7 -2049.4  
1350 9.5 61139.8 -2023.7  
1351 9.8 61218.0 -2010.5  
1352 9.4 61219.1 -2033.2  
1353 9.5 61227.1 -2012.0  
1354 9.3 61230.8 -2029.3

1355 5.2 61247.7 -2051.7  
1356 9.5 61302.2 -2048.6  
1357 9.5 61309.0 -2013.4  
1358 9.2 61339.4 -2049.1  
1359 8.5 61345.3 -2028.2  
1360 10. 61401.3 -2037.9  
1361 10. 61420.6 -2017.3  
1362 8.8 61423.4 -2037.0  
1363 9.4 61436.0 -2008.6  
1364 9.4 61438.6 -2016.0

1365 8.9 61505.2 -2023.1  
1366 9.1 61522.9 -2045.8  
1367 10. 61543.7 -2051.4  
1368 9.1 61551.7 -2046.8  
1369 9.5 61556.3 -2001.4  
1370 9.5 61654.0 -2044.1  
1371 9.6 61657.5 -2041.4  
1372 9.2 61707.4 -2001.2  
1373 8.3 61719.2 -2052.1  
1374 8.1 61721.1 -2006.4

1375 9.1 61740.3 -2024.1  
1376 9.8 61812.9 -2040.4  
1377 9.6 61823.3 -2050.3  
1378 9.2 61833.4 -2019.9  
1379 8.7 61834.4 -2034.3  
1380 9.5 61847.8 -2014.6  
1381 9.8 61857.7 -2024.3  
1382 10. 61902.3 -2039.1  
1383 9.8 61902.8 -2059.1  
1384 7.3 61934.2 -2053.6

1385 9.1 61958.4 -2020.7  
1386 7.8 62008.0 -2005.6  
1387 9.5 62020.1 -2018.4  
1388 9.6 62021.9 -2035.0  
1389 9.0 62045.0 -2008.2  
1390 9.2 62049.0 -2049.9  
1391 9.8 62051.0 -2008.4  
1392 7.7 62058.2 -2019.8  
1393 9.5 62100.4 -2037.0  
1394 9.5 62109.0 -2007.0

1395 8.9 62114.8 -2051.1  
1396 8.9 62122.7 -2021.5  
1397 8.7 62126.6 -2017.2  
1398 10. 62129.4 -2048.7  
1399 9.6 62132.4 -2034.7  
1400 9.8 62140.6 -2047.2  
1401 9.8 62148.5 -2014.8  
1402 9.9 62206.1 -2048.5  
1403 9.3 62208.0 -2000.9  
1404 8.3 62224.7 -2006.1

1405 9.3 62228.9 -2003.9  
1406 9.5 62301.2 -2058.0  
1407 9.4 62307.0 -2012.2  
1408 9.5 62327.1 -2016.7  
1409 8.3 62337.9 -2008.3  
1410 9.5 62350.2 -2058.4  
1411 9.8 62351.8 -2045.1  
1412 9.4 62358.7 -2025.7  
1413 9.7 62400.9 -2034.4  
1414 9.5 62409.8 -2032.6

1415 9.0 62411.3 -2043.1  
1416 8.2 62508.0 -2031.6  
1417 9.4 62510.2 -2023.9  
1418 9.4 62515.7 -2033.8  
1419 8.7 62517.2 -2037.9  
1420 9.6 62520.1 -2018.5  
1421 9.1 62524.1 -2030.3  
1422 8.0 62526.7 -2057.9  
1423 9.7 62527.7 -2012.4  
1424 9.4 62540.6 -2001.8

1425 9.0 62545.6 -2011.2  
1426 9.5 62547.0 -2021.3  
1427 9.0 62547.2 -2057.8  
1428 9.4 62552.8 -2031.0  
1429 9.8 62553.9 -2043.4  
1430 9.5 62554.2 -2027.0  
1431 9.5 62612.6 -2041.8  
1432 7.2 62621.0 -2054.8  
1433 9.7 62636.2 -2057.6  
1434 9.6 62643.7 -2014.4

1435 9.6 62708.3 -2002.7  
1436 9.7 62708.4 -2004.9  
1437 6.6 62713.9 -2048.9  
1438 8.1 62717.9 -2002.1  
1439 8.7 62722.3 -2053.6  
1440 9.5 62739.7 -2014.7  
1441 8.8 62802.1 -2002.0  
1442 9.6 62802.9 -2015.4  
1443 9.5 62812.4 -2031.0  
1444 9.5 62825.7 -2019.2

1445 9.4 62826.2 -2005.8  
1446 7.0 62831.4 -2026.7  
1447 9.0 62834.7 -2040.3  
1448 9.2 62849.1 -2002.9  
1449 8.0 62900.4 -2017.0  
1450 9.5 62902.4 -2000.4  
1451 9.1 62905.6 -2041.2  
1452 9.2 62935.1 -2039.4  
1453 9.5 62942.0 -2008.5  
1454 9.5 62943.1 -2022.6

-20 1454 6h29m



-20 1455 6h30m

1455 9.2 63010.8 -2020.7  
1456 9.8 63018.1 -2011.9  
1457 9.0 63019.5 -2006.3  
1458 9.5 63020.7 -2001.2  
1459 9.7 63025.2 -2059.4  
1460 9.8 63026.9 -2031.7  
1461 9.2 63030.5 -2044.1  
1462 9.2 63031.2 -2015.9  
1463 9.5 63037.1 -2014.8  
1464 9.2 63047.8 -2023.0

1465 10. 63048.4 -2049.0  
1466 9.1 63055.4 -2026.8  
1467 9.2 63102.3 -2056.0  
1468 9.5 63104.3 -2053.6  
1469 9.0 63105.2 -2019.5  
1470 9.2 63110.4 -2027.9  
1471 9.8 63132.6 -2006.6  
1472 9.6 63136.0 -2009.1  
1473 9.5 63140.3 -2058.3  
1474 9.4 63203.8 -2020.3

1475 9.5 63212.4 -2059.8  
1476 9.9 63225.3 -2058.5  
1477 9.8 63242.6 -2011.6  
1478 9.8 63249.5 -2039.3  
1479 9.2 63249.8 -2023.8  
1480 9.5 63301.9 -2029.4  
1481 9.2 63301.9 -2059.0  
1482 9.3 63307.6 -2009.0  
1483 9.0 63319.0 -2030.9  
1484 9.1 63335.1 -2034.0

1485 9.5 63335.6 -2008.4  
1486 9.4 63346.7 -2043.5  
1487 10. 63354.4 -2057.8  
1488 9.5 63357.8 -2053.8  
1489 9.5 63401.0 -2033.2  
1490 8.5 63413.1 -2055.5  
1491 10. 63423.3 -2051.5  
1492 9.2 63425.2 -2042.3  
1493 9.7 63444.7 -2043.2  
1494 8.7 63510.7 -2043.0

1495 6.8 63514.1 -2010.6  
1496 9.0 63525.4 -2026.7  
1497 9.5 63528.0 -2007.3  
1498 7.3 63541.0 -2006.4  
1499 9.0 63544.9 -2025.8  
1500 9.4 63548.6 -2007.5  
1501 9.5 63550.6 -2031.6  
1502 8.8 63559.1 -2058.8  
1503 9.1 63608.0 -2043.3  
1504 9.8 63613.4 -2040.4

1505 9.2 63615.4 -2037.2  
1506 9.0 63616.9 -2026.1  
1507 9.5 63618.8 -2034.9  
1508 8.7 63646.4 -2000.8  
1509 8.7 63653.3 -2018.4  
1510 9.1 63658.8 -2019.7  
1511 10. 63703.6 -2045.9  
1512 9.4 63704.8 -2053.5  
1513 9.5 63711.3 -2022.7  
1514 9.3 63733.0 -2035.5

1515 9.1 63741.2 -2014.7  
1516 9.4 63803.9 -2053.1  
1517 9.3 63805.5 -2037.2  
1518 9.4 63808.9 -2025.4  
1519 9.4 63823.3 -2057.4  
1520 8.9 63824.4 -2015.8  
1521 9.6 63826.8 -2001.0  
1522 8.6 63828.0 -2018.4  
1523 9.6 63830.2 -2025.4  
1524 9.8 63852.1 -2038.6

1525 9.7 63852.4 -2031.7  
1526 9.1 63854.1 -2019.9  
1527 9.8 63854.1 -2016.5  
1528 9.7 63854.5 -2045.2  
1529 9.7 63901.8 -2048.7  
1530 9.8 63903.5 -2038.6  
1531 9.6 63903.6 -2025.0  
1532 9.5 63905.1 -2022.4  
1533 9.1 63910.3 -2016.8  
1534 8.9 63912.5 -2049.2

1535 8.6 63914.7 -2041.3  
1536 10. 63914.9 -2046.8  
1537 9.8 63918.4 -2027.3  
1538 8.8 63920.3 -2004.4  
1539 9.9 63920.7 -2050.8  
1540 9.2 63921.0 -2028.0  
1541 9.8 63922.0 -2016.2  
1542 9.3 63922.0 -2034.7  
1543 8.8 63922.1 -2032.1  
1544 9.2 63922.9 -2022.1

1545 9.0 63923.9 -2040.3  
1546 8.3 63926.7 -2032.5  
1547 9.4 63927.0 -2009.4  
1548 9.0 63928.4 -2032.4  
1549 7.8 63929.6 -2042.2  
1550 9.4 63930.0 -2029.7  
1551 8.4 63931.8 -2054.8  
1552 8.9 63936.1 -2042.7  
1553 9.4 63939.0 -2032.4  
1554 9.5 63940.5 -2034.3

1555 7.6 63944.0 -2037.7  
1556 9.5 63949.8 -2034.3  
1557 8.3 63950.5 -2027.1  
1558 9.7 63951.4 -2038.2  
1559 9.8 63953.1 -2033.2  
1560 8.1 63953.7 -2031.6  
1561 9.4 63959.2 -2045.3  
1562 8.8 64001.9 -2039.4  
1563 9.0 64002.5 -2036.5  
1564 9.4 64009.3 -2040.8

1565 9.4 64011.2 -2031.7  
1566 9.7 64012.4 -2030.4  
1567 9.7 64017.2 -2047.4  
1568 8.2 64019.8 -2039.6  
1569 9.0 64020.7 -2025.4  
1570 9.3 64020.9 -2033.5  
1571 9.8 64034.7 -2031.4  
1572 9.8 64035.8 -2038.7  
1573 9.8 64042.0 -2029.9  
1574 9.9 64048.8 -2044.2

1575 8.4 64048.8 -2031.1  
1576 6.0 64049.1 -2051.7  
1577 8.1 64053.2 -2056.9  
1578 9.1 64059.6 -2010.4  
1579 8.8 64106.5 -2008.8  
1580 9.8 64118.9 -2026.7  
1581 9.4 64119.8 -2037.9  
1582 9.1 64132.5 -2011.3  
1583 9.4 64152.4 -2026.7  
1584 9.4 64205.3 -2058.0

1585 9.3 64223.7 -2053.5  
1586 9.8 64225.0 -2035.3  
1587 9.1 64229.8 -2057.5  
1588 9.3 64233.2 -2014.8  
1589 9.0 64235.1 -2016.1  
1590 9.1 64247.9 -2030.4  
1591 9.8 64254.8 -2000.3  
1592 10. 64307.8 -2046.3  
1593 9.4 64310.6 -2009.6  
1594 9.0 64338.2 -2017.6

1595 9.5 64339.1 -2025.0  
1596 8.8 64340.3 -2055.5  
1597 9.5 64341.0 -2038.4  
1598 9.5 64407.5 -2010.3  
1599 9.0 64416.8 -2011.7  
1600 9.8 64422.2 -2049.4  
1601 9.0 64429.7 -2046.1  
1602 7.6 64431.4 -2040.3  
1603 7.5 64439.0 -2044.7  
1604 9.7 64503.1 -2047.4

1605 9.6 64504.3 -2006.8  
1606 9.5 64504.9 -2031.1  
1607 9.4 64516.5 -2006.3  
1608 9.5 64522.8 -2058.5  
1609 9.4 64527.4 -2057.6  
1610 9.8 64538.2 -2052.7  
1611 10. 64557.7 -2050.0  
1612 9.5 64606.0 -2035.7  
1613 9.5 64609.0 -2009.2  
1614 8.8 64619.5 -2040.2

1615 9.8 64645.3 -2021.7  
1616 5.4 64716.3 -2002.7  
1617 9.2 64720.7 -2019.6  
1618 9.5 64740.5 -2016.2  
1619 9.7 64743.8 -2039.7  
1620 9.5 64806.6 -2017.1  
1621 9.8 64810.8 -2028.7  
1622 9.8 64827.5 -2016.1  
1623 9.2 64846.8 -2029.5  
1624 6.8 64847.3 -2013.6

1625 9.1 64848.0 -2014.2  
1626 9.2 64857.5 -2046.8  
1627 9.4 64948.4 -2032.7  
1628 9.2 65001.9 -2011.5  
1629 9.5 65004.2 -2028.7  
1630 9.5 65004.8 -2018.2  
1631 9.5 65027.5 -2008.4  
1632 10. 65037.2 -2007.2  
1633 9.5 65038.6 -2057.7  
1634 8.2 65042.6 -2054.7

1635 9.8 65043.3 -2049.5  
1636 10. 65047.7 -2007.5  
1637 9.3 65050.2 -2010.5  
1638 9.6 65057.1 -2058.8  
1639 9.8 65105.5 -2046.0  
1640 9.3 65110.0 -2015.9  
1641 9.0 65117.2 -2046.9  
1642 8.0 65119.6 -2051.5  
1643 9.4 65124.6 -2018.0  
1644 9.5 65137.8 -2001.2

1645 9.2 65146.6 -2046.6  
1646 9.5 65156.9 -2035.2  
1647 9.5 65157.2 -2023.0  
1648 9.4 65201.3 -2003.3  
1649 9.6 65207.2 -2054.4  
1650 8.8 65207.8 -2020.0  
1651 9.9 65209.9 -2057.9  
1652 9.7 65217.6 -2051.0  
1653 9.7 65218.9 -2044.0  
1654 8.3 65228.7 -2025.8

1655 9.4 65249.3 -2028.7  
1656 10. 65250.5 -2048.0  
1657 8.5 65252.4 -2035.9  
1658 9.5 65252.7 -2027.2  
1659 9.6 65254.4 -2024.5  
1660 8.5 65301.7 -2058.5  
1661 9.3 65307.4 -2057.1  
1662 9.5 65323.3 -2006.6  
1663 9.1 65323.9 -2035.9  
1664 9.5 65327.1 -2040.4

1665 9.8 65332.2 -2021.8  
1666 9.0 65349.7 -2024.6  
1667 9.4 65405.1 -2055.5  
1668 9.5 65407.6 -2014.7  
1669 9.5 65411.1 -2047.7  
1670 7.5 65420.2 -2026.4  
1671 8.2 65425.4 -2028.5  
1672 9.1 65433.4 -2034.5  
1673 9.1 65435.9 -2057.0  
1674 9.4 65446.0 -2012.5

1675 9.0 65500.7 -2022.0  
1676 9.8 65503.5 -2016.2  
1677 9.5 65513.2 -2021.7  
1678 9.5 65527.4 -2010.8  
1679 9.8 65527.7 -2052.4  
1680 9.8 65528.0 -2004.3  
1681 9.8 65530.6 -2025.5  
1682 9.0 65532.4 -2045.2  
1683 10. 65533.7 -2021.2  
1684 9.5 65542.0 -2039.0

1685 9.5 65558.4 -2007.7  
1686 9.2 65618.3 -2027.6  
1687 9.0 65623.6 -2054.0  
1688 9.2 65624.1 -2046.6  
1689 9.2 65632.9 -2007.2  
1690 9.5 65644.5 -2049.2  
1691 8.7 65648.8 -2032.5  
1692 10. 65702.1 -2043.5  
1693 9.1 65706.4 -2027.1  
1694 9.1 65720.0 -2052.5

1695 9.1 65721.3 -2054.7  
1696 9.4 65723.5 -2032.9  
1697 9.5 65726.4 -2028.0  
1698 9.0 65728.4 -2012.8  
1699 9.1 65739.3 -2029.3  
1700 9.6 65743.9 -2046.3  
1701 9.8 65805.4 -2059.6  
1702 9.8 65813.1 -2054.8  
1703 9.7 65824.3 -2018.8  
1704 9.5 65837.0 -2018.8

1705 9.3 65837.6 -2059.5  
1706 7.3 65838.8 -2056.6  
1707 8.8 65842.7 -2050.6  
1708 9.5 65845.8 -2035.1  
1709 8.5 65852.2 -2030.0  
1710 9.7 65903.1 -2000.8  
1711 9.0 65908.9 -2011.8  
1712 10. 65913.8 -2045.0  
1713 9.8 65915.4 -2042.8  
1714 8.7 65926.8 -2034.5

1715 9.5 65930.0 -2043.8  
1716 10. 65932.7 -2048.5  
1717 10. 65933.1 -2058.0  
1718 9.8 65946.0 -2054.9  
1719 9.8 70001.2 -2050.9  
1720 8.9 70004.1 -2047.8  
1721 9.8 70024.1 -2029.6  
1722 9.5 70037.5 -2012.8  
1723 9.5 70050.2 -2004.9  
1724 9.8 70050.6 -2046.4

-20 1814 7h09m

1725 9.2 70051.6 -2010.4  
1726 10. 70057.5 -2039.1  
1727 8.4 70059.9 -2004.1  
1728 10. 70104.1 -2034.1  
1729 10. 70105.1 -2035.6  
1730 9.5 70107.6 -2041.4  
1731 9.8 70108.7 -2021.8  
1732 9.4 70111.3 -2040.1  
1733 9.4 70114.9 -2032.9  
1734 9.8 70119.3 -2039.9

1735 9.4 70119.3 -2046.0  
1736 10. 70138.2 -2032.4  
1737 9.5 70145.9 -2008.1  
1738 9.3 70150.4 -2019.1  
1739 9.1 70155.1 -2031.2  
1740 7.0 70206.6 -2037.9  
1741 9.8 70213.0 -2029.4  
1742 9.6 70220.9 -2004.4  
1743 9.5 70221.8 -2052.7  
1744 9.8 70226.1 -2033.0

1745 9.0 70227.3 -2044.5  
1746 9.1 70238.3 -2016.5  
1747 9.7 70238.6 -2009.6  
1748 9.8 70259.5 -2025.6  
1749 8.7 70304.8 -2036.9  
1750 9.7 70305.6 -2047.7  
1751 9.8 70325.8 -2017.0  
1752 9.1 70330.7 -2025.8  
1753 9.6 70336.9 -2010.5  
1754 8.8 70338.5 -2026.9

1755 10. 70343.7 -2057.4  
1756 9.5 70347.0 -2019.2  
1757 9.4 70357.6 -2054.8  
1758 7.8 70412.7 -2002.4  
1759 9.3 70436.3 -2006.4  
1760 9.7 70438.9 -2052.9  
1761 9.0 70446.7 -2003.1  
1762 9.6 70448.9 -2002.5  
1763 9.9 70501.7 -2002.5  
1764 10. 70503.6 -2046.0

1765 9.9 70508.6 -2026.7  
1766 9.6 70509.9 -2033.0  
1767 6.2 70526.1 -2038.7  
1768 9.8 70535.2 -2056.4  
1769 9.7 70541.7 -2009.3  
1770 8.9 70548.3 -2009.9  
1771 10. 70548.6 -2044.0  
1772 9.7 70550.0 -2024.9  
1773 9.8 70554.8 -2045.0  
1774 9.7 70602.0 -2013.1

1775 9.0 70604.9 -2022.2  
1776 9.5 70607.3 -2009.7  
1777 9.4 70610.5 -2005.5  
1778 9.0 70613.7 -2024.0  
1779 9.0 70615.6 -2049.3  
1780 8.8 70622.5 -2036.8  
1781 9.2 70637.8 -2046.3  
1782 8.2 70652.9 -2020.5  
1783 9.3 70655.5 -2037.9  
1784 9.7 70707.3 -2045.2

1785 9.0 70713.0 -2029.4  
1786 8.4 70714.5 -2052.9  
1787 9.5 70715.2 -2045.9  
1788 9.6 70722.0 -2021.4  
1789 9.3 70728.2 -2012.5  
1790 9.3 70731.8 -2011.3  
1791 9.1 70738.3 -2054.1  
1792 9.0 70739.5 -2016.9  
1793 9.4 70739.8 -2008.0  
1794 10. 70751.4 -2019.8

1795 8.9 70757.7 -2051.8  
1796 8.5 70807.3 -2040.3  
1797 9.7 70808.9 -2000.3  
1798 8.9 70811.3 -2051.6  
1799 9.3 70817.1 -2053.8  
1800 9.4 70817.7 -2046.0  
1801 8.9 70825.2 -2049.7  
1802 9.1 70832.0 -2012.3  
1803 9.5 70832.9 -2035.9  
1804 8.2 70833.1 -2046.4

1805 9.5 70841.4 -2022.3  
1806 9.1 70855.7 -2006.0  
1807 9.8 70902.5 -2030.4  
1808 10. 70904.8 -2031.2  
1809 8.9 70905.5 -2043.5  
1810 9.8 70907.2 -2037.1  
1811 10. 70923.3 -2059.1  
1812 10. 70923.3 -2037.1  
1813 9.8 70929.4 -2049.5  
1814 9.2 70933.6 -2005.9



-20 1815 7h09m

1815 9.8 70935.2 -2016.3  
1816 9.1 70940.2 -2016.1  
1817 9.2 70943.1 -2009.3  
1818 9.5 70943.5 -2057.0  
1819 9.2 70958.5 -2009.0  
1820 9.2 70958.9 -2055.7  
1821 10. 71002.4 -2022.0  
1822 9.2 71008.3 -2055.6  
1823 9.8 71019.8 -2015.0  
1824 9.3 71027.3 -2041.8

1825 9.8 71028.1 -2037.1  
1826 9.4 71040.0 -2037.9  
1827 9.6 71041.5 -2057.5  
1828 9.4 71049.1 -2008.1  
1829 9.5 71050.1 -2058.5  
1830 7.3 71050.1 -2055.7  
1831 9.5 71059.9 -2018.4  
1832 8.7 71109.1 -2012.4  
1833 8.3 71109.6 -2056.3  
1834 9.4 71113.2 -2048.5

1835 9.8 71117.7 -2002.5  
1836 9.4 71121.8 -2011.6  
1837 8.7 71125.1 -2037.9  
1838 10. 71139.3 -2009.1  
1839 9.4 71143.2 -2013.5  
1840 9.7 71145.2 -2040.0  
1841 9.5 71151.5 -2038.5  
1842 9.4 71151.9 -2021.2  
1843 9.2 71159.4 -2050.1  
1844 9.7 71201.9 -2025.2

1845 8.9 71203.8 -2037.4  
1846 9.1 71204.7 -2055.1  
1847 8.7 71206.5 -2020.4  
1848 9.7 71217.6 -2012.2  
1849 10. 71235.8 -2039.2  
1850 9.0 71249.9 -2022.0  
1851 8.9 71252.9 -2027.8  
1852 9.5 71257.6 -2002.0  
1853 10. 71315.6 -2059.9  
1854 9.7 71335.9 -2037.7

1855 10. 71336.2 -2051.7  
1856 9.9 71337.8 -2006.5  
1857 7.4 71347.5 -2026.0  
1858 9.1 71348.7 -2012.9  
1859 9.0 71350.9 -2028.3  
1860 9.3 71351.4 -2052.8  
1861 9.8 71355.0 -2022.3  
1862 10. 71407.1 -2046.8  
1863 9.7 71411.0 -2047.1  
1864 9.7 71414.8 -2031.2

1865 9.3 71417.8 -2013.4  
1866 9.2 71420.5 -2057.4  
1867 10. 71430.7 -2050.5  
1868 9.3 71436.5 -2042.9  
1869 7.8 71437.2 -2022.7  
1870 9.2 71444.7 -2041.9  
1871 9.8 71451.4 -2023.3  
1872 9.7 71453.7 -2027.6  
1873 9.7 71457.5 -2052.2  
1874 9.2 71457.9 -2030.1

1875 9.2 71458.8 -2002.2  
1876 9.5 71502.8 -2042.5  
1877 9.8 71512.7 -2049.8  
1878 9.8 71520.2 -2009.7  
1879 8.8 71525.6 -2015.6  
1880 9.7 71526.2 -2029.7  
1881 6.9 71528.8 -2008.1  
1882 9.8 71537.3 -2035.4  
1883 9.8 71542.8 -2048.7  
1884 9.8 71546.8 -2048.6

1885 9.5 71549.1 -2000.3  
1886 9.5 71553.0 -2000.5  
1887 10. 71601.9 -2031.3  
1888 9.1 71604.0 -2017.0  
1889 7.8 71606.1 -2013.7  
1890 9.2 71610.8 -2034.5  
1891 9.2 71619.7 -2038.4  
1892 8.8 71622.3 -2055.0  
1893 9.4 71625.9 -2053.1  
1894 9.2 71633.6 -2028.4

1895 9.4 71634.0 -2000.4  
1896 9.4 71636.5 -2036.3  
1897 9.8 71641.6 -2053.0  
1898 10. 71653.5 -2035.1  
1899 8.9 71654.6 -2031.2  
1900 9.5 71704.3 -2036.1  
1901 8.7 71709.8 -2024.7  
1902 9.2 71727.8 -2031.5  
1903 8.5 71736.2 -2025.7  
1904 9.9 71749.8 -2016.3

1905 9.8 71757.4 -2021.5  
1906 9.1 71803.8 -2049.7  
1907 9.8 71812.7 -2007.0  
1908 9.4 71815.2 -2019.5  
1909 9.5 71815.5 -2040.2  
1910 10. 71820.3 -2002.3  
1911 9.3 71824.6 -2030.4  
1912 9.3 71825.8 -2025.7  
1913 9.4 71827.4 -2039.0  
1914 9.4 71833.3 -2039.1

1915 8.7 71844.4 -2044.4  
1916 8.5 71846.2 -2052.9  
1917 9.1 71847.0 -2004.8  
1918 9.4 71849.1 -2043.9  
1919 7.3 71852.1 -2053.4  
1920 8.5 71856.1 -2044.3  
1921 9.8 71901.8 -2022.5  
1922 9.3 71909.8 -2008.2  
1923 9.7 71911.4 -2018.1  
1924 9.5 71913.0 -2003.1

1925 9.8 71914.5 -2054.1  
1926 10. 71917.9 -2028.1  
1927 9.7 71918.6 -2007.7  
1928 9.8 71919.3 -2045.5  
1929 9.5 71928.7 -2030.5  
1930 9.3 71930.3 -2036.8  
1931 8.0 71931.4 -2040.4  
1932 9.5 71933.1 -2048.7  
1933 9.3 71936.3 -2026.3  
1934 9.5 71940.0 -2059.3

1935 8.2 71953.3 -2006.8  
1936 7.3 71955.8 -2037.1  
1937 9.4 72003.6 -2036.4  
1938 9.7 72006.2 -2026.4  
1939 9.5 72007.3 -2048.2  
1940 9.2 72009.9 -2014.3  
1941 9.3 72011.9 -2042.4  
1942 9.1 72014.0 -2000.3  
1943 9.9 72024.2 -2026.4  
1944 9.4 72028.7 -2019.3

1945 9.5 72030.5 -2037.8  
1946 9.4 72042.0 -2036.9  
1947 10. 72049.6 -2006.9  
1948 9.5 72057.1 -2020.0  
1949 9.5 72103.8 -2029.7  
1950 9.1 72109.8 -2029.7  
1951 7.8 72117.9 -2051.5  
1952 9.5 72128.0 -2037.2  
1953 9.0 72135.9 -2012.3  
1954 9.8 72142.0 -2014.7

1955 8.8 72149.7 -2054.5  
1956 9.6 72157.4 -2046.7  
1957 9.5 72200.8 -2052.4  
1958 9.3 72214.7 -2052.3  
1959 9.8 72217.3 -2057.7  
1960 10. 72217.4 -2036.1  
1961 8.9 72223.4 -2021.2  
1962 9.4 72228.5 -2030.8  
1963 9.7 72240.4 -2058.6  
1964 9.5 72240.8 -2000.5

1965 9.2 72241.7 -2020.5  
1966 9.1 72245.2 -2034.7  
1967 10. 72259.3 -2021.0  
1968 9.1 72308.3 -2042.1  
1969 9.1 72309.3 -2000.9  
1970 9.6 72316.4 -2032.1  
1971 8.8 72339.0 -2030.2  
1972 9.8 72339.4 -2015.9  
1973 9.7 72348.3 -2011.0  
1974 10. 72349.2 -2020.4

1975 9.5 72354.6 -2012.4  
1976 10. 72358.3 -2047.1  
1977 9.6 72359.8 -2026.1  
1978 9.5 72407.7 -2049.7  
1979 9.5 72408.3 -2057.3  
1980 7.7 72409.8 -2030.6  
1981 9.8 72412.4 -2014.9  
1982 9.3 72427.1 -2010.4  
1983 9.2 72423.4 -2001.2  
1984 9.5 72428.9 -2038.4

1985 9.1 72431.6 -2042.6  
1986 10. 72435.4 -2039.7  
1987 9.8 72439.3 -2023.9  
1988 9.4 72448.4 -2013.0  
1989 9.4 72458.7 -2026.5  
1990 9.8 72502.9 -2052.7  
1991 9.0 72503.9 -2055.9  
1992 9.4 72505.1 -2026.6  
1993 10. 72512.7 -2025.2  
1994 9.6 72513.3 -2040.2

1995 9.5 72516.3 -2040.8  
1996 9.3 72516.5 -2051.4  
1997 9.8 72519.5 -2011.1  
1998 9.6 72525.3 -2053.0  
1999 8.0 72533.6 -2037.4  
2000 9.4 72543.9 -2059.8  
2001 9.8 72544.7 -2026.0  
2002 9.6 72545.0 -2049.1  
2003 8.3 72548.6 -2014.4  
2004 10. 72614.4 -2043.3

2005 9.7 72616.5 -2042.5  
2006 9.9 72620.1 -2027.3  
2007 10. 72620.9 -2021.4  
2008 9.4 72625.3 -2007.5  
2009 8.6 72628.4 -2028.8  
2010 9.3 72629.5 -2010.9  
2011 8.6 72630.0 -2036.1  
2012 9.3 72636.9 -2011.7  
2013 9.4 72641.3 -2026.8  
2014 9.3 72646.4 -2024.7

2015 8.7 72652.7 -2023.8  
2016 9.4 72652.8 -2019.8  
2017 9.1 72659.2 -2001.8  
2018 9.8 72703.9 -2057.7  
2019 9.4 72706.7 -2058.7  
2020 9.7 72712.0 -2049.9  
2021 9.4 72715.4 -2028.1  
2022 9.8 72718.3 -2043.4  
2023 9.7 72720.2 -2009.8  
2024 9.6 72729.6 -2018.1

2025 9.2 72735.4 -2030.2  
2026 9.2 72738.5 -2040.0  
2027 9.1 72747.4 -2024.3  
2028 9.5 72751.2 -2004.6  
2029 9.3 72753.2 -2034.4  
2030 9.2 72758.5 -2044.0  
2031 10. 72801.9 -2055.4  
2032 9.8 72807.5 -2011.5  
2033 8.8 72811.2 -2041.6  
2034 9.5 72813.4 -2006.1

2035 9.8 72815.3 -2017.1  
2036 8.8 72815.9 -2007.6  
2037 7.7 72818.0 -2059.6  
2038 9.1 72821.2 -2044.6  
2039 8.7 72826.5 -2040.3  
2040 9.3 72828.1 -2030.5  
2041 9.2 72844.1 -2020.4  
2042 9.4 72844.5 -2002.6  
2043 9.8 72851.3 -2052.2  
2044 9.3 72854.4 -2032.6

2045 9.7 72855.5 -2039.2  
2046 9.5 72859.1 -2033.4  
2047 10. 72906.7 -2025.8  
2048 8.5 72908.5 -2011.1  
2049 9.5 72913.8 -2057.3  
2050 9.5 72913.9 -2002.8  
2051 8.9 72916.5 -2013.0  
2052 9.3 72922.3 -2005.7  
2053 9.5 72938.7 -2046.1  
2054 9.8 72939.8 -2022.6

2055 10. 72943.8 -2022.1  
2056 9.8 72947.7 -2035.2  
2057 9.8 72950.9 -2016.9  
2058 8.8 72952.9 -2055.2  
2059 10. 72958.4 -2017.7  
2060 10. 72959.7 -2015.9  
2061 9.8 73006.7 -2021.5  
2062 9.3 73034.6 -2056.3  
2063 8.8 73036.4 -2035.9  
2064 9.2 73037.6 -2056.3

2065 8.6 73039.7 -2043.9  
2066 9.0 73040.4 -2035.1  
2067 9.0 73046.5 -2015.1  
2068 9.8 73046.8 -2013.2  
2069 9.5 73047.4 -2010.5  
2070 10. 73053.1 -2007.4  
2071 10. 73056.4 -2003.6  
2072 9.0 73059.8 -2017.2  
2073 9.8 73117.8 -2013.9  
2074 9.5 73121.9 -2001.2

2075 9.5 73127.0 -2021.7  
2076 9.8 73146.7 -2036.0  
2077 9.4 73152.6 -2025.3  
2078 9.7 73202.2 -2052.6  
2079 9.8 73203.4 -2038.2  
2080 9.3 73205.8 -2026.9  
2081 9.9 73213.7 -2031.9  
2082 9.6 73219.0 -2047.5  
2083 9.8 73220.6 -2033.6  
2084 8.9 73236.8 -2022.7

2085 9.8 73237.0 -2011.8  
2086 9.7 73252.3 -2037.3  
2087 9.0 73253.2 -2001.8  
2088 9.8 73303.6 -2052.8  
2089 9.4 73304.5 -2018.7  
2090 9.1 73307.4 -2020.6  
2091 9.5 73308.0 -2012.5  
2092 9.7 73315.2 -2052.4  
2093 10. 73319.0 -2052.5  
2094 9.9 73322.0 -2053.0

2095 9.6 73331.8 -2004.8  
2096 9.7 73334.1 -2056.1  
2097 9.2 73335.4 -2024.6  
2098 8.8 73344.1 -2029.0  
2099 9.6 73349.2 -2054.0  
2100 9.1 73349.4 -2057.8  
2101 9.2 73358.4 -2057.9  
2102 9.3 73360.2 -2013.8  
2103 9.9 73400.3 -2037.9  
2104 8.8 73409.8 -2041.5

2105 9.1 73413.6 -2024.8  
2106 8.8 73415.1 -2025.4  
2107 8.8 73419.2 -2053.9  
2108 9.4 73422.7 -2018.2  
2109 8.2 73423.3 -2037.3  
2110 9.5 73431.9 -2052.6  
2111 9.4 73435.4 -2057.0  
2112 8.7 73439.5 -2001.6  
2113 10. 73446.8 -2040.9  
2114 7.8 73451.9 -2055.1

2115 10. 73453.8 -2044.2  
2116 9.0 73458.6 -2001.6  
2117 8.7 73509.7 -2023.0  
2118 9.3 73511.3 -2009.4  
2119 8.7 73514.4 -2054.6  
2120 9.8 73519.7 -2024.0  
2121 9.8 73520.8 -2046.8  
2122 10. 73527.3 -2052.5  
2123 10. 73530.7 -2058.2  
2124 9.7 73531.8 -2047.4

2125 9.8 73537.3 -2047.7  
2126 9.8 73541.9 -2009.1  
2127 9.2 73552.0 -2044.6  
2128 9.2 73556.0 -2014.2  
2129 9.7 73606.3 -2017.1  
2130 9.7 73613.1 -2000.3  
2131 9.1 73617.3 -2021.2  
2132 9.3 73618.5 -2021.2  
2133 8.5 73627.2 -2001.6  
2134 8.9 73628.7 -2011.9

2135 9.8 73636.2 -2034.7  
2136 9.2 73638.3 -2045.8  
2137 9.8 73641.8 -2035.8  
2138 9.7 73655.2 -2022.0  
2139 9.6 73655.6 -2029.4  
2140 9.7 73656.6 -2044.1  
2141 9.8 73707.1 -2041.3  
2142 9.1 73708.4 -2030.0  
2143 9.5 73711.7 -2019.1  
2144 9.7 73712.5 -2009.2

2145 8.0 73718.0 -2056.2  
2146 9.3 73722.9 -2029.8  
2147 9.8 73726.8 -2007.6  
2148 9.7 73740.9 -2045.0  
2149 8.6 73742.9 -2041.6  
2150 9.8 73746.2 -2018.0  
2151 10. 73752.1 -2036.0  
2152 9.1 73813.9 -2039.8  
2153 8.9 73820.5 -2007.3  
2154 9.9 73823.3 -2050.0

2155 9.8 73830.6 -2001.6  
2156 8.7 73834.4 -2042.6  
2157 9.2 73838.6 -2021.7  
2158 9.8 73838.7 -2002.5  
2159 8.5 73852.7 -2028.0  
2160 10. 73902.2 -2050.0  
2161 9.8 73912.0 -2023.8  
2162 9.9 73912.2 -2044.6  
2163 9.8 73922.2 -2002.5  
2164 10. 73924.7 -2050.0

2165 10. 73926.1 -2042.2  
2166 8.5 73933.8 -2017.3  
2167 8.5 73934.8 -2020.4  
2168 9.3 73935.5 -2052.0  
2169 9.8 73937.7 -2037.1  
2170 10. 73939.9 -2003.4  
2171 10. 73943.2 -2024.8  
2172 8.5 73946.8 -2024.6  
2173 8.9 73949.9 -2052.4  
2174 10. 73950.6 -2017.6

-20 2174 7h39m



-20 2175 7h39m

2175 9.6 73952.1 -2030.4  
2176 9.7 73959.8 -2011.2  
2177 9.5 74005.1 -2026.2  
2178 9.7 74018.1 -2006.4  
2179 9.8 74021.9 -2002.6  
2180 10. 74023.7 -2045.9  
2181 7.2 74025.7 -2028.5  
2182 9.8 74036.6 -2009.5  
2183 9.3 74039.8 -2048.2  
2184 9.3 74046.1 -2029.2  
  
2185 9.2 74046.6 -2058.1  
2186 8.9 74058.0 -2022.8  
2187 9.8 74058.1 -2010.9  
2188 9.8 74059.4 -2005.9  
2189 10. 74104.3 -2041.7  
2190 9.2 74105.5 -2032.8  
2191 8.5 74108.2 -2025.9  
2192 9.7 74108.6 -2022.5  
2193 10. 74122.7 -2050.7  
2194 9.3 74129.3 -2030.9  
  
2195 9.3 74142.4 -2059.1  
2196 9.8 74146.5 -2047.3  
2197 9.2 74156.2 -2016.3  
2198 9.7 74156.2 -2038.6  
2199 9.5 74159.5 -2044.9  
2200 9.8 74202.1 -2037.4  
2201 9.9 74208.2 -2034.5  
2202 9.2 74210.8 -2038.3  
2203 9.5 74223.1 -2044.4  
2204 9.9 74229.7 -2010.5  
  
2205 9.7 74234.6 -2019.0  
2206 9.9 74243.6 -2032.3  
2207 9.6 74254.2 -2013.4  
2208 9.6 74256.1 -2012.8  
2209 10. 74300.4 -2018.0  
2210 9.5 74301.3 -2032.3  
2211 7.9 74312.8 -2055.0  
2212 9.2 74314.3 -2001.6  
2213 10. 74326.6 -2056.3  
2214 9.5 74326.7 -2011.1  
  
2215 9.5 74327.0 -2008.2  
2216 9.4 74331.1 -2007.1  
2217 9.3 74345.0 -2041.7  
2218 8.9 74348.5 -2028.6  
2219 9.2 74349.7 -2058.2  
2220 9.2 74402.7 -2023.4  
2221 9.7 74428.8 -2019.1  
2222 9.7 74429.0 -2005.0  
2223 10. 74433.2 -2051.8  
2224 9.5 74444.0 -2017.9  
  
2225 9.6 74452.2 -2058.3  
2226 9.4 74452.9 -2051.4  
2227 9.1 74459.6 -2034.0  
2228 9.2 74505.0 -2045.4  
2229 9.8 74509.8 -2041.8  
2230 9.5 74512.7 -2056.8  
2231 9.6 74514.2 -2058.6  
2232 10. 74521.5 -2046.5  
2233 9.2 74522.1 -2007.9  
2234 9.1 74524.0 -2050.7  
  
2235 5.6 74524.0 -2048.2  
2236 7.4 74528.0 -2020.9  
2237 9.5 74533.8 -2038.5  
2238 8.8 74536.3 -2055.2  
2239 9.8 74543.2 -2053.0  
2240 9.8 74549.1 -2047.1  
2241 9.3 74554.9 -2011.5  
2242 9.2 74558.0 -2006.1  
2243 9.4 74603.3 -2014.9  
2244 9.8 74604.8 -2028.1  
  
2245 9.3 74606.2 -2012.6  
2246 9.2 74607.1 -2024.9  
2247 9.0 74608.0 -2052.7  
2248 9.4 74616.4 -2005.2  
2249 9.8 74632.9 -2057.1  
2250 9.8 74635.4 -2005.0  
2251 8.7 74635.5 -2037.8  
2252 9.1 74640.7 -2010.5  
2253 9.2 74640.9 -2041.5  
2254 9.1 74644.8 -2059.3  
  
2255 9.8 74658.1 -2050.3  
2256 9.4 74702.9 -2012.6  
2257 9.4 74712.8 -2035.2  
2258 9.2 74716.6 -2033.0  
2259 9.4 74716.9 -2001.6  
2260 8.2 74736.8 -2039.6  
2261 9.3 74739.3 -2030.3  
2262 9.7 74742.4 -2058.5  
2263 9.4 74745.7 -2013.2  
2264 9.5 74813.1 -2031.6

2265 9.2 74814.2 -2007.4  
2266 9.2 74818.3 -2022.4  
2267 9.5 74825.1 -2057.6  
2268 9.8 74826.7 -2030.3  
2269 9.8 74832.0 -2054.8  
2270 9.4 74833.6 -2005.0  
2271 9.4 74836.1 -2007.4  
2272 9.5 74841.3 -2001.7  
2273 9.8 74847.8 -2032.8  
2274 9.5 74850.9 -2000.7  
  
2275 9.5 74900.7 -2057.9  
2276 2.1 74902.8 -2050.4  
2277 5.2 74924.6 -2015.7  
2278 5.2 74927.7 -2049.5  
2279 5.3 74928.0 -2023.5  
2280 5.3 74936.1 -2023.3  
2281 9.5 74944.9 -2007.0  
2282 9.5 74950.5 -2037.0  
2283 9.8 74950.9 -2028.3  
2284 7.1 74959.1 -2004.7  
  
2285 9.3 75008.1 -2036.3  
2286 9.7 75009.0 -2024.1  
2287 9.2 75010.2 -2028.2  
2288 8.3 75015.3 -2041.0  
2289 9.8 75020.8 -2005.4  
2290 9.7 75024.2 -2002.7  
2291 10. 75033.5 -2029.5  
2292 9.6 75035.2 -2040.1  
2293 9.8 75037.5 -2046.8  
2294 9.5 75048.0 -2031.2  
  
2295 9.4 75049.2 -2020.1  
2296 9.4 75059.9 -2049.5  
2297 9.4 75115.6 -2000.1  
2298 9.4 75120.0 -2000.1  
2299 9.7 75124.5 -2046.2  
2300 9.0 75127.7 -2007.7  
2301 9.2 75130.9 -2022.0  
2302 7.7 75131.8 -2002.2  
2303 9.7 75138.1 -2037.1  
2304 9.6 75142.8 -2037.9  
  
2305 8.5 75152.8 -2012.7  
2306 9.3 75204.0 -2000.7  
2307 9.4 75206.6 -2025.2  
2308 10. 75215.4 -2050.7  
2309 9.5 75218.2 -2000.5  
2310 9.5 75221.1 -2049.0  
2311 9.8 75222.9 -2024.6  
2312 10. 75224.6 -2013.4  
2313 9.3 75229.5 -2057.5  
2314 9.8 75231.0 -2026.7  
  
2315 9.8 75235.9 -2040.0  
2316 8.9 75239.7 -2051.5  
2317 9.0 75241.9 -2042.5  
2318 9.8 75242.2 -2004.0  
2319 9.2 75302.0 -2041.1  
2320 9.5 75303.6 -2017.7  
2321 9.7 75307.6 -2030.2  
2322 9.6 75309.0 -2010.9  
2323 9.8 75323.8 -2030.7  
2324 8.7 75325.7 -2003.4  
  
2325 9.8 75329.0 -2040.8  
2326 9.6 75330.0 -2036.1  
2327 9.2 75333.3 -2040.0  
2328 8.2 75341.6 -2056.2  
2329 9.1 75347.9 -2028.4  
2330 9.7 75402.4 -2041.5  
2331 9.7 75411.0 -2013.5  
2332 9.8 75412.8 -2010.5  
2333 9.2 75415.7 -2029.4  
2334 9.7 75421.3 -2034.3  
  
2335 9.7 75433.6 -2033.4  
2336 9.3 75440.6 -2003.8  
2337 9.0 75453.1 -2039.1  
2338 9.5 75506.0 -2035.6  
2339 10. 75506.9 -2050.7  
2340 8.7 75511.6 -2058.1  
2341 9.5 75512.3 -2006.7  
2342 9.4 75519.2 -2002.7  
2343 7.8 75523.3 -2045.7  
2344 8.5 75530.7 -2005.5  
  
2345 8.4 75535.6 -2017.6  
2346 9.1 75551.3 -2024.6  
2347 9.1 75553.4 -2019.2  
2348 9.7 75601.0 -2042.9  
2349 9.3 75602.4 -2026.7  
2350 8.8 75617.9 -2026.1  
2351 8.8 75620.1 -2017.3  
2352 9.3 75625.9 -2059.8  
2353 8.8 75632.2 -2004.0  
2354 9.4 75632.3 -2014.3

2355 9.5 75632.5 -2044.1  
2356 9.4 75638.6 -2008.4  
2357 9.5 75640.1 -2001.2  
2358 5.2 75643.7 -2042.7  
2359 6.3 75719.1 -2022.2  
2360 9.5 75732.8 -2027.2  
2361 9.3 75733.4 -2034.7  
2362 9.3 75734.0 -2029.7  
2363 9.4 75740.8 -2025.9  
2364 9.8 75743.2 -2010.8  
  
2365 7.3 75744.2 -2057.9  
2366 9.4 75746.3 -2019.2  
2367 9.8 75752.6 -2050.8  
2368 9.1 75755.3 -2055.9  
2369 9.1 75818.5 -2051.7  
2370 9.3 75828.8 -2051.1  
2371 9.3 75836.0 -2014.8  
2372 9.3 75848.1 -2007.6  
2373 9.8 75848.9 -2058.5  
2374 9.8 75853.8 -2022.4  
  
2375 8.7 75856.2 -2030.2  
2376 9.8 75909.2 -2019.1  
2377 9.3 75921.9 -2038.9  
2378 9.8 75923.3 -2024.1  
2379 10. 75923.7 -2015.1  
2380 8.2 75932.5 -2032.5  
2381 9.8 75938.9 -2035.3  
2382 8.7 75942.6 -2006.4  
2383 9.8 75947.8 -2055.7  
2384 9.3 75949.1 -2027.0  
  
2385 9.0 75954.9 -2012.1  
2386 9.0 80013.2 -2058.0  
2387 8.7 80017.2 -2007.2  
2388 9.8 80021.1 -2022.5  
2389 9.6 80031.2 -2024.3  
2390 9.8 80034.9 -2042.5  
2391 9.3 80042.3 -2052.6  
2392 9.4 80047.8 -2051.9  
2393 9.6 80047.9 -2008.2  
2394 9.3 80049.8 -2023.0  
  
2395 5.8 80054.2 -2007.9  
2396 8.9 80119.9 -2016.2  
2397 9.5 80129.1 -2028.8  
2398 9.0 80133.0 -2044.1  
2399 9.5 80152.8 -2006.6  
2400 9.6 80155.4 -2016.5  
2401 9.1 80202.2 -2006.2  
2402 9.0 80214.4 -2015.2  
2403 9.1 80230.5 -2018.5  
2404 9.7 80232.3 -2056.3  
  
2405 8.2 80238.4 -2004.6  
2406 9.7 80247.4 -2034.0  
2407 9.1 80248.5 -2041.6  
2408 9.1 80249.5 -2043.5  
2409 9.4 80253.7 -2052.2  
2410 9.3 80316.6 -2048.0  
2411 9.0 80326.8 -2022.7  
2412 9.4 80328.9 -2012.1  
2413 9.8 80334.2 -2047.4  
2414 9.5 80347.6 -2024.5  
  
2415 9.2 80355.8 -2023.8  
2416 9.0 80356.1 -2029.0  
2417 9.3 80403.3 -2000.2  
2418 9.2 80419.3 -2058.4  
2419 8.7 80420.3 -2013.9  
2420 9.7 80432.4 -2049.5  
2421 9.5 80432.5 -2020.7  
2422 9.2 80437.9 -2019.8  
2423 9.8 80441.5 -2005.0  
2424 9.5 80445.6 -2041.7  
  
2425 9.4 80453.2 -2046.7  
2426 9.5 80502.3 -2017.1  
2427 9.9 80503.5 -2055.5  
2428 10. 80515.8 -2042.8  
2429 9.4 80518.3 -2047.1  
2430 9.5 80531.1 -2056.8  
2431 9.4 80532.4 -2058.2  
2432 9.0 80537.6 -2019.5  
2433 9.4 80542.3 -2017.4  
2434 9.2 80544.3 -2015.9  
  
2435 10. 80601.6 -2028.1  
2436 9.3 80602.1 -2003.8  
2437 8.9 80609.7 -2036.5  
2438 9.5 80613.5 -2003.4  
2439 8.8 80613.7 -2036.1  
2440 9.3 80615.8 -2014.0  
2441 9.5 80633.2 -2051.5  
2442 9.3 80646.3 -2022.8  
2443 8.1 80648.8 -2048.4  
2444 9.7 80653.8 -2059.5

2445 9.7 80700.7 -2056.7  
2446 8.7 80705.6 -2008.5  
2447 9.1 80714.5 -2048.0  
2448 9.7 80716.9 -2048.3  
2449 8.7 80736.2 -2056.4  
2450 9.4 80741.9 -2021.7  
2451 9.0 80742.2 -2057.0  
2452 9.1 80810.0 -2041.9  
2453 9.5 80837.1 -2022.5  
2454 8.5 80843.1 -2054.1  
  
2455 9.5 80844.3 -2049.1  
2456 9.5 80847.0 -2041.3  
2457 9.6 80900.5 -2018.5  
2458 9.4 80915.2 -2016.5  
2459 9.8 80925.3 -2040.5  
2460 9.2 80930.3 -2005.9  
2461 9.7 80933.3 -2043.1  
2462 9.2 80943.0 -2040.8  
2463 10. 80958.4 -2048.3  
2464 9.7 81003.7 -2048.6  
  
2465 9.8 81011.9 -2002.3  
2466 8.3 81012.6 -2034.6  
2467 6.6 81031.0 -2052.5  
2468 9.8 81035.8 -2045.0  
2469 9.0 81038.5 -2007.1  
2470 9.0 81039.7 -2015.4  
2471 9.4 81047.9 -2034.7  
2472 10. 81054.6 -2049.7  
2473 9.5 81059.7 -2017.7  
2474 9.5 81105.6 -2048.8  
  
2475 9.1 81107.9 -2037.2  
2476 9.3 81126.0 -2048.3  
2477 9.0 81131.0 -2029.0  
2478 9.8 81154.8 -2057.8  
2479 9.3 81157.4 -2058.2  
2480 8.7 81218.4 -2005.6  
2481 9.1 81223.2 -2021.7  
2482 9.4 81233.8 -2004.1  
2483 9.8 81237.9 -2030.2  
2484 9.8 81252.4 -2006.8  
  
2485 9.8 81254.3 -2045.0  
2486 9.5 81301.7 -2042.7  
2487 9.5 81306.8 -2025.3  
2488 8.0 81308.6 -2047.7  
2489 9.2 81323.8 -2024.2  
2490 9.4 81330.0 -2008.6  
2491 9.1 81341.7 -2049.5  
2492 9.8 81400.3 -2059.8  
2493 9.3 81402.4 -2009.0  
2494 9.8 81416.7 -2057.0  
  
2495 9.2 81443.7 -2045.5  
2496 9.5 81501.0 -2012.2  
2497 9.5 81503.6 -2037.3  
2498 9.5 81504.0 -2059.3  
2499 7.2 81505.1 -2020.0  
2500 8.0 81517.5 -2013.7  
2501 9.5 81532.9 -2032.9  
2502 9.2 81541.0 -2005.0  
2503 9.5 81545.8 -2028.4  
2504 8.5 81548.9 -2054.5  
  
2505 9.8 81549.5 -2044.5  
2506 9.0 81552.6 -2022.2  
2507 8.5 81557.4 -2033.0  
2508 9.8 81627.0 -2049.7  
2509 9.4 81629.7 -2059.3  
2510 8.6 81630.5 -2018.0  
2511 8.9 81714.5 -2041.4  
2512 8.9 81715.6 -2036.1  
2513 9.5 81724.2 -2045.4  
2514 9.5 81724.9 -2012.2  
  
2515 9.0 81730.3 -2044.2  
2516 8.9 81730.8 -2022.5  
2517 9.0 81741.0 -2049.6  
2518 9.1 81802.2 -2016.4  
2519 9.5 81818.9 -2031.9  
2520 8.5 81838.2 -2059.9  
2521 8.7 81851.5 -2016.7  
2522 5.8 81863.4 -2034.5  
2523 9.4 81869.1 -2056.7  
2524 9.5 81935.8 -2012.9  
  
2525 9.2 81944.9 -2046.8  
2526 9.7 81945.6 -2026.9  
2527 9.4 81950.8 -2037.9  
2528 9.5 81952.0 -2054.2  
2529 9.2 82003.6 -2043.2  
2530 9.5 82008.3 -2010.4  
2531 9.3 82009.7 -2016.7  
2532 8.3 82020.2 -2032.3  
2533 9.4 82027.3 -2013.8  
2534 9.3 82055.9 -2008.3

-20 2534 8h20m



|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|------|-----|---------|---------|
| 2535 | 9.8 | 82056.5 | -2052.9 | 2625 | 9.0 | 83300.3 | -2025.0 | 2715 | 9.4 | 84823.5 | -2010.8 | 2805 | 9.7 | 90203.2 | -2030.8 |
| 2536 | 9.2 | 82057.6 | -2012.4 | 2626 | 9.2 | 83305.8 | -2000.1 | 2716 | 9.4 | 84827.4 | -2010.2 | 2806 | 9.7 | 90306.6 | -2006.7 |
| 2537 | 8.5 | 82059.4 | -2030.7 | 2627 | 9.5 | 83306.6 | -2051.8 | 2717 | 9.0 | 84852.4 | -2058.7 | 2807 | 9.8 | 90310.8 | -2011.0 |
| 2538 | 6.8 | 82107.5 | -2021.7 | 2628 | 9.5 | 83316.0 | -2012.9 | 2718 | 9.0 | 84926.0 | -2019.0 | 2808 | 9.0 | 90321.6 | -2008.1 |
| 2539 | 9.1 | 82113.1 | -2022.8 | 2629 | 8.3 | 83327.6 | -2053.4 | 2719 | 9.2 | 84932.1 | -2018.6 | 2809 | 8.2 | 90329.2 | -2049.5 |
| 2540 | 9.5 | 82121.1 | -2016.8 | 2630 | 9.4 | 83335.0 | -2044.2 | 2720 | 9.4 | 84943.3 | -2035.8 | 2810 | 9.3 | 90341.7 | -2029.2 |
| 2541 | 9.5 | 82130.6 | -2042.8 | 2631 | 9.0 | 83344.9 | -2016.5 | 2721 | 9.3 | 84959.7 | -2001.2 | 2811 | 9.0 | 90405.3 | -2004.9 |
| 2542 | 9.8 | 82131.0 | -2053.8 | 2632 | 8.2 | 83348.0 | -2007.5 | 2722 | 9.8 | 85009.1 | -2019.2 | 2812 | 9.6 | 90417.2 | -2036.5 |
| 2543 | 9.5 | 82132.5 | -2039.0 | 2633 | 9.6 | 83349.9 | -2020.2 | 2723 | 9.6 | 85012.3 | -2001.2 | 2813 | 9.8 | 90420.6 | -2048.9 |
| 2544 | 9.1 | 82138.4 | -2026.9 | 2634 | 9.5 | 83353.8 | -2049.5 | 2724 | 9.8 | 85042.2 | -2044.4 | 2814 | 10. | 90420.7 | -2035.4 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
| 2545 | 9.5 | 82148.1 | -2020.2 | 2635 | 7.8 | 83400.4 | -2029.6 | 2725 | 9.5 | 85046.5 | -2019.7 | 2815 | 9.5 | 90426.3 | -2005.5 |
| 2546 | 9.3 | 82153.3 | -2033.3 | 2636 | 9.7 | 83401.6 | -2018.7 | 2726 | 9.3 | 85052.5 | -2048.1 | 2816 | 9.5 | 90503.7 | -2043.9 |
| 2547 | 9.3 | 82224.0 | -2028.0 | 2637 | 8.5 | 83406.4 | -2047.1 | 2727 | 9.0 | 85104.5 | -2044.1 | 2817 | 9.9 | 90513.5 | -2017.7 |
| 2548 | 9.3 | 82226.6 | -2024.4 | 2638 | 9.8 | 83412.2 | -2022.9 | 2728 | 10. | 85137.4 | -2016.1 | 2818 | 9.8 | 90516.8 | -2022.9 |
| 2549 | 6.7 | 82227.4 | -2028.1 | 2639 | 7.8 | 83416.6 | -2019.1 | 2729 | 9.8 | 85156.3 | -2011.0 | 2819 | 9.8 | 90542.9 | -2011.8 |
| 2550 | 9.0 | 82228.2 | -2008.6 | 2640 | 9.5 | 83432.3 | -2049.8 | 2730 | 9.4 | 85202.5 | -2005.4 | 2820 | 10. | 90615.2 | -2009.6 |
| 2551 | 9.8 | 82239.6 | -2025.6 | 2641 | 9.1 | 83433.3 | -2012.9 | 2731 | 9.3 | 85202.9 | -2003.8 | 2821 | 9.3 | 90621.3 | -2017.1 |
| 2552 | 9.4 | 82249.3 | -2007.7 | 2642 | 9.5 | 83455.7 | -2027.6 | 2732 | 9.8 | 85205.1 | -2027.5 | 2822 | 9.7 | 90622.3 | -2024.3 |
| 2553 | 9.0 | 82250.5 | -2033.7 | 2643 | 9.8 | 83507.5 | -2037.0 | 2733 | 9.8 | 85205.8 | -2020.0 | 2823 | 9.8 | 90700.7 | -2025.8 |
| 2554 | 9.5 | 82255.4 | -2056.4 | 2644 | 9.5 | 83508.8 | -2004.0 | 2734 | 9.5 | 85235.3 | -2008.4 | 2824 | 9.0 | 90709.0 | -2046.0 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
| 2555 | 9.5 | 82257.1 | -2002.9 | 2645 | 9.6 | 83520.2 | -2056.1 | 2735 | 9.5 | 85235.6 | -2025.4 | 2825 | 9.8 | 90718.8 | -2015.3 |
| 2556 | 9.0 | 82303.9 | -2038.8 | 2646 | 9.5 | 83529.4 | -2033.9 | 2736 | 9.3 | 85237.0 | -2020.4 | 2826 | 9.5 | 90721.6 | -2037.9 |
| 2557 | 8.0 | 82306.8 | -2047.7 | 2647 | 9.8 | 83531.9 | -2047.3 | 2737 | 9.7 | 85238.5 | -2019.7 | 2827 | 9.0 | 90730.8 | -2000.5 |
| 2558 | 9.5 | 82326.7 | -2005.9 | 2648 | 9.5 | 83546.6 | -2022.1 | 2738 | 10. | 85239.5 | -2046.1 | 2828 | 9.5 | 90754.1 | -2029.1 |
| 2559 | 9.2 | 82336.1 | -2018.7 | 2649 | 9.0 | 83548.5 | -2049.9 | 2739 | 10. | 85240.2 | -2041.7 | 2829 | 9.6 | 90809.6 | -2036.8 |
| 2560 | 9.5 | 82336.9 | -2040.4 | 2650 | 9.0 | 83612.8 | -2051.9 | 2740 | 9.7 | 85243.8 | -2031.3 | 2830 | 9.5 | 90822.3 | -2035.7 |
| 2561 | 9.6 | 82342.3 | -2057.9 | 2651 | 9.0 | 83626.9 | -2009.7 | 2741 | 9.6 | 85307.5 | -2020.5 | 2831 | 9.4 | 90829.4 | -2025.4 |
| 2562 | 8.2 | 82344.9 | -2024.4 | 2652 | 10. | 83629.0 | -2040.3 | 2742 | 10. | 85308.2 | -2014.3 | 2832 | 9.2 | 90848.5 | -2033.6 |
| 2563 | 10. | 82347.6 | -2052.2 | 2653 | 9.5 | 83631.3 | -2026.9 | 2743 | 8.3 | 85313.9 | -2015.1 | 2833 | 9.8 | 90916.5 | -2027.3 |
| 2564 | 9.3 | 82354.6 | -2017.0 | 2654 | 9.5 | 83644.8 | -2053.3 | 2744 | 9.4 | 85317.7 | -2052.4 | 2834 | 10. | 90918.1 | -2048.7 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
| 2565 | 9.7 | 82355.2 | -2032.1 | 2655 | 8.7 | 83702.9 | -2035.1 | 2745 | 9.7 | 85320.5 | -2013.8 | 2835 | 7.5 | 90918.8 | -2055.1 |
| 2566 | 9.4 | 82358.1 | -2005.5 | 2656 | 9.5 | 83706.9 | -2033.7 | 2746 | 9.1 | 85325.8 | -2054.2 | 2836 | 7.7 | 90944.5 | -2035.6 |
| 2567 | 8.5 | 82401.0 | -2023.5 | 2657 | 9.9 | 83712.7 | -2013.7 | 2747 | 10. | 85329.7 | -2014.0 | 2837 | 9.0 | 90937.1 | -2039.9 |
| 2568 | 8.6 | 82410.1 | -2042.4 | 2658 | 9.4 | 83718.6 | -2029.0 | 2748 | 8.8 | 85339.9 | -2010.5 | 2838 | 9.5 | 90941.3 | -2014.5 |
| 2569 | 9.3 | 82417.8 | -2016.8 | 2659 | 9.5 | 83735.4 | -2055.6 | 2749 | 10. | 85344.8 | -2006.0 | 2839 | 9.5 | 90944.8 | -2058.7 |
| 2570 | 9.4 | 82433.2 | -2031.4 | 2660 | 9.1 | 83738.9 | -2012.5 | 2750 | 9.8 | 85358.9 | -2016.5 | 2840 | 9.6 | 90954.2 | -2017.9 |
| 2571 | 9.5 | 82437.4 | -2043.6 | 2661 | 8.9 | 83751.5 | -2018.8 | 2751 | 7.0 | 85405.6 | -2038.8 | 2841 | 9.6 | 91000.7 | -2044.7 |
| 2572 | 9.2 | 82442.3 | -2042.9 | 2662 | 9.1 | 83752.9 | -2024.9 | 2752 | 9.0 | 85409.5 | -2004.5 | 2842 | 9.0 | 91017.6 | -2058.8 |
| 2573 | 9.8 | 82503.6 | -2047.0 | 2663 | 9.7 | 83803.8 | -2058.0 | 2753 | 9.7 | 85415.9 | -2057.2 | 2843 | 9.8 | 91032.5 | -2036.8 |
| 2574 | 7.0 | 82506.5 | -2035.6 | 2664 | 9.8 | 83805.6 | -2043.2 | 2754 | 9.2 | 85416.0 | -2054.3 | 2844 | 9.0 | 91042.5 | -2027.4 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
| 2575 | 9.4 | 82516.1 | -2055.4 | 2665 | 9.3 | 83812.8 | -2054.6 | 2755 | 9.6 | 85431.2 | -2051.4 | 2845 | 7.7 | 91046.2 | -2043.7 |
| 2576 | 9.4 | 82517.3 | -2015.2 | 2666 | 9.1 | 83826.1 | -2057.0 | 2756 | 9.8 | 85446.9 | -2024.4 | 2846 | 9.3 | 91047.5 | -2035.4 |
| 2577 | 9.5 | 82524.5 | -2006.7 | 2667 | 6.4 | 83826.5 | -2038.3 | 2757 | 9.5 | 85457.3 | -2006.7 | 2847 | 9.7 | 91049.5 | -2034.5 |
| 2578 | 9.8 | 82529.8 | -2044.1 | 2668 | 8.5 | 83829.6 | -2008.5 | 2758 | 9.4 | 85462.3 | -2013.4 | 2848 | 9.8 | 91064.0 | -2006.6 |
| 2579 | 9.0 | 82532.9 | -2019.0 | 2669 | 9.7 | 83830.7 | -2000.8 | 2759 | 9.8 | 85472.7 | -2008.8 | 2849 | 9.8 | 91069.9 | -2050.9 |
| 2580 | 9.2 | 82539.8 | -2049.8 | 2670 | 9.8 | 83841.7 | -2002.8 | 2760 | 8.3 | 85477.0 | -2044.8 | 2850 | 9.5 | 91069.9 | -2027.5 |
| 2581 | 9.0 | 82540.6 | -2033.9 | 2671 | 8.7 | 83850.7 | -2012.9 | 2761 | 9.5 | 85485.6 | -2048.4 | 2851 | 9.4 | 91111.8 | -2025.1 |
| 2582 | 9.5 | 82545.0 | -2036.3 | 2672 | 9.0 | 83899.7 | -2051.6 | 2762 | 9.0 | 85485.4 | -2057.0 | 2852 | 9.8 | 91120.8 | -2022.6 |
| 2583 | 9.3 | 82546.6 | -2015.1 | 2673 | 9.1 | 83916.8 | -2008.4 | 2763 | 9.8 | 85495.9 | -2023.8 | 2853 | 8.7 | 91154.6 | -2059.4 |
| 2584 | 9.0 | 82602.1 | -2005.7 | 2674 | 9.6 | 83922.1 | -2044.9 | 2764 | 9.8 | 85559.5 | -2056.1 | 2854 | 9.2 | 91203.0 | -2041.0 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
| 2585 | 9.0 | 82604.4 | -2049.9 | 2675 | 9.4 | 83925.0 | -2031.7 | 2765 | 9.8 | 85605.9 | -2047.7 | 2855 | 9.3 | 91213.7 | -2013.6 |
| 2586 | 9.3 | 82641.3 | -2017.8 | 2676 | 9.3 | 84000.9 | -2001.2 | 2766 | 9.8 | 85632.1 | -2058.5 | 2856 | 8.5 | 91218.1 | -2010.7 |
| 2587 | 9.5 | 82647.1 | -2043.2 | 2677 | 9.5 | 84004.0 | -2035.0 | 2767 | 9.8 | 85632.4 | -2051.5 | 2857 | 9.9 | 91241.3 | -2023.4 |
| 2588 | 8.2 | 82743.7 | -2016.0 | 2678 | 9.5 | 84005.5 | -2008.0 | 2768 | 9.4 | 85641.8 | -2026.0 | 2858 | 9.3 | 91259.1 | -2007.3 |
| 2589 | 9.1 | 82744.8 | -2053.0 | 2679 | 9.4 | 84017.8 | -2044.3 | 2769 | 9.7 | 85647.8 | -2002.1 | 2859 | 9.6 | 91304.9 | -2008.3 |
| 2590 | 9.3 | 82748.9 | -2039.6 | 2680 | 9.3 | 84057.5 | -2008.4 | 2770 | 9.8 | 85651.7 | -2012.0 | 2860 | 9.4 | 91310.1 | -2027.6 |
| 2591 | 9.9 | 82753.5 | -2035.6 | 2681 | 9.2 | 84059.7 | -2033.9 | 2771 | 9.4 | 85658.2 | -2058.4 | 2861 | 8.8 | 91340.4 | -2044.9 |
| 2592 | 9.4 | 82757.8 | -2023.4 | 2682 | 8.3 | 84110.3 | -2015.4 | 2772 | 9.0 | 85658.4 | -2028.5 | 2862 | 9.8 | 91341.2 | -2005.0 |
| 2593 | 7.9 | 82759.1 | -2042.2 | 2683 | 9.6 | 84126.6 | -2001.2 | 2773 | 9.5 | 85659.0 | -2001.9 | 2863 | 9.8 | 91354.1 | -2048.7 |
| 2594 | 9.7 | 82800.6 | -2055.4 | 2684 | 10. | 84140.2 | -2014.3 | 2774 | 9.4 | 85705.6 | -2054.3 | 2864 | 10. | 91358.2 | -2021.9 |
|      |     |         |         |      |     |         |         |      |     |         |         |      |     |         |         |
| 2595 | 9.0 | 82807.6 | -2010.9 | 2685 | 9.3 | 84141.5 | -2027.2 | 2775 | 9.8 | 85736.9 | -2042.3 | 2865 | 9.9 | 91359.1 | -2029.8 |
| 2596 | 9.8 | 82808.2 | -2046.8 | 2686 | 9.8 | 84145.4 | -2046.0 | 2776 | 9.3 | 85741.1 | -2052.6 | 2866 | 9.9 | 91402.7 | -2018.7 |
| 2597 | 9.0 | 82810.5 | -2054.1 | 2687 | 8.9 | 84149.0 | -2048.9 | 2777 | 9.3 | 85743.8 | -2003.4 | 2867 | 9.9 | 91409.8 | -2026.3 |
| 2598 | 8.9 | 82818.8 | -2003.9 | 2688 | 9.4 | 84207.6 | -2013.7 | 2778 | 9.8 | 85806.5 | -2054.3 | 2868 | 8.3 | 91417.2 | -2027.1 |
| 2599 | 9.0 | 82822.9 | -2048.3 | 2689 | 9.7 | 84219.9 | -2010.6 | 2779 | 9.5 | 85807.4 | -2039.7 | 2869 | 9.7 | 91419.7 | -2025.9 |
| 2600 | 9.5 | 82823.6 | -2008.2 | 2690 | 9.1 | 84231.0 | -2042.1 | 2780 | 8.5 | 85816.0 | -2049.2 | 2870 | 10. | 91438.8 | -2051.0 |
| 2601 | 9.5 | 82825.8 | -2017.5 | 2691 | 9.5 | 84242.4 | -2021.9 | 2781 | 7.5 | 85816.3 | -2027.2 | 2871 | 9.5 | 91457.1 | -2008.4 |
| 2602 | 7.5 | 82826.4 | -2057.5 | 2692 | 9.1 | 84305.2 | -2001.5 | 2782 | 9.8 | 85823.6 | -2035.5 | 2872 | 9.3 | 91500.4 | -2049.3 |



-20 2895 9h18m

2895 9.2 91809.2 -2006.0  
2896 9.8 91816.8 -2004.7  
2897 9.7 91829.9 -2041.9  
2898 8.3 91838.4 -2008.7  
2899 9.8 91844.5 -2022.0  
2900 8.5 91844.7 -2028.7  
2901 9.5 91859.2 -2036.1  
2902 9.8 91908.2 -2036.3  
2903 7.2 91916.4 -2008.2  
2904 8.2 91955.4 -2005.8  
  
2905 8.7 92005.3 -2001.1  
2906 9.0 92019.5 -2049.9  
2907 8.5 92047.4 -2009.0  
2908 9.4 92103.7 -2056.0  
2909 9.4 92104.1 -2030.0  
2910 9.4 92117.6 -2034.5  
2911 9.5 92201.4 -2015.9  
2912 8.0 92202.1 -2010.3  
2913 9.8 92216.9 -2051.2  
2914 9.5 92228.9 -2009.9  
  
2915 5.7 92231.9 -2006.8  
2916 9.8 92240.5 -2027.5  
2917 10. 92248.0 -2045.2  
2918 9.4 92252.9 -2001.1  
2919 9.6 92323.0 -2041.0  
2920 9.0 92332.9 -2022.4  
2921 8.0 92350.4 -2020.8  
2922 10. 92410.0 -2036.6  
2923 8.8 92414.8 -2022.7  
2924 9.9 92417.3 -2038.6  
  
2925 10. 92419.2 -2013.6  
2926 9.1 92437.5 -2057.0  
2927 8.8 92440.2 -2004.9  
2928 10. 92446.5 -2034.1  
2929 8.3 92501.6 -2042.0  
2930 9.1 92520.2 -2055.2  
2931 8.7 92531.2 -2004.0  
2932 9.4 92533.7 -2033.0  
2933 10. 92552.0 -2035.0  
2934 9.1 92556.3 -2044.1  
  
2935 9.3 92612.0 -2056.9  
2936 5.0 92631.4 -2028.7  
2937 8.5 92632.1 -2004.6  
2938 7.0 92636.9 -2045.0  
2939 9.3 92711.4 -2053.3  
2940 9.1 92712.1 -2050.2  
2941 8.8 92725.5 -2025.6  
2942 9.0 92725.9 -2037.3  
2943 9.4 92729.1 -2042.6  
2944 9.3 92735.0 -2051.1  
  
2945 10. 92744.0 -2043.9  
2946 9.8 92753.3 -2024.8  
2947 9.8 92759.8 -2040.8  
2948 8.5 92800.6 -2027.4  
2949 10. 92812.7 -2026.0  
2950 9.8 92866.7 -2018.2  
2951 10. 92851.0 -2042.7  
2952 9.0 92856.7 -2021.7  
2953 9.8 92924.0 -2005.2  
2954 9.9 92926.1 -2021.1  
  
2955 8.0 92938.1 -2014.6  
2956 8.2 92941.8 -2049.3  
2957 9.8 92943.3 -2029.5  
2958 9.7 92958.0 -2000.0  
2959 10. 93002.7 -2035.1  
2960 9.3 93018.3 -2055.6  
2961 8.0 93026.1 -2045.2  
2962 9.8 93030.3 -2054.8  
2963 9.5 93038.8 -2037.5  
2964 9.2 93119.2 -2058.8  
  
2965 9.3 93122.4 -2044.5  
2966 9.4 93126.7 -2036.5  
2967 9.8 93133.7 -2030.6  
2968 9.0 93143.0 -2042.8  
2969 8.5 93148.5 -2016.5  
2970 9.8 93151.2 -2055.0  
2971 9.7 93208.3 -2002.1  
2972 9.1 93217.2 -2038.4  
2973 9.4 93218.6 -2024.1  
2974 9.1 93239.3 -2034.1  
  
2975 9.7 93241.7 -2035.6  
2976 9.2 93248.8 -2019.8  
2977 9.5 93310.4 -2055.2  
2978 9.3 93326.5 -2023.2  
2979 9.8 93345.6 -2043.4  
2980 9.3 93353.1 -2057.2  
2981 7.7 93356.6 -2055.2  
2982 9.0 93400.7 -2036.0  
2983 9.3 93419.9 -2039.9  
2984 9.8 93444.0 -2019.4

2985 9.6 93446.8 -2011.0  
2986 9.3 93455.3 -2050.2  
2987 9.8 93457.6 -2027.2  
2988 9.5 93500.1 -2042.0  
2989 9.8 93510.4 -2022.0  
2990 9.0 93516.9 -2015.4  
2991 9.7 93517.7 -2023.4  
2992 7.7 93544.5 -2028.3  
2993 8.7 93602.4 -2019.2  
2994 9.9 93602.6 -2009.3  
  
2995 9.0 93618.4 -2015.8  
2996 9.5 93622.5 -2040.0  
2997 9.5 93639.3 -2050.0  
2998 9.0 93651.2 -2055.5  
2999 9.5 93655.4 -2040.1  
3000 8.2 93701.3 -2029.8  
3001 9.5 93720.7 -2005.3  
3002 10. 93739.3 -2050.1  
3003 9.8 93745.2 -2005.7  
3004 9.5 93806.9 -2007.0  
  
3005 9.8 93808.8 -2014.9  
3006 9.3 93816.7 -2039.2  
3007 9.8 93820.6 -2018.1  
3008 9.8 93820.6 -2009.2  
3009 8.2 93831.3 -2000.3  
3010 9.8 93840.9 -2050.4  
3011 10. 93842.1 -2038.2  
3012 10. 93858.5 -2041.5  
3013 9.1 93903.4 -2021.4  
3014 9.2 93919.9 -2042.0  
  
3015 9.4 93950.9 -2054.2  
3016 9.8 93954.8 -2046.9  
3017 9.6 94008.9 -2057.9  
3018 9.4 94051.4 -2008.3  
3019 9.8 94055.0 -2021.5  
3020 9.8 94131.0 -2052.5  
3021 8.7 94209.1 -2041.2  
3022 8.5 94217.1 -2045.7  
3023 9.8 94225.7 -2047.5  
3024 9.0 94239.4 -2048.5  
  
3025 9.1 94247.0 -2036.9  
3026 8.5 94315.2 -2027.5  
3027 9.6 94320.8 -2056.1  
3028 9.1 94323.5 -2034.0  
3029 9.7 94335.6 -2046.0  
3030 9.8 94338.4 -2047.5  
3031 8.8 94354.9 -2024.2  
3032 8.0 94358.2 -2005.6  
3033 8.1 94404.3 -2047.4  
3034 9.3 94406.5 -2045.0  
  
3035 9.4 94409.0 -2011.8  
3036 7.8 94416.6 -2023.5  
3037 9.9 94427.9 -2007.2  
3038 9.4 94559.8 -2022.1  
3039 9.4 94600.9 -2036.8  
3040 8.8 94628.1 -2007.2  
3041 9.4 94633.9 -2045.8  
3042 8.8 94640.3 -2021.2  
3043 9.1 94708.2 -2023.0  
3044 9.4 94711.8 -2027.0  
  
3045 9.3 94727.6 -2008.4  
3046 10. 94731.1 -2005.3  
3047 9.5 94801.7 -2021.8  
3048 9.8 94843.1 -2005.5  
3049 7.7 94858.2 -2003.6  
3050 9.8 94907.7 -2010.2  
3051 8.7 94907.8 -2048.4  
3052 8.2 94946.7 -2034.3  
3053 9.0 94953.5 -2009.6  
3054 9.7 94956.7 -2002.0  
  
3055 9.5 94957.4 -2044.2  
3056 10. 95025.2 -2044.7  
3057 9.7 95039.6 -2032.5  
3058 9.4 95052.9 -2043.9  
3059 7.7 95058.7 -2025.3  
3060 9.6 95108.4 -2047.7  
3061 9.0 95135.0 -2052.4  
3062 9.1 95142.1 -2018.4  
3063 9.0 95145.1 -2032.3  
3064 9.8 95200.6 -2032.1  
  
3065 9.0 95216.0 -2058.6  
3066 9.0 95255.9 -2052.4  
3067 9.9 95331.9 -2003.6  
3068 9.9 95333.1 -2026.4  
3069 9.3 95341.1 -2039.9  
3070 9.7 95351.6 -2038.8  
3071 9.1 95407.3 -2042.0  
3072 9.4 95419.5 -2027.2  
3073 9.7 95449.8 -2059.6  
3074 8.7 95452.9 -2016.2

3075 9.5 95504.9 -2022.1  
3076 9.2 95517.5 -2001.8  
3077 9.8 95518.4 -2019.2  
3078 9.0 95520.8 -2051.9  
3079 8.8 95522.8 -2008.7  
3080 9.0 95526.0 -2031.3  
3081 9.9 95540.8 -2009.6  
3082 9.1 95554.4 -2020.5  
3083 8.6 95604.8 -2008.2  
3084 9.7 95608.7 -2001.7  
  
3085 9.4 95609.5 -2000.1  
3086 9.7 95612.9 -2021.9  
3087 9.5 95619.1 -2045.6  
3088 7.7 95623.9 -2013.9  
3089 9.0 95629.5 -2028.0  
3090 10. 95657.0 -2036.8  
3091 9.8 95740.2 -2058.1  
3092 8.3 95809.2 -2055.9  
3093 9.3 95818.1 -2001.9  
3094 8.4 95830.7 -2039.3  
  
3095 8.9 95835.6 -2022.7  
3096 9.0 95835.9 -2045.8  
3097 9.0 95854.2 -2053.3  
3098 9.7 95856.9 -2037.0  
3099 9.3 95916.4 -2039.3  
3100 9.3 95917.2 -2033.7  
3101 7.2 95918.8 -2014.5  
3102 8.4 95942.3 -2034.8  
3103 9.3 95945.5 -2018.7  
3104 7.0 100017.2 -2032.8  
  
3105 9.8 100020.3 -2026.1  
3106 9.7 100041.6 -2036.2  
3107 9.8 100044.3 -2007.7  
3108 9.3 100046.3 -2002.2  
3109 9.2 100107.1 -2004.7  
3110 9.8 100126.9 -2022.2  
3111 9.4 100140.3 -2057.1  
3112 9.0 100141.1 -2040.3  
3113 9.4 100143.4 -2042.2  
3114 9.6 100152.9 -2027.9  
  
3115 8.8 100233.0 -2057.7  
3116 8.2 100257.0 -2058.0  
3117 9.4 100323.7 -2013.1  
3118 9.9 100340.5 -2032.1  
3119 9.9 100342.5 -2057.1  
3120 8.4 100416.3 -2006.0  
3121 9.9 100421.7 -2018.0  
3122 9.0 100438.0 -2047.9  
3123 8.9 100456.2 -2017.0  
3124 8.0 100505.3 -2033.7  
  
3125 9.1 100543.2 -2023.2  
3126 9.4 100555.9 -2003.9  
3127 9.4 100605.3 -2035.9  
3128 10. 100614.2 -2027.4  
3129 9.0 100706.0 -2011.7  
3130 9.3 100721.6 -2021.3  
3131 9.6 100755.1 -2013.7  
3132 9.3 100831.2 -2057.9  
3133 9.5 100835.9 -2031.5  
3134 9.7 100842.2 -2046.8  
  
3135 9.2 100849.1 -2033.2  
3136 10. 100909.7 -2053.9  
3137 9.7 100919.5 -2016.7  
3138 9.7 100921.5 -2016.8  
3139 9.8 101033.4 -2009.2  
3140 9.7 101034.5 -2023.5  
3141 9.7 101034.5 -2031.3  
3142 9.9 101047.3 -2041.5  
3143 7.0 101048.2 -2051.7  
3144 9.7 101049.0 -2047.6  
  
3145 7.0 101100.0 -2018.2  
3146 9.1 101138.4 -2047.6  
3147 10. 101217.4 -2003.1  
3148 9.0 101303.0 -2037.1  
3149 9.5 101306.8 -2048.4  
3150 8.5 101309.9 -2029.7  
3151 10. 101332.7 -2003.6  
3152 9.7 101342.6 -2040.3  
3153 9.3 101344.3 -2028.4  
3154 9.7 101352.2 -2058.2  
  
3155 9.6 101408.3 -2018.1  
3156 9.0 101420.8 -2019.7  
3157 8.7 101421.8 -2009.0  
3158 9.7 101449.9 -2050.0  
3159 9.8 101450.6 -2040.4  
3160 9.5 101503.8 -2036.3  
3161 7.8 101515.9 -2032.7  
3162 9.8 101545.2 -2032.9  
3163 9.3 101604.8 -2035.3  
3164 10. 101651.3 -2011.6

3165 9.2 101653.6 -2054.3  
3166 9.8 101704.1 -2050.6  
3167 10. 101706.0 -2046.5  
3168 9.8 101725.1 -2043.1  
3169 8.4 101748.8 -2047.2  
3170 10. 101800.5 -2017.6  
3171 9.2 101827.6 -2022.3  
3172 9.9 101832.9 -2044.5  
3173 9.4 101909.6 -2015.8  
3174 8.7 101923.0 -2015.4  
  
3175 9.7 101927.0 -2042.5  
3176 10. 102005.4 -2059.4  
3177 10. 102028.5 -2028.3  
3178 8.4 102032.1 -2041.9  
3179 9.1 102034.5 -2009.7  
3180 8.6 102042.4 -2041.2  
3181 8.5 102059.9 -2059.6  
3182 8.8 102103.2 -2057.8  
3183 9.3 102107.3 -2039.7  
3184 10. 102141.3 -2007.4  
  
3185 9.6 102142.7 -2022.3  
3186 9.1 102144.0 -2047.7  
3187 9.8 102216.1 -2031.5  
3188 9.5 102216.3 -2059.4  
3189 9.7 102220.4 -2057.1  
3190 9.7 102238.6 -2042.9  
3191 8.7 102249.5 -2002.9  
3192 9.0 102256.1 -2000.7  
3193 9.2 102309.9 -2043.0  
3194 9.3 102329.0 -2029.7  
  
3195 9.3 102350.3 -2000.8  
3196 8.8 102356.2 -2028.0  
3197 9.5 102400.3 -2017.7  
3198 9.4 102406.2 -2053.5  
3199 9.2 102406.4 -2028.9  
3200 9.3 102453.8 -2045.2  
3201 9.2 102455.8 -2025.7  
3202 9.4 102529.7 -2003.8  
3203 9.5 102547.0 -2002.9  
3204 9.8 102548.8 -2019.0  
  
3205 9.1 102558.1 -2052.2  
3206 9.1 102622.4 -2020.0  
3207 9.4 102624.3 -2031.4  
3208 9.2 102640.1 -2053.3  
3209 9.2 102646.1 -2047.4  
3210 9.3 102706.9 -2038.2  
3211 9.1 102712.8 -2052.2  
3212 9.3 102733.7 -2014.1  
3213 9.5 102747.2 -2001.1  
3214 8.8 102750.6 -2006.0  
  
3215 9.5 102804.5 -2059.9  
3216 10. 102818.9 -2046.6  
3217 9.9 102823.2 -2021.0  
3218 9.8 102839.0 -2058.4  
3219 10. 102849.9 -2046.5  
3220 9.0 102852.1 -2053.1  
3221 8.5 102858.3 -2041.9  
3222 9.8 102903.5 -2054.4  
3223 9.0 103012.0 -2011.4  
3224 8.7 103015.9 -2055.5  
  
3225 8.5 103059.9 -2003.9  
3226 9.6 103113.6 -2024.1  
3227 10. 103124.7 -2000.6  
3228 9.6 103131.5 -2050.7  
3229 9.6 103146.3 -2045.6  
3230 9.4 103200.1 -2005.6  
3231 9.8 103215.3 -2050.3  
3232 9.5 103221.5 -2037.5  
3233 8.0 103230.4 -2005.4  
3234 9.8 103249.2 -2052.7  
  
3235 9.1 103314.3 -2058.1  
3236 9.5 103327.5 -2021.5  
3237 9.8 103330.3 -2031.0  
3238 8.8 103332.9 -2049.2  
3239 10. 103351.5 -2033.4  
3240 9.6 103437.4 -2018.6  
3241 10. 103440.0 -2035.4  
3242 9.5 103448.7 -2052.5  
3243 9.5 103451.1 -2046.3  
3244 9.3 103510.0 -2038.8  
  
3245 10. 103511.2 -2030.6  
3246 9.8 103527.4 -2030.5  
3247 9.2 103542.2 -2007.3  
3248 9.1 103608.3 -2016.2  
3249 9.5 103613.2 -2012.6  
3250 9.7 103616.1 -2057.9  
3251 9.3 103618.5 -2014.2  
3252 9.8 103641.4 -2035.7  
3253 9.7 103721.4 -2041.0  
3254 9.0 103724.4 -2040.3

-20 3254 10h37m



3255 9.3 103735.2 -2026.1  
 3256 9.8 103813.0 -2048.1  
 3257 9.3 103819.2 -2054.5  
 3258 9.1 103825.2 -2035.2  
 3259 9.1 103846.5 -2054.7  
 3260 9.6 103848.2 -2020.5  
 3261 8.0 103850.8 -2012.6  
 3262 9.8 103857.0 -2026.8  
 3263 9.4 103910.9 -2029.1  
 3264 9.9 103928.1 -2035.2

3265 9.8 103948.9 -2007.8  
 3266 9.9 103949.8 -2027.5  
 3267 10.1 103951.4 -2053.5  
 3268 10.1 103953.3 -2039.7  
 3269 8.5 104008.6 -2045.2  
 3270 5.4 104018.9 -2014.1  
 3271 9.7 104041.0 -2049.5  
 3272 7.8 104117.7 -2024.2  
 3273 9.8 104127.4 -2018.4  
 3274 9.6 104146.2 -2046.2

3275 9.6 104204.5 -2039.0  
 3276 9.1 104217.3 -2039.4  
 3277 8.9 104315.9 -2037.1  
 3278 9.8 104326.2 -2007.5  
 3279 10.1 104355.2 -2006.4  
 3280 8.2 104412.4 -2005.4  
 3281 9.9 104413.7 -2014.4  
 3282 9.6 104419.3 -2029.2  
 3283 6.7 104434.3 -2038.8  
 3284 9.9 104454.2 -2016.0

3285 10.1 104519.7 -2014.4  
 3286 9.5 104523.1 -2041.0  
 3287 9.1 104600.3 -2033.6  
 3288 8.6 104645.2 -2019.4  
 3289 9.7 104713.0 -2051.0  
 3290 9.6 104717.7 -2029.3  
 3291 10.1 104721.5 -2001.3  
 3292 6.8 104728.7 -2038.4  
 3293 9.4 104735.4 -2048.0  
 3294 9.9 104754.8 -2036.1

3295 9.4 104810.0 -2058.7  
 3296 9.3 104825.7 -2037.6  
 3297 8.6 104837.9 -2044.7  
 3298 9.2 104849.6 -2049.1  
 3299 8.7 104901.0 -2021.5  
 3300 8.7 104904.5 -2020.0  
 3301 7.8 104934.1 -2030.2  
 3302 8.8 104944.8 -2048.0  
 3303 9.7 105000.2 -2037.6  
 3304 9.0 105006.9 -2053.2

3305 9.8 105046.7 -2043.3  
 3306 9.4 105130.4 -2046.3  
 3307 9.2 105144.8 -2009.0  
 3308 8.8 105155.5 -2023.5  
 3309 10.1 105158.0 -2031.3  
 3310 9.1 105202.9 -2056.1  
 3311 9.3 105205.3 -2051.0  
 3312 10.1 105207.5 -2035.1  
 3313 9.3 105219.4 -2017.7  
 3314 8.0 105220.6 -2016.0

3315 9.4 105228.8 -2059.7  
 3316 8.5 105241.9 -2023.6  
 3317 10.1 105249.6 -2035.6  
 3318 9.3 105249.9 -2020.2  
 3319 9.4 105253.8 -2046.5  
 3320 9.9 105256.9 -2035.7  
 3321 8.0 105259.9 -2042.5  
 3322 9.1 105259.9 -2023.5  
 3323 9.9 105411.2 -2049.4  
 3324 8.8 105454.4 -2042.7

3325 9.2 105500.3 -2021.9  
 3326 7.5 105520.8 -2037.9  
 3327 9.5 105528.7 -2055.1  
 3328 9.3 105515.5 -2046.1  
 3329 5.2 105620.9 -2051.8  
 3330 8.9 105630.3 -2047.5  
 3331 9.8 105633.1 -2056.8  
 3332 9.6 105644.7 -2013.4  
 3333 9.6 105719.5 -2005.8  
 3334 9.0 105720.2 -2009.4

3335 8.0 105724.6 -2020.5  
 3336 9.8 105733.1 -2003.7  
 3337 9.5 105801.5 -2011.0  
 3338 10.1 105803.3 -2038.9  
 3339 10.1 105807.6 -2018.3  
 3340 10.1 105809.8 -2041.1  
 3341 9.5 105813.1 -2048.8  
 3342 10.1 105820.4 -2003.1  
 3343 9.3 105838.5 -2051.9  
 3344 9.3 105840.5 -2052.1

3345 10.1 105859.0 -2057.5  
 3346 8.9 105925.5 -2051.5  
 3347 7.0 105925.9 -2022.7  
 3348 9.8 105932.8 -2043.5  
 3349 10.1 106020.9 -2050.2  
 3350 8.7 106040.3 -2001.7  
 3351 10.1 106101.6 -2036.6  
 3352 7.7 106102.6 -2044.0  
 3353 8.5 106121.3 -2000.0  
 3354 9.6 106130.0 -2021.2

3355 9.4 106140.6 -2050.6  
 3356 9.3 106147.3 -2007.6  
 3357 9.1 106214.3 -2008.7  
 3358 9.8 106222.5 -2055.8  
 3359 9.3 106220.9 -2029.8  
 3360 9.7 106233.3 -2057.5  
 3361 9.6 106231.0 -2034.9  
 3362 9.7 106242.5 -2035.0  
 3363 9.5 106349.9 -2043.5  
 3364 9.5 106406.3 -2022.1

3365 10.1 106428.6 -2037.5  
 3366 9.4 106444.8 -2017.5  
 3367 8.0 106453.9 -2032.7  
 3368 10.1 106500.2 -2012.5  
 3369 8.5 106502.3 -2025.6  
 3370 9.0 106505.8 -2029.6  
 3371 9.0 106506.6 -2030.8  
 3372 9.1 106508.9 -2037.1  
 3373 9.5 106509.8 -2035.3  
 3374 6.5 106526.2 -2057.8

3375 9.4 106528.7 -2053.0  
 3376 9.8 106556.7 -2056.6  
 3377 9.5 106619.8 -2029.7  
 3378 9.1 106704.9 -2043.1  
 3379 9.8 106719.2 -2017.1  
 3380 10.1 106737.1 -2056.1  
 3381 9.2 106820.7 -2035.4  
 3382 9.3 106828.6 -2021.6  
 3383 9.7 106836.0 -2058.8  
 3384 9.5 106840.0 -2008.8

3385 9.6 106853.9 -2049.9  
 3386 9.7 106905.8 -2049.3  
 3387 9.5 106909.5 -2008.5  
 3388 9.7 106928.9 -2027.7  
 3389 9.0 106956.9 -2005.8  
 3390 9.6 106987.7 -2040.9  
 3391 9.6 106985.4 -2007.0  
 3392 9.4 106993.6 -2055.8  
 3393 9.9 107051.3 -2054.6  
 3394 9.5 107052.5 -2016.5

3395 9.8 107056.2 -2054.7  
 3396 9.1 107200.8 -2020.1  
 3397 9.8 107205.7 -2051.8  
 3398 8.0 107215.9 -2037.9  
 3399 8.3 107236.2 -2011.3  
 3400 9.5 107237.2 -2039.6  
 3401 9.5 107330.5 -2058.5  
 3402 9.8 107340.1 -2055.3  
 3403 9.7 107412.2 -2003.6  
 3404 10.1 107416.4 -2045.6

3405 10.1 107447.6 -2042.0  
 3406 9.1 107449.5 -2049.7  
 3407 9.8 107459.1 -2017.6  
 3408 9.7 107469.1 -2033.7  
 3409 8.0 107439.2 -2027.9  
 3410 9.8 107444.1 -2015.0  
 3411 9.2 107453.7 -2000.1  
 3412 9.8 107471.5 -2026.1  
 3413 10.1 107478.4 -2055.6  
 3414 9.0 107473.0 -2017.6

3415 9.9 107521.6 -2036.9  
 3416 8.5 107804.0 -2027.9  
 3417 8.4 107817.3 -2025.9  
 3418 9.8 107825.8 -2053.7  
 3419 8.2 107902.1 -2036.2  
 3420 7.0 107921.0 -2033.3  
 3421 9.3 107957.7 -2056.0  
 3422 9.0 108008.3 -2016.0  
 3423 9.8 108231.9 -2026.3  
 3424 9.5 108238.9 -2041.5

3425 9.0 108239.4 -2021.9  
 3426 9.4 108236.0 -2029.0  
 3427 9.8 108238.4 -2021.3  
 3428 9.5 108202.5 -2030.1  
 3429 9.3 108204.4 -2025.9  
 3430 10.1 108204.7 -2047.9  
 3431 9.8 108212.0 -2043.6  
 3432 10.1 108234.6 -2030.5  
 3433 9.8 108241.9 -2039.0  
 3434 9.8 108220.3 -2010.5

3435 8.2 108229.4 -2032.4  
 3436 9.5 108241.5 -2001.6  
 3437 9.7 108244.4 -2047.5  
 3438 9.5 108254.1 -2050.6  
 3439 9.7 108305.8 -2043.7  
 3440 9.0 108328.9 -2038.4  
 3441 8.3 108330.0 -2045.1  
 3442 9.4 108345.9 -2045.5  
 3443 9.5 108353.4 -2038.9  
 3444 8.5 108400.7 -2019.6

3445 8.2 108413.7 -2010.6  
 3446 9.5 108418.5 -2059.4  
 3447 9.7 108501.6 -2025.0  
 3448 10.1 108521.5 -2002.7  
 3449 9.5 108621.4 -2056.5  
 3450 9.1 108717.9 -2058.8  
 3451 9.8 108724.6 -2019.6  
 3452 9.8 108752.8 -2057.3  
 3453 10.1 108753.5 -2043.7  
 3454 9.3 108758.2 -2002.4

3455 9.8 108802.7 -2038.2  
 3456 8.8 108814.8 -2051.7  
 3457 9.4 108826.5 -2004.7  
 3458 9.5 108850.0 -2041.8  
 3459 9.4 108853.4 -2047.8  
 3460 9.7 108916.9 -2043.1  
 3461 7.7 108938.4 -2009.7  
 3462 9.4 108943.3 -2046.1  
 3463 9.5 108950.3 -2045.8  
 3464 8.8 108955.3 -2039.7

3465 9.1 109017.5 -2023.6  
 3466 10.1 109040.4 -2023.8  
 3467 9.9 109105.7 -2054.6  
 3468 9.5 109108.9 -2018.7  
 3469 9.4 109114.6 -2058.7  
 3470 9.5 109131.3 -2015.3  
 3471 7.5 109136.9 -2022.2  
 3472 9.3 109142.8 -2011.3  
 3473 9.3 109156.5 -2040.8  
 3474 10.1 109159.4 -2052.2

3475 9.5 109216.7 -2019.3  
 3476 9.1 109225.7 -2018.8  
 3477 9.8 109241.3 -2026.6  
 3478 9.1 109244.6 -2053.9  
 3479 9.1 109324.8 -2017.0  
 3480 9.8 109337.7 -2008.0  
 3481 9.2 109338.8 -2024.1  
 3482 9.8 109343.2 -2016.3  
 3483 9.2 109346.3 -2034.8  
 3484 9.2 109348.2 -2022.1

3485 9.0 109412.9 -2003.3  
 3486 9.6 109416.2 -2019.1  
 3487 9.0 109434.2 -2058.6  
 3488 9.1 109603.2 -2031.9  
 3489 9.6 109609.0 -2044.7  
 3490 9.6 109611.1 -2002.3  
 3491 9.4 109614.1 -2012.7  
 3492 7.3 109628.6 -2013.7  
 3493 10.1 109643.2 -2035.9  
 3494 9.5 109645.5 -2014.3

3495 9.9 109700.2 -2000.6  
 3496 9.2 109733.3 -2045.9  
 3497 9.8 109736.4 -2049.2  
 3498 9.5 109755.7 -2008.6  
 3499 9.0 109804.5 -2047.9  
 3500 7.6 109808.8 -2039.9  
 3501 9.9 109819.2 -2002.0  
 3502 9.8 109820.1 -2031.9  
 3503 9.4 109830.2 -2040.8  
 3504 7.7 109830.8 -2040.0

3505 9.7 109833.2 -2001.9  
 3506 9.6 109841.9 -2028.0  
 3507 10.1 109856.7 -2019.9  
 3508 9.8 109841.3 -2015.0  
 3509 9.5 109843.0 -2032.7  
 3510 9.8 109841.1 -2030.7  
 3511 9.2 109841.4 -2045.8  
 3512 9.4 109847.0 -2030.5  
 3513 10.1 109847.7 -2047.6  
 3514 9.5 109847.3 -2008.8

3515 10.1 109827.9 -2035.7  
 3516 8.5 109849.3 -2022.7  
 3517 9.2 109840.3 -2001.3  
 3518 9.8 109840.4 -2029.4  
 3519 7.7 109829.7 -2011.3  
 3520 9.3 109801.8 -2026.5  
 3521 10.1 109810.7 -2010.9  
 3522 7.2 109811.7 -2049.5  
 3523 9.8 109814.2 -2023.8  
 3524 9.4 109825.7 -2005.5

3525 10.1 109849.0 -2001.0  
 3526 9.2 109857.3 -2001.7  
 3527 10.1 109850.5 -2033.2  
 3528 9.3 109857.1 -2026.0  
 3529 9.1 109857.7 -2001.7  
 3530 9.6 109860.1 -2023.8  
 3531 9.5 109857.5 -2012.4  
 3532 9.0 109861.8 -2048.0  
 3533 9.7 109821.7 -2052.5  
 3534 9.5 109822.5 -2004.4

3535 7.7 109828.5 -2050.8  
 3536 9.4 109840.6 -2042.7  
 3537 9.0 109847.9 -2010.8  
 3538 9.0 109850.7 -2024.4  
 3539 9.8 109850.7 -2052.8  
 3540 9.2 109851.6 -2036.7  
 3541 9.5 109856.0 -2021.9  
 3542 10.1 109855.2 -2044.4  
 3543 9.6 109856.6 -2029.8  
 3544 9.6 109850.8 -2019.5

3545 8.4 109832.5 -2031.2  
 3546 9.4 109832.7 -2053.9  
 3547 10.1 109821.3 -2057.5  
 3548 9.4 109812.7 -2057.9  
 3549 10.1 109812.3 -2003.9  
 3550 9.5 109820.3 -2003.1  
 3551 9.9 109815.6 -2046.7  
 3552 9.3 109820.2 -2040.0  
 3553 9.8 109827.5 -2022.0  
 3554 9.8 109832.9 -2047.6

3555 8.0 109832.5 -2026.2  
 3556 9.8 109832.7 -2031.9  
 3557 9.5 109833.2 -2019.8  
 3558 9.0 109835.8 -2006.8  
 3559 9.4 109835.2 -2002.8  
 3560 8.2 109835.2 -2043.2  
 3561 9.5 109848.7 -2013.1  
 3562 9.8 109845.9 -2006.0  
 3563 9.0 109851.9 -2025.5  
 3564 9.8 109852.6 -2022.8

3565 10.1 109819.9 -2050.8  
 3566 9.2 109842.3 -2057.3  
 3567 9.1 109850.3 -2032.3  
 3568 10.1 109850.3 -2014.1  
 3569 7.5 109852.3 -2013.6  
 3570 9.8 109853.9 -2031.8  
 3571 8.5 109851.2 -2031.9  
 3572 9.3 109843.8 -2015.7  
 3573 9.2 109802.9 -2009.5  
 3574 10.1 109821.8 -2058.8

3575 9.0 109839.3 -2052.1  
 3576 9.8 109801.3 -2003.7  
 3577 9.8 109812.2 -2018.3  
 3578 9.6 109831.5 -2058.0  
 3579 9.2 109858.4 -2049.0  
 3580 9.1 109853.6 -2015.2  
 3581 9.4 109806.7 -2052.2  
 3582 7.8 109805.1 -2014.5  
 3583 9.5 109804.1 -2058.8  
 3584 9.0 109844.1 -2053.7

3585 9.9 120313.8 -2050.8  
 3586 9.4 120323.0 -2013.6  
 3587 8.9 120322.1 -2006.0  
 3588 9.3 120338.8 -2002.7  
 3589 9.3 120352.2 -2049.9  
 3590 9.2 120404.9 -2021.4  
 3591 9.6 120408.0 -2005.1  
 3592 9.4 120512.8 -2021.4  
 3593 9.5 120517.9 -2057.0  
 3594 9.4 120520.8 -2056.4

3595 9.1 120545.3 -2036.7  
 3596 9.1 120555.5 -2043.7  
 3597 9.8 120555.4 -2025.7  
 3598 8.0 120602.5 -2000.7  
 3599 8.0 120605.9 -2015.8  
 3600 8.5 120608.9 -2049.8  
 3601 9.7 120619.0 -2006.1  
 3602 9.1 120626.3 -2045.4  
 3603 9.5 120701.7 -2034.9  
 3604 10.1 120707.8 -2012.3

3605 8.9 120727.0 -2043.1  
 3606 6.1 120730.8 -2002.1  
 3607 9.5 120753.9 -2049.8  
 3608 9.1 120813.1 -2035.5  
 3609 9.5 120823.7 -2057.7  
 3610 9.2 120846.3 -2005.2  
 3611 9.5 120846.3 -2017.5  
 3612 9.4 120817.3 -2047.4  
 3613 9.3 120921.7 -2012.1  
 3614 9.4 120956.2 -2003.0



|      |      |          |         |      |      |          |         |      |      |          |         |      |      |          |         |
|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|------|------|----------|---------|
| 3615 | 9.0  | 120956.1 | -2015.0 | 3705 | 9.8  | 123627.3 | -2013.4 | 3795 | 9.1  | 130710.9 | -2006.8 | 3885 | 7.8  | 133849.2 | -2007.4 |
| 3616 | 9.8  | 121019.1 | -2042.1 | 3706 | 9.3  | 123644.4 | -2045.4 | 3796 | 8.8  | 130727.2 | -2047.8 | 3886 | 9.8  | 133909.0 | -2005.4 |
| 3617 | 8.6  | 121021.5 | -2003.6 | 3707 | 9.7  | 123645.7 | -2036.7 | 3797 | 9.7  | 130733.8 | -2050.2 | 3887 | 8.8  | 133912.6 | -2044.5 |
| 3618 | 7.5  | 121045.1 | -2001.9 | 3708 | 9.0  | 123651.3 | -2052.5 | 3798 | 9.8  | 130755.0 | -2019.6 | 3888 | 8.9  | 133918.0 | -2007.6 |
| 3619 | 8.0  | 121056.4 | -2000.3 | 3709 | 9.5  | 123728.6 | -2018.0 | 3799 | 8.7  | 130807.3 | -2009.5 | 3889 | 9.4  | 133929.3 | -2057.4 |
| 3620 | 9.5  | 121106.7 | -2051.2 | 3710 | 9.1  | 123749.2 | -2046.7 | 3800 | 10.1 | 130839.4 | -2048.2 | 3890 | 9.6  | 133938.0 | -2047.3 |
| 3621 | 8.2  | 121124.5 | -2042.9 | 3711 | 7.5  | 123812.7 | -2058.5 | 3801 | 9.0  | 130932.2 | -2015.3 | 3891 | 9.4  | 134013.0 | -2002.1 |
| 3622 | 9.6  | 121154.5 | -2022.5 | 3712 | 9.4  | 123824.5 | -2018.9 | 3802 | 7.8  | 130935.2 | -2046.1 | 3892 | 7.0  | 134100.1 | -2001.3 |
| 3623 | 9.4  | 121201.4 | -2050.4 | 3713 | 8.8  | 123848.1 | -2003.4 | 3803 | 9.1  | 130956.5 | -2041.2 | 3893 | 9.0  | 134106.3 | -2008.6 |
| 3624 | 8.8  | 121226.4 | -2041.0 | 3714 | 10.1 | 123920.2 | -2030.0 | 3804 | 9.6  | 131026.8 | -2009.8 | 3894 | 9.1  | 134111.6 | -2006.4 |
| 3625 | 9.3  | 121228.1 | -2050.4 | 3715 | 9.5  | 123930.2 | -2021.9 | 3805 | 9.0  | 131146.1 | -2027.7 | 3895 | 9.7  | 134130.9 | -2026.0 |
| 3626 | 9.9  | 121257.5 | -2031.3 | 3716 | 9.4  | 123932.4 | -2000.8 | 3806 | 9.9  | 131201.0 | -2016.5 | 3896 | 9.8  | 134144.7 | -2004.8 |
| 3627 | 9.2  | 121302.7 | -2001.8 | 3717 | 8.2  | 123948.1 | -2040.3 | 3807 | 9.5  | 131222.7 | -2003.0 | 3897 | 8.8  | 134214.7 | -2032.8 |
| 3628 | 9.0  | 121340.5 | -2016.0 | 3718 | 9.6  | 124031.7 | -2009.9 | 3808 | 7.8  | 131240.9 | -2006.8 | 3898 | 7.2  | 134216.6 | -2008.8 |
| 3629 | 9.4  | 121357.4 | -2048.5 | 3719 | 9.5  | 124032.5 | -2007.7 | 3809 | 9.7  | 131332.3 | -2057.0 | 3899 | 9.0  | 134222.8 | -2023.4 |
| 3630 | 9.6  | 121422.0 | -2051.6 | 3720 | 8.7  | 124116.6 | -2054.6 | 3810 | 9.3  | 131344.5 | -2028.4 | 3900 | 8.5  | 134255.4 | -2040.8 |
| 3631 | 9.6  | 121449.6 | -2001.4 | 3721 | 8.7  | 124135.1 | -2023.7 | 3811 | 9.1  | 131359.6 | -2059.5 | 3901 | 7.7  | 134259.1 | -2015.6 |
| 3632 | 9.7  | 121508.5 | -2008.2 | 3722 | 8.9  | 124136.0 | -2059.6 | 3812 | 9.5  | 131405.4 | -2022.8 | 3902 | 10.1 | 134327.3 | -2030.5 |
| 3633 | 9.5  | 121509.4 | -2028.2 | 3723 | 9.5  | 124147.4 | -2040.1 | 3813 | 9.0  | 131409.7 | -2053.5 | 3903 | 9.8  | 134347.2 | -2052.2 |
| 3634 | 8.9  | 121526.4 | -2013.3 | 3724 | 8.7  | 124211.1 | -2027.6 | 3814 | 8.5  | 131429.0 | -2005.7 | 3904 | 9.3  | 134353.5 | -2014.3 |
| 3635 | 10.1 | 121536.9 | -2030.5 | 3725 | 10.1 | 124238.4 | -2038.1 | 3815 | 9.4  | 131459.2 | -2043.2 | 3905 | 9.9  | 134439.5 | -2000.6 |
| 3636 | 9.8  | 121553.2 | -2041.7 | 3726 | 10.1 | 124239.4 | -2036.4 | 3816 | 8.0  | 131500.5 | -2039.2 | 3906 | 9.3  | 134443.9 | -2014.5 |
| 3637 | 9.9  | 121611.2 | -2040.1 | 3727 | 9.4  | 124253.5 | -2029.1 | 3817 | 9.3  | 131526.2 | -2047.1 | 3907 | 9.8  | 134507.9 | -2041.9 |
| 3638 | 9.8  | 121633.5 | -2006.6 | 3728 | 8.7  | 124319.0 | -2026.6 | 3818 | 7.0  | 131606.7 | -2009.2 | 3908 | 9.3  | 134511.8 | -2002.2 |
| 3639 | 9.0  | 121636.8 | -2031.4 | 3729 | 10.1 | 124351.9 | -2025.8 | 3819 | 9.8  | 131614.0 | -2057.0 | 3909 | 9.4  | 134519.5 | -2049.4 |
| 3640 | 9.5  | 121648.9 | -2028.3 | 3730 | 9.6  | 124455.6 | -2008.4 | 3820 | 9.5  | 131618.3 | -2021.2 | 3910 | 9.9  | 134525.9 | -2040.1 |
| 3641 | 9.2  | 121705.5 | -2001.7 | 3731 | 10.1 | 124503.0 | -2016.6 | 3821 | 9.3  | 131637.7 | -2031.1 | 3911 | 9.6  | 134531.1 | -2049.8 |
| 3642 | 8.8  | 121728.4 | -2051.5 | 3732 | 10.1 | 124534.1 | -2011.7 | 3822 | 9.6  | 131721.5 | -2052.9 | 3912 | 9.4  | 134535.5 | -2046.6 |
| 3643 | 9.1  | 121729.4 | -2009.6 | 3733 | 9.6  | 124543.6 | -2024.0 | 3823 | 9.2  | 131804.4 | -2019.9 | 3913 | 9.8  | 134546.6 | -2042.4 |
| 3644 | 9.0  | 121743.8 | -2013.8 | 3734 | 8.7  | 124550.2 | -2030.2 | 3824 | 9.4  | 131912.6 | -2038.4 | 3914 | 8.3  | 134550.2 | -2030.1 |
| 3645 | 9.1  | 121746.2 | -2025.6 | 3735 | 9.5  | 124606.6 | -2054.4 | 3825 | 9.3  | 131934.6 | -2054.2 | 3915 | 8.0  | 134651.6 | -2047.3 |
| 3646 | 10.1 | 121843.7 | -2025.0 | 3736 | 10.1 | 124625.9 | -2044.0 | 3826 | 9.3  | 131935.9 | -2051.3 | 3916 | 9.0  | 134703.2 | -2031.0 |
| 3647 | 9.0  | 121937.7 | -2054.6 | 3737 | 8.8  | 124644.3 | -2026.2 | 3827 | 9.7  | 131950.9 | -2046.9 | 3917 | 9.8  | 134703.8 | -2049.4 |
| 3648 | 9.5  | 121946.2 | -2016.2 | 3738 | 9.1  | 124703.8 | -2031.4 | 3828 | 9.6  | 131952.6 | -2053.3 | 3918 | 9.5  | 134713.5 | -2038.8 |
| 3649 | 7.8  | 121958.6 | -2025.7 | 3739 | 9.5  | 124704.6 | -2024.2 | 3829 | 9.8  | 132001.4 | -2025.6 | 3919 | 9.0  | 134724.2 | -2051.1 |
| 3650 | 9.8  | 122009.5 | -2035.3 | 3740 | 9.5  | 124732.7 | -2034.5 | 3830 | 8.5  | 132022.8 | -2058.7 | 3920 | 9.5  | 134731.3 | -2017.8 |
| 3651 | 9.8  | 122010.1 | -2016.3 | 3741 | 9.6  | 124739.7 | -2034.5 | 3831 | 9.3  | 132028.2 | -2036.3 | 3921 | 9.5  | 134805.4 | -2002.8 |
| 3652 | 9.5  | 122019.6 | -2003.3 | 3742 | 8.3  | 124742.3 | -2057.1 | 3832 | 9.5  | 132033.1 | -2047.8 | 3922 | 9.5  | 134819.9 | -2056.4 |
| 3653 | 9.5  | 122045.7 | -2012.7 | 3743 | 9.3  | 124746.2 | -2052.9 | 3833 | 9.5  | 132055.5 | -2009.3 | 3923 | 9.8  | 134820.9 | -2027.1 |
| 3654 | 9.5  | 122050.6 | -2027.2 | 3744 | 9.8  | 124822.8 | -2020.8 | 3834 | 9.0  | 132143.4 | -2005.1 | 3924 | 8.8  | 134847.6 | -2003.7 |
| 3655 | 8.3  | 122154.9 | -2035.6 | 3745 | 9.8  | 124856.5 | -2017.0 | 3835 | 9.8  | 132202.2 | -2058.9 | 3925 | 9.0  | 134849.6 | -2008.7 |
| 3656 | 9.8  | 122155.5 | -2028.3 | 3746 | 10.1 | 124938.6 | -2013.1 | 3836 | 9.5  | 132221.0 | -2028.9 | 3926 | 9.6  | 134916.8 | -2000.9 |
| 3657 | 9.7  | 122157.1 | -2057.9 | 3747 | 9.8  | 124940.4 | -2031.6 | 3837 | 8.8  | 132320.3 | -2040.3 | 3927 | 8.9  | 134917.5 | -2056.7 |
| 3658 | 9.4  | 122235.8 | -2050.1 | 3748 | 9.1  | 124948.1 | -2004.0 | 3838 | 9.6  | 132326.2 | -2055.2 | 3928 | 9.8  | 134932.5 | -2054.3 |
| 3659 | 8.4  | 122313.1 | -2050.3 | 3749 | 8.5  | 125005.4 | -2004.6 | 3839 | 9.6  | 132328.1 | -2003.2 | 3929 | 8.8  | 134953.0 | -2053.1 |
| 3660 | 9.9  | 122403.6 | -2034.2 | 3750 | 9.5  | 125006.1 | -2035.1 | 3840 | 8.8  | 132409.8 | -2021.3 | 3930 | 9.1  | 135058.9 | -2049.0 |
| 3661 | 9.4  | 122404.4 | -2044.6 | 3751 | 9.1  | 125019.8 | -2054.5 | 3841 | 9.2  | 132431.2 | -2042.1 | 3931 | 9.8  | 135130.0 | -2048.7 |
| 3662 | 7.3  | 122419.5 | -2011.5 | 3752 | 9.7  | 125044.7 | -2055.1 | 3842 | 9.3  | 132451.0 | -2000.0 | 3932 | 9.5  | 135135.7 | -2007.2 |
| 3663 | 9.9  | 122423.1 | -2051.1 | 3753 | 9.6  | 125044.7 | -2055.8 | 3843 | 9.7  | 132501.8 | -2015.7 | 3933 | 9.8  | 135213.4 | -2048.7 |
| 3664 | 9.5  | 122432.4 | -2031.2 | 3754 | 9.7  | 125054.7 | -2055.6 | 3844 | 9.7  | 132545.7 | -2042.9 | 3934 | 10.1 | 135224.0 | -2001.9 |
| 3665 | 9.2  | 122450.1 | -2031.9 | 3755 | 9.2  | 125104.2 | -2018.6 | 3845 | 9.0  | 132617.7 | -2023.2 | 3935 | 9.5  | 135311.7 | -2005.5 |
| 3666 | 9.4  | 122453.3 | -2031.1 | 3756 | 9.8  | 125112.1 | -2034.6 | 3846 | 9.7  | 132627.8 | -2009.0 | 3936 | 9.1  | 135314.6 | -2016.4 |
| 3667 | 6.5  | 122459.4 | -2021.5 | 3757 | 6.8  | 125114.1 | -2045.4 | 3847 | 9.7  | 132642.5 | -2058.6 | 3937 | 9.5  | 135327.8 | -2053.7 |
| 3668 | 9.3  | 122518.9 | -2021.5 | 3758 | 9.0  | 125133.7 | -2040.9 | 3848 | 9.0  | 132656.0 | -2059.0 | 3938 | 9.4  | 135331.0 | -2018.2 |
| 3669 | 8.5  | 122543.0 | -2016.9 | 3759 | 10.1 | 125150.4 | -2012.2 | 3849 | 9.4  | 132723.4 | -2045.7 | 3939 | 9.1  | 135338.0 | -2017.9 |
| 3670 | 9.5  | 122556.4 | -2049.2 | 3760 | 9.0  | 125205.5 | -2035.8 | 3850 | 9.5  | 132841.5 | -2041.8 | 3940 | 9.0  | 135358.4 | -2025.7 |
| 3671 | 8.5  | 122638.1 | -2055.3 | 3761 | 9.1  | 125210.7 | -2059.7 | 3851 | 9.1  | 132854.2 | -2002.9 | 3941 | 9.6  | 135423.4 | -2020.4 |
| 3672 | 9.3  | 122647.1 | -2044.4 | 3762 | 9.4  | 125212.2 | -2031.3 | 3852 | 8.3  | 132855.3 | -2057.9 | 3942 | 9.1  | 135429.1 | -2011.2 |
| 3673 | 9.6  | 122653.7 | -2034.4 | 3763 | 9.2  | 125217.8 | -2032.2 | 3853 | 9.6  | 132915.6 | -2043.0 | 3943 | 8.2  | 135437.2 | -2057.6 |
| 3674 | 8.8  | 122722.0 | -2002.1 | 3764 | 9.4  | 125245.5 | -2058.0 | 3854 | 9.2  | 132921.8 | -2051.4 | 3944 | 9.3  | 135439.1 | -2010.7 |
| 3675 | 8.4  | 122722.8 | -2024.5 | 3765 | 9.8  | 125303.3 | -2002.6 | 3855 | 9.3  | 132942.7 | -2049.6 | 3945 | 9.1  | 135510.9 | -2018.8 |
| 3676 | 9.4  | 122743.8 | -2052.8 | 3766 | 7.8  | 125314.7 | -2038.7 | 3856 | 8.8  | 133017.2 | -2001.0 | 3946 | 9.2  | 135522.3 | -2030.0 |
| 3677 | 10.1 | 122834.4 | -2008.0 | 3767 | 9.6  | 125402.7 | -2051.5 | 3857 | 8.5  | 133053.6 | -2050.8 | 3947 | 8.7  | 135532.8 | -2005.7 |
| 3678 | 9.2  | 122846.7 | -2023.5 | 3768 | 8.5  | 125527.9 | -2025.7 | 3858 | 9.5  | 133122.5 | -2009.1 | 3948 | 9.8  | 135535.7 | -2001.2 |
| 3679 | 7.8  | 122905.2 | -2030.5 | 3769 | 9.4  | 125618.4 | -2043.8 | 3859 | 9.8  | 133123.3 | -2043.8 | 3949 | 9.5  | 135545.6 | -2000.3 |
| 3680 | 9.1  | 122917.3 | -2008.5 | 3770 | 9.2  | 125644.6 | -2050.1 | 3860 | 9.5  | 133224.8 | -2052.8 | 3950 | 9.5  | 135545.3 | -2057.4 |
| 3681 | 9.2  | 122920.8 | -2047.6 | 3771 | 7.5  | 125707.7 | -2044.3 | 3861 | 9.0  | 133228.1 | -2059.1 | 3951 | 8.1  | 135603.2 | -2036.7 |
| 3682 | 9.6  | 122924.7 | -2032.9 | 3772 | 9.8  | 125741.3 | -2015.9 | 3862 | 9.1  | 133241.0 | -2011.6 | 3952 | 8.7  | 135703.1 | -2052.7 |
| 3683 | 9.3  | 122953.2 | -2016.5 | 3773 | 9.1  | 125830.4 | -2057.1 | 3863 | 9.5  | 133258.9 | -2004.5 | 3953 | 9.9  | 135706.9 | -2031.6 |
| 3684 | 9.7  | 123019.2 | -2039.3 | 3774 | 9.4  | 125835.5 | -2039.6 | 3864 | 9.1  | 133304.8 | -2000.8 | 3954 | 9.8  | 135726.5 | -2002.7 |
| 3685 | 9.5  | 123037.4 | -2041.3 | 3775 | 9.0  | 125856.2 | -2024.2 | 3865 | 9.4  | 133305.2 | -2058.2 | 3955 | 9.5  | 135749.5 | -2030.7 |
| 3686 | 9.1  | 123037.5 | -2035.8 | 3776 | 9.1  | 125900.7 | -2024.2 | 3866 | 9.5  | 133306.8 | -2048.6 | 3956 | 9.8  | 135815.4 | -2015.0 |
| 3687 | 9.1  | 123056.5 | -2043.5 | 3777 | 9.8  | 125908.4 | -20     |      |      |          |         |      |      |          |         |



|                           |                           |                            |                            |
|---------------------------|---------------------------|----------------------------|----------------------------|
| 3975 9.4 140231.3 -2052.5 | 4065 9.5 143038.9 -2052.6 | 4155 9.5 145941.9 -2017.2  | 4245 9.3 152204.4 -2045.0  |
| 3976 9.7 140239.3 -2008.4 | 4066 9.1 143046.2 -2018.5 | 4156 9.4 150019.4 -2056.6  | 4246 6.7 152213.5 -2013.4  |
| 3977 9.7 140243.0 -2048.4 | 4067 9.5 143150.6 -2049.0 | 4157 8.0 150029.3 -2007.8  | 4247 9.1 152225.7 -2032.4  |
| 3978 10. 140248.6 -2024.5 | 4068 9.2 143213.2 -2013.2 | 4158 9.2 150031.6 -2057.9  | 4248 9.5 152252.0 -2017.0  |
| 3979 10. 140301.0 -2000.4 | 4069 9.4 143218.6 -2003.8 | 4159 9.4 150049.1 -2058.6  | 4249 9.7 152324.9 -2010.3  |
| 3980 9.7 140345.5 -2018.1 | 4070 9.5 143257.3 -2032.7 | 4160 10. 150129.7 -2015.1  | 4250 8.5 152333.5 -2007.4  |
| 3981 9.8 140338.0 -2017.2 | 4071 9.5 143258.0 -2003.0 | 4161 9.7 150141.4 -2040.4  | 4251 9.4 152344.8 -2044.4  |
| 3982 9.3 140456.4 -2029.1 | 4072 9.8 143307.7 -2015.5 | 4162 9.2 150156.9 -2000.4  | 4252 9.5 152338.0 -2054.0  |
| 3983 9.5 140500.6 -2032.6 | 4073 10. 143350.0 -2018.3 | 4163 9.3 150211.7 -2008.5  | 4253 9.7 152413.0 -2041.9  |
| 3984 9.6 140501.4 -2028.4 | 4074 8.3 143422.4 -2034.5 | 4164 8.7 150313.0 -2045.1  | 4254 9.7 152417.9 -2045.6  |
| 3985 9.8 140539.0 -2044.6 | 4075 9.1 143441.1 -2009.0 | 4165 9.5 150330.9 -2034.6  | 4255 9.0 152417.9 -2021.6  |
| 3986 9.5 140608.3 -2050.6 | 4076 9.5 143444.9 -2030.3 | 4166 9.6 150337.2 -2006.2  | 4256 9.3 152430.9 -2007.8  |
| 3987 9.5 140611.1 -2012.5 | 4077 9.2 143453.0 -2055.1 | 4167 9.0 150341.9 -2034.2  | 4257 9.4 152442.5 -2009.2  |
| 3988 9.4 140632.2 -2030.4 | 4078 9.2 143522.3 -2018.4 | 4168 9.7 150342.1 -2041.7  | 4258 9.8 152451.9 -2009.8  |
| 3989 7.2 140646.9 -2023.2 | 4079 9.8 143539.9 -2029.9 | 4169 9.3 150347.2 -2012.5  | 4259 9.4 152508.9 -2024.0  |
| 3990 9.5 140724.9 -2018.9 | 4080 9.4 143603.3 -2001.3 | 4170 8.9 150416.3 -2023.7  | 4260 8.5 152520.3 -2003.1  |
| 3991 9.8 140741.0 -2000.9 | 4081 9.3 143622.6 -2051.7 | 4171 9.7 150452.6 -2000.1  | 4261 9.8 152531.1 -2017.5  |
| 3992 9.9 140747.1 -2026.2 | 4082 9.8 143642.9 -2052.0 | 4172 9.5 150458.5 -2021.2  | 4262 7.9 152544.4 -2049.1  |
| 3993 9.3 140846.0 -2011.8 | 4083 9.7 143711.3 -2033.1 | 4173 9.8 150512.8 -2029.7  | 4263 10. 152557.2 -2025.5  |
| 3994 8.8 140858.1 -2039.3 | 4084 9.8 143727.4 -2029.2 | 4174 9.9 150514.1 -2023.4  | 4264 9.5 152557.3 -2026.8  |
| 3995 8.9 140920.6 -2038.7 | 4085 9.4 143742.5 -2056.6 | 4175 9.5 150555.8 -2043.9  | 4265 9.0 152634.8 -2034.3  |
| 3996 8.3 140932.4 -2004.8 | 4086 9.8 143748.7 -2051.6 | 4176 10. 150559.3 -2030.9  | 4266 8.4 152647.3 -2031.0  |
| 3997 9.4 141011.6 -2000.1 | 4087 6.4 143757.2 -2033.3 | 4177 9.6 150602.2 -2035.1  | 4267 10. 152652.0 -2051.9  |
| 3998 9.6 141015.0 -2004.0 | 4088 9.0 143807.3 -2031.1 | 4178 9.8 150603.0 -2057.7  | 4268 9.6 152711.7 -2046.0  |
| 3999 10. 141023.9 -2010.7 | 4089 9.5 143809.0 -2033.4 | 4179 9.8 150605.8 -2057.0  | 4269 9.9 152713.2 -2051.2  |
| 4000 9.7 141120.9 -2044.4 | 4090 9.8 143832.0 -2035.6 | 4180 9.0 150606.1 -2009.7  | 4270 9.9 152723.9 -2047.0  |
| 4001 9.4 141129.8 -2040.4 | 4091 9.6 143844.2 -2042.2 | 4181 9.8 150618.9 -2000.3  | 4271 10. 152727.4 -2034.7  |
| 4002 9.5 141135.0 -2002.2 | 4092 9.7 143858.7 -2021.9 | 4182 9.5 150643.5 -2018.2  | 4272 9.8 152728.2 -2031.6  |
| 4003 8.0 141142.3 -2011.9 | 4093 6.3 143859.5 -2042.6 | 4183 9.5 150714.0 -2013.9  | 4273 9.9 152731.9 -2051.2  |
| 4004 9.0 141209.2 -2019.1 | 4094 9.8 143922.8 -2041.4 | 4184 9.4 150717.6 -2021.3  | 4274 9.0 152741.8 -2013.0  |
| 4005 10. 141218.7 -2015.2 | 4095 9.8 143939.7 -2034.8 | 4185 9.2 150724.5 -2003.1  | 4275 30.0 152750.0 -2040.8 |
| 4006 9.5 141228.5 -2050.4 | 4096 9.8 143944.5 -2021.4 | 4186 8.5 150726.4 -2023.7  | 4276 9.8 152801.7 -2037.3  |
| 4007 9.5 141246.5 -2039.2 | 4097 9.2 143945.5 -2015.4 | 4187 10. 150746.6 -2049.6  | 4277 9.2 152812.6 -2006.4  |
| 4008 9.7 141250.8 -2019.8 | 4098 9.5 144027.8 -2059.8 | 4188 9.7 150755.5 -2011.6  | 4278 10. 152817.9 -2025.0  |
| 4009 8.5 141335.9 -2055.8 | 4099 9.8 144035.4 -2043.0 | 4189 9.1 150843.1 -2004.2  | 4279 8.8 152845.6 -2046.6  |
| 4010 8.8 141343.4 -2001.2 | 4099 9.8 144035.4 -2043.0 | 4190 9.7 150849.6 -2039.5  | 4280 8.8 152852.2 -2055.9  |
| 4011 9.5 141354.3 -2058.7 | 4100 8.8 144159.3 -2054.4 | 4191 9.4 150851.5 -2050.7  | 4281 9.5 152910.9 -2034.8  |
| 4012 9.8 141406.3 -2053.4 | 4101 8.9 144202.7 -2003.9 | 4192 9.8 150854.3 -2023.9  | 4282 9.4 152916.9 -2054.5  |
| 4013 7.1 141428.4 -2005.8 | 4102 8.8 144217.4 -2009.9 | 4193 20.0 150904.8 -2029.1 | 4283 9.8 152934.4 -2021.4  |
| 4014 9.8 141428.6 -2017.5 | 4103 9.4 144240.9 -2004.3 | 4194 9.0 150905.4 -2017.4  | 4284 8.8 152946.7 -2052.6  |
| 4015 9.4 141455.5 -2035.4 | 4104 9.6 144253.1 -2033.8 | 4195 9.2 150924.9 -2013.9  | 4285 5.8 152951.2 -2031.9  |
| 4016 9.8 141458.2 -2058.4 | 4105 9.7 144256.8 -2008.9 | 4196 8.3 150931.0 -2010.7  | 4286 9.5 153004.1 -2001.4  |
| 4017 10. 141514.0 -2046.8 | 4106 9.4 144262.3 -2000.8 | 4197 9.5 150953.3 -2018.0  | 4287 9.3 153014.9 -2018.5  |
| 4018 9.2 141525.1 -2034.6 | 4107 7.9 144332.0 -2000.8 | 4198 8.2 150959.4 -2019.3  | 4288 8.9 153035.0 -2047.9  |
| 4019 9.0 141541.3 -2020.9 | 4108 9.8 144344.8 -2008.3 | 4199 9.1 151002.7 -2031.4  | 4289 8.7 153036.0 -2005.8  |
| 4020 8.0 141651.3 -2013.1 | 4109 8.5 144355.5 -2012.5 | 4200 9.8 151013.4 -2023.2  | 4290 9.9 153037.3 -2021.2  |
| 4021 9.3 141658.5 -2054.6 | 4110 9.8 144402.8 -2048.0 | 4201 9.3 151015.9 -2008.8  | 4291 9.2 153047.9 -2045.0  |
| 4022 9.3 141729.1 -2044.5 | 4111 9.5 144403.5 -2051.6 | 4202 9.2 151017.3 -2025.3  | 4292 8.2 153114.7 -2032.1  |
| 4023 7.7 141737.6 -2046.3 | 4112 9.9 144438.2 -2059.4 | 4203 8.2 151022.7 -2034.0  | 4293D 9.8 153138.5 -2054.0 |
| 4024 9.5 141817.5 -2017.4 | 4113 9.4 144537.0 -2022.9 | 4204 9.2 151025.1 -2000.3  | 4294 9.9 153151.1 -2005.1  |
| 4025 8.5 141823.7 -2021.9 | 4114 9.3 144630.9 -2033.4 | 4195 9.2 150924.9 -2013.9  | 4295 9.1 153159.1 -2029.4  |
| 4026 9.4 141829.6 -2024.1 | 4115 8.9 144646.6 -2045.7 | 4196 8.3 150931.0 -2010.7  | 4296 9.5 153210.8 -2000.2  |
| 4027 9.5 141857.2 -2028.6 | 4116 9.4 144711.6 -2055.8 | 4197 9.5 150953.3 -2018.0  | 4297 9.6 153214.7 -2000.0  |
| 4028 9.5 141911.2 -2003.1 | 4117 9.5 144714.5 -2032.5 | 4198 8.2 150959.4 -2019.3  | 4298 9.1 153217.0 -2042.7  |
| 4029 9.5 141914.6 -2049.5 | 4118 9.4 144725.6 -2025.6 | 4199 9.1 151002.7 -2031.4  | 4299 9.6 153229.2 -2049.0  |
| 4030 8.9 141929.3 -2009.1 | 4119 9.2 144736.1 -2024.7 | 4200 9.8 151013.4 -2023.2  | 4300 9.6 153258.8 -2030.9  |
| 4031 9.1 141931.2 -2014.7 | 4120 9.6 144751.6 -2039.1 | 4201 9.3 151015.9 -2008.8  | 4301 9.5 153316.4 -2012.3  |
| 4032 9.2 141935.2 -2015.6 | 4121 9.4 144755.5 -2048.0 | 4202 9.2 151017.3 -2025.3  | 4302 10. 153318.0 -2048.2  |
| 4033 9.5 141943.1 -2002.8 | 4122 9.3 144855.8 -2005.3 | 4203 8.2 151022.7 -2034.0  | 4303 10. 153334.1 -2042.6  |
| 4034 9.4 142007.4 -2036.3 | 4123 8.7 144859.8 -2045.7 | 4204 9.2 151025.1 -2000.3  | 4304 9.3 153336.2 -2002.8  |
| 4035 9.8 142030.2 -2006.3 | 4124 9.4 144900.0 -2058.8 | 4205 9.5 151058.2 -2029.9  | 4305 30.0 153337.0 -2042.6 |
| 4036 9.6 142033.9 -2038.7 | 4125 6.0 144901.6 -2045.9 | 4206 8.1 151128.3 -2020.0  | 4306 9.3 153342.0 -2006.8  |
| 4037 9.2 142140.0 -2018.8 | 4126 9.7 144908.8 -2043.3 | 4207 9.6 151158.6 -2029.5  | 4307 9.1 153347.1 -2050.7  |
| 4038 9.7 142207.3 -2050.2 | 4127 9.5 145017.1 -2046.9 | 4208 9.9 151227.0 -2043.0  | 4308 9.1 153348.3 -2015.5  |
| 4039 8.6 142214.6 -2051.2 | 4128 9.5 145029.0 -2018.4 | 4209 9.4 151241.3 -2014.5  | 4309 8.4 153345.1 -2039.1  |
| 4040 9.6 142217.5 -2018.6 | 4129 9.0 145034.0 -2016.8 | 4210 9.5 151244.4 -2056.2  | 4310 10. 153351.4 -2043.8  |
| 4041 9.8 142228.1 -2042.8 | 4130 9.5 145041.9 -2057.7 | 4211 9.1 151414.0 -2011.1  | 4311 9.5 153351.9 -2030.7  |
| 4042 9.4 142241.3 -2036.2 | 4131 9.8 145055.0 -2048.5 | 4212 9.8 151441.6 -2026.2  | 4312 10. 153351.6 -2026.6  |
| 4043 7.3 142242.3 -2004.1 | 4132 9.2 145127.9 -2016.7 | 4213 9.5 151319.3 -2008.8  | 4313 9.2 153602.2 -2028.1  |
| 4044 9.2 142250.6 -2042.4 | 4133 8.5 145129.0 -2036.0 | 4214 9.8 151326.2 -2047.3  | 4314 9.8 153631.0 -2049.6  |
| 4045 9.0 142255.3 -2003.7 | 4134 9.5 145135.4 -2020.8 | 4215 9.6 151333.1 -2027.0  | 4315 9.5 153724.0 -2016.5  |
| 4046 9.4 142320.4 -2058.2 | 4135 9.3 145241.8 -2045.7 | 4216 9.8 151335.2 -2056.5  | 4316 9.1 153744.7 -2003.0  |
| 4047 7.9 142352.5 -2018.4 | 4136 8.5 145312.7 -2031.6 | 4217 8.7 151401.9 -2039.4  | 4317 9.7 153754.7 -2046.8  |
| 4048 8.7 142424.8 -2033.4 | 4137 8.6 145325.9 -2039.5 | 4218 10. 151405.3 -2024.2  | 4318 9.3 153755.6 -203.2   |
| 4049 9.8 142436.2 -2035.6 | 4138 9.7 145325.9 -2009.2 | 4219 9.1 151408.8 -2011.9  | 4319 9.3 153819.8 -2055.0  |
| 4050 9.5 142450.5 -2038.3 | 4139 9.8 145355.0 -2055.8 | 4220 9.4 151411.5 -2033.3  | 4320 9.1 153827.8 -2053.3  |
| 4051 9.3 142533.5 -2011.5 | 4140 9.2 145430.4 -2050.9 | 4221 9.1 151414.0 -2011.1  | 4321 10. 153845.6 -2054.2  |
| 4052 8.3 142536.4 -2023.5 | 4141 8.9 145435.4 -2049.8 | 4222 9.8 151441.6 -2026.2  | 4322 7.6 153856.4 -2000.7  |
| 4053 9.2 142634.8 -2029.7 | 4142 9.7 145447.4 -2050.4 | 4223 9.4 151514.0 -2001.9  | 4323 7.8 153904.6 -2046.4  |
| 4054 9.6 142645.7 -2059.8 | 4143 9.6 145451.5 -2035.1 | 4224 8.6 151549.2 -2019.0  | 4324 9.0 153925.7 -2006.6  |
| 4055 9.9 142715.2 -2027.6 | 4144 9.5 145463.3 -2057.0 | 4225 9.5 151552.7 -2036.5  | 4325 9.6 153946.0 -2028.6  |
| 4056 9.7 142746.7 -2049.6 | 4145 9.3 145720.5 -2026.9 | 4226 9.0 151553.2 -2012.7  | 4326 9.7 153951.0 -2000.9  |
| 4057 9.1 142750.9 -2017.2 | 4146 9.3 145720.5 -2026.9 | 4227 9.5 151617.1 -2030.9  | 4327 9.6 154015.8 -2040.7  |
| 4058 9.8 142803.6 -2049.9 | 4147 9.3 145725.9 -2059.3 | 4228 9.9 151624.0 -2030.0  | 4328 8.4 154019.1 -2046.1  |
| 4059 9.5 142832.2 -2035.1 | 4148 9.5 145740.1 -2001.0 | 4229 9.5 151642.2 -2013.5  | 4329 7.7 154030.0 -2000.0  |
| 4060 10. 142911.6 -2041.1 | 4149 9.6 145804.8 -2055.4 | 4230 9.5 151723.8 -2005.2  | 4330 9.8 154102.8 -2004.9  |
| 4061 9.8 142913.6 -2027.8 | 4150 8.3 145907.3 -2007.8 | 4231 9.8 151725.7 -2004.2  | 4331 8.5 154109.7 -2001.4  |
| 4062 9.5 142919.4 -2009.7 | 4151 9.4 145911.8 -2010.0 | 4232 9.5 151740.5 -2058.8  | 4332 7.5 154113.6 -2019.9  |
| 4063 8.8 142955.6 -2041.2 | 4152 9.7 145920.1 -2001.3 | 4233 7.0 151741.6 -2051.5  | 4333 9.3 154116.4 -2013.7  |
| 4064 9.8 143006.7 -2059.0 | 4153 9.2 145921.1 -2048.6 | 4234 9.5 151751.9 -2041.9  | 4334 9.5 154138.2 -2016.1  |



4335 8.1 154204.1 -2024.2  
 4336 9.1 154206.6 -2016.0  
 4337 9.5 154231.2 -2021.0  
 4338 9.0 154240.3 -2031.9  
 4339 9.7 154244.9 -2020.3  
 4340 9.7 154250.2 -2011.9  
 4341 9.7 154250.5 -2029.2  
 4342 9.4 154303.0 -2033.2  
 4343 7.3 154303.4 -2008.5  
 4344 8.8 154307.1 -2028.1

4345 10. 154323.4 -2031.1  
 4346 10. 154348.4 -2007.8  
 4347 9.5 154413.2 -2006.1  
 4348 9.7 154429.2 -2020.5  
 4349 9.6 154434.0 -2039.0  
 4350 9.7 154445.1 -2031.1  
 4351 9.8 154458.2 -2015.2  
 4352 9.7 154524.4 -2022.1  
 4353 9.7 154540.0 -2005.7  
 4354 9.4 154608.4 -2020.4

4355 8.3 154620.8 -2023.1  
 4356 8.9 154636.1 -2021.5  
 4357 9.4 154645.4 -2015.3  
 4358 10. 154707.0 -2029.7  
 4359 8.8 154718.3 -2030.8  
 4360 9.2 154726.3 -2012.0  
 4361 9.4 154744.0 -2004.7  
 4362 8.2 154754.4 -2021.2  
 4363 8.3 154811.0 -2000.2  
 4364 6.5 154912.3 -2033.5

4365 9.9 154917.2 -2027.4  
 4366 8.9 154958.2 -2058.8  
 4367 9.5 155001.3 -2030.8  
 4368 7.5 155002.1 -2027.9  
 4369 9.5 155010.2 -2059.0  
 4370 8.5 155032.1 -2036.0  
 4371 9.5 155032.7 -2050.2  
 4372 9.6 155035.8 -2022.3  
 4373 9.8 155047.5 -2005.3  
 4374 10. 155059.2 -2043.4

4375 9.1 155117.2 -2033.1  
 4376 9.5 155132.3 -2023.1  
 4377 9.3 155134.1 -2016.7  
 4378 9.5 155203.3 -2011.6  
 4379 8.9 155208.0 -2002.3  
 4380 7.5 155236.4 -2044.6  
 4381 9.7 155238.8 -2024.2  
 4382 9.6 155312.2 -2031.0  
 4383 9.5 155333.6 -2058.6  
 4384 9.0 155336.5 -2020.7

4385 9.2 155401.8 -2005.4  
 4386 10. 155404.3 -2031.1  
 4387 9.4 155431.7 -2034.7  
 4388 9.4 155435.6 -2003.9  
 4389 9.8 155554.1 -2053.2  
 4390 8.8 155605.0 -2057.2  
 4391 9.0 155625.3 -2029.6  
 4392 8.2 155627.2 -2030.3  
 4393 9.7 155643.2 -2011.4  
 4394 9.5 155654.2 -2005.1

4395 9.1 155657.9 -2005.2  
 4396 9.0 155658.2 -2010.3  
 4397 9.5 155705.6 -2035.3  
 4398 9.1 155709.2 -2009.1  
 4399 7.7 155709.8 -2002.5  
 4400 9.5 155715.0 -2041.2  
 4401 8.5 155724.2 -2045.0  
 4402 8.9 155724.3 -2004.9  
 4403 9.5 155750.3 -2031.7  
 4404 9.1 155757.6 -2050.5

4405 4.7 155819.7 -2016.6  
 4406 9.5 155820.5 -2045.3  
 4407 9.1 155828.5 -2054.1  
 4408 5.0 155854.6 -2027.7  
 4409 8.5 155856.5 -2032.3  
 4410 9.5 155912.6 -2034.9  
 4411 10. 155925.5 -2050.0  
 4412 9.2 155937.1 -2023.3  
 4413 9.0 155941.6 -2026.2  
 4414 8.5 160005.1 -2021.9

4415 9.8 160043.5 -2038.2  
 4416 9.5 160053.0 -2032.7  
 4417 8.3 160105.6 -2013.4  
 4418 9.4 160107.1 -2026.9  
 4419 9.8 160139.4 -2048.6  
 4420 9.5 160141.1 -2012.0  
 4421 9.6 160208.3 -2001.3  
 4422 9.1 160210.0 -2019.7  
 4423 8.9 160229.6 -2000.2  
 4424 9.3 160229.9 -2054.5

4425 9.4 160237.5 -2019.4  
 4426 9.6 160253.5 -2015.6  
 4427 10. 160303.0 -2027.3  
 4428 8.7 160320.4 -2041.0  
 4429 9.0 160324.6 -2043.6  
 4430 9.8 160326.4 -2050.9  
 4431 9.5 160328.2 -2027.4  
 4432 9.8 160346.9 -2047.8  
 4433 9.4 160410.0 -2039.1  
 4434 9.0 160412.7 -2049.1

4435 10. 160417.4 -2056.0  
 4436 9.5 160417.9 -2056.7  
 4437 10. 160451.0 -2018.2  
 4438 9.3 160454.1 -2048.9  
 4439 10. 160454.8 -2054.9  
 4440 10. 160505.0 -2021.7  
 4441 9.6 160519.3 -2059.5  
 4442 9.5 160548.3 -2059.2  
 4443 10. 160555.8 -2002.8  
 4444 6.8 160556.9 -2043.8

4445 9.5 160615.3 -2051.7  
 4446 9.8 160651.8 -2048.4  
 4447 9.5 160751.8 -2055.5  
 4448 9.8 160808.4 -2013.6  
 4449 9.8 160808.8 -2038.0  
 4450 10. 160811.3 -2049.6  
 4451 9.7 160817.3 -2055.1  
 4452 9.8 160820.6 -2044.0  
 4453 9.2 160822.9 -2025.3  
 4454 6.8 160826.8 -2056.2

4455 9.5 160904.6 -2047.9  
 4456 9.6 160917.8 -2050.4  
 4457 9.5 160934.7 -2058.5  
 4458 9.6 160935.4 -2029.4  
 4459 9.2 160947.9 -2015.1  
 4460 9.3 161003.2 -2055.0  
 4461 9.8 161022.8 -2007.8  
 4462 10. 161057.0 -2014.8  
 4463 9.7 161109.0 -2053.8  
 4464 8.0 161124.3 -2025.1

4465 9.7 161141.2 -2056.0  
 4466 9.7 161155.4 -2050.2  
 4467 10. 161204.0 -2048.4  
 4468 9.1 161211.3 -2035.9  
 4469 9.5 161226.7 -2035.9  
 4470 9.1 161227.7 -2058.3  
 4471 9.5 161241.8 -2020.3  
 4472 9.4 161245.9 -2054.9  
 4473 10. 161250.2 -2054.8  
 4474 10. 161318.2 -2056.1

4475 10. 161322.9 -2010.8  
 4476 9.8 161325.1 -2000.8  
 4477 10. 161341.5 -2040.5  
 4478 9.4 161354.6 -2041.5  
 4479 9.8 161402.9 -2041.3  
 4480 9.5 161410.8 -2010.2  
 4481 9.9 161413.3 -2015.6  
 4482 8.8 161438.1 -2055.9  
 4483 9.1 161503.3 -2003.9  
 4484 9.8 161513.9 -2006.8

4485 10. 161531.7 -2036.1  
 4486 9.5 161547.6 -2057.1  
 4487 9.8 161605.3 -2019.2  
 4488 9.6 161700.6 -2008.2  
 4489 10. 161717.2 -2020.5  
 4490 9.8 161737.8 -2007.0  
 4491 9.8 161827.1 -2050.5  
 4492 9.1 161918.6 -2035.7  
 4493 9.8 161932.0 -2055.8  
 4494 9.8 162013.2 -2055.4

4495 9.1 162020.1 -2028.7  
 4496 9.5 162041.7 -2026.4  
 4497 9.2 162045.0 -2049.6  
 4498 9.9 162137.8 -2033.8  
 4499 9.5 162153.4 -2001.9  
 4500 10. 162159.6 -2028.8  
 4501 8.9 162219.1 -2050.2  
 4502 9.9 162222.7 -2059.1  
 4503 9.5 162310.2 -2015.5  
 4504 9.7 162315.0 -2043.3

4505 9.0 162348.7 -2028.3  
 4506 8.5 162352.8 -2026.2  
 4507 9.3 162409.3 -2040.3  
 4508 10. 162421.5 -2010.3  
 4509 9.0 162424.3 -2000.6  
 4510 10. 162508.5 -2034.7  
 4511 9.3 162513.1 -2011.3  
 4512 9.6 162514.3 -2011.3  
 4513 10. 162518.6 -2010.4  
 4514 9.5 162523.4 -2039.5

4515 9.6 162541.1 -2028.5  
 4516 9.5 162622.8 -2044.4  
 4517 9.4 162623.2 -2035.6  
 4518 9.1 162639.1 -2000.7  
 4519 9.4 162714.0 -2010.1  
 4520 9.6 162723.8 -2056.5  
 4521 9.4 162728.5 -2030.4  
 4522 10. 162736.6 -2020.9  
 4523 9.1 162736.8 -2024.6  
 4524 9.1 162742.9 -2047.9

4525 9.5 162802.5 -2007.8  
 4526 9.0 162811.6 -2015.0  
 4527 9.2 162845.0 -2004.6  
 4528 9.0 162850.0 -2013.2  
 4529 9.3 162918.9 -2036.5  
 4530 10. 162934.0 -2026.9  
 4531 9.7 162949.4 -2017.7  
 4532 9.3 163002.7 -2027.7  
 4533 9.5 163044.4 -2011.5  
 4534 9.8 163134.0 -2001.0

4535 9.7 163153.8 -2044.8  
 4536 8.8 163158.4 -2006.5  
 4537 6.5 163202.5 -2007.2  
 4538 9.7 163216.7 -2002.9  
 4539 9.3 163301.3 -2027.3  
 4540 9.1 163311.7 -2056.6  
 4541 9.8 163340.8 -2051.3  
 4542 9.2 163343.9 -2011.6  
 4543 9.5 163356.3 -2005.4  
 4544 9.8 163436.6 -2056.7

4545 9.4 163456.4 -2015.5  
 4546 9.2 163500.9 -2021.7  
 4547 7.5 163504.4 -2025.0  
 4548 9.5 163517.5 -2045.7  
 4549 9.3 163519.8 -2034.0  
 4550 9.6 163531.8 -2029.8  
 4551 9.8 163541.2 -2000.3  
 4552 9.5 163557.5 -2005.8  
 4553 9.5 163610.3 -2011.6  
 4554 9.6 163612.5 -2000.2

4555 9.7 163622.6 -2037.3  
 4556 10. 163638.5 -2023.3  
 4557 9.8 163711.6 -2013.2  
 4558 9.5 163853.7 -2021.1  
 4559 9.2 163927.4 -2020.5  
 4560 9.4 163931.8 -2021.4  
 4561 8.4 163937.8 -2041.0  
 4562 9.2 163944.0 -2054.1  
 4563 3.7 164027.5 -2011.7  
 4564 9.5 164028.9 -2030.3

4565 9.8 164117.1 -2022.9  
 4566 9.4 164139.7 -2023.5  
 4567 9.5 164224.3 -2007.1  
 4568 8.0 164233.2 -2022.3  
 4569 8.5 164321.6 -2038.2  
 4570 9.5 164339.0 -2028.1  
 4571 9.4 164341.7 -2033.7  
 4572 6.6 164451.9 -2010.0  
 4573 9.4 164514.5 -2052.9  
 4574 9.5 164528.4 -2021.3

4575 9.4 164540.3 -2010.8  
 4576 10. 164548.4 -2048.7  
 4577 9.4 164559.7 -2045.1  
 4578 9.4 164613.3 -2023.0  
 4579 8.6 164616.4 -2033.0  
 4580 8.8 164623.3 -2050.3  
 4581 9.2 164626.3 -2039.7  
 4582 9.8 164627.2 -2016.8  
 4583 9.5 164644.4 -2027.5  
 4584 9.8 164708.7 -2050.2

4585 9.8 164709.1 -2055.7  
 4586 9.4 164712.6 -2036.2  
 4587 9.5 164738.3 -2012.5  
 4588 9.8 164847.9 -2047.4  
 4589 9.1 164909.3 -2024.0  
 4590 9.0 164917.2 -2058.4  
 4591 9.3 164918.2 -2059.3  
 4592 9.5 164920.8 -2034.1  
 4593 9.5 164924.1 -2050.7  
 4594 8.5 164951.3 -2033.6

4595 9.8 165020.0 -2009.8  
 4596 9.5 165041.2 -2058.8  
 4597 9.6 165047.4 -2047.4  
 4598 9.7 165048.8 -2029.3  
 4599 9.0 165121.9 -2052.7  
 4600 8.5 165159.8 -2021.8  
 4601 9.5 165213.3 -2022.4  
 4602 9.5 165220.3 -2013.2  
 4603 9.1 165229.1 -2006.7  
 4604 9.3 165231.6 -2058.2

4605 9.5 165237.6 -2043.6  
 4606 7.0 165240.7 -2013.1  
 4607 9.0 165248.8 -2048.0  
 4608 9.4 165255.4 -2017.5  
 4609 9.1 165255.7 -2043.3  
 4610 9.0 165312.5 -2039.6  
 4611 9.1 165325.4 -2013.9  
 4612 7.8 165326.3 -2022.4  
 4613 9.5 165326.8 -2017.9  
 4614 9.0 165352.4 -2059.7

4615 8.9 165414.9 -2013.4  
 4616 9.5 165415.5 -2056.6  
 4617 9.4 165457.2 -2030.9  
 4618 10. 165505.0 -2038.9  
 4619 8.5 165512.8 -2010.6  
 4620 9.5 165515.1 -2006.0  
 4621 10. 165519.1 -2033.5  
 4622 9.3 165520.2 -2040.6  
 4623 8.2 165522.8 -2015.5  
 4624 8.5 165538.2 -2050.3

4625 9.7 165541.2 -2037.0  
 4626 9.7 165558.9 -2044.8  
 4627 6.5 165610.9 -2017.2  
 4628 9.0 165625.2 -2037.3  
 4629 9.5 165634.3 -2057.2  
 4630 9.4 165656.7 -2032.3  
 4631 9.3 165700.2 -2048.2  
 4632 9.5 165734.6 -2004.1  
 4633 9.5 165735.3 -2023.5  
 4634 9.8 165742.4 -2009.1

4635 9.3 165757.7 -2030.5  
 4636 9.4 165814.1 -2049.9  
 4637 9.1 165824.9 -2013.7  
 4638 9.8 165832.5 -2003.1  
 4639 9.4 165834.8 -2044.6  
 4640 9.5 165838.3 -2050.7  
 4641 9.9 165846.4 -2035.6  
 4642 9.5 165854.5 -2002.5  
 4643 9.5 165900.2 -2028.7  
 4644 9.5 165927.2 -2013.6

4645 9.5 165930.8 -2010.8  
 4646 7.8 165957.9 -2001.4  
 4647 9.5 170007.7 -2026.1  
 4648 10. 170024.6 -2000.4  
 4649 9.3 170033.3 -2016.6  
 4650 9.3 170033.8 -2034.1  
 4651 9.8 170044.8 -2054.2  
 4652 9.4 170049.3 -2016.3  
 4653 8.5 170052.2 -2034.6  
 4654 9.0 170109.3 -2011.5

4655 7.3 170121.7 -2029.2  
 4656 8.5 170130.1 -2035.7  
 4657 9.5 170153.6 -2006.6  
 4658 9.8 170213.2 -2026.6  
 4659 7.3 170228.1 -2028.1  
 4660 7.8 170228.9 -2038.6  
 4661 7.5 170245.5 -2014.2  
 4662 9.5 170256.0 -2003.0  
 4663 10. 170336.1 -2057.8  
 4664 9.5 170336.2 -2026.7

4665 9.1 170342.4 -2048.6  
 4666 9.5 170343.2 -2035.6  
 4667 9.5 170349.7 -2029.8  
 4668 9.2 170350.5 -2057.9  
 4669 9.5 170353.3 -2050.3  
 4670 9.4 170357.7 -2023.7  
 4671 9.5 170404.2 -2028.2  
 4672 9.8 170413.0 -2044.3  
 4673 9.2 170428.7 -2005.6  
 4674 9.7 170434.8 -2046.7

4675 9.7 170440.1 -2047.7  
 4676 8.5 170443.7 -2024.0  
 4677 9.0 170446.3 -2059.2  
 4678 9.5 170456.9 -2000.1  
 4679 10. 170505.2 -2046.2  
 4680 10. 170523.3 -2017.1  
 4681 9.9 170524.1 -2055.2  
 4682 9.8 170544.1 -2026.9  
 4683 9.7 170556.2 -2046.6  
 4684 9.4 170603.5 -2010.9

4685 7.9 170615.1 -2047.5  
 4686 9.2 170616.7 -2055.5  
 4687 9.5 170620.8 -2058.5  
 4688 10. 170622.3 -2052.7  
 4689 9.0 170642.9 -2005.8  
 4690 8.9 170644.1 -2007.4  
 4691 10. 170650.8 -2049.3  
 4692 9.8 170654.6 -2030.3  
 4693 9.6 170656.8 -2033.9  
 4694 9.3 170714.5 -2036.5



-20 4695 17h07m

|                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 4695 9.6 170725.7 -2021.3 | 4785 8.5 172323.9 -2005.5 | 4875 9.1 173920.2 -2014.0 | 4965 9.8 175517.3 -2059.3 |
| 4696 9.4 170728.2 -2051.6 | 4786 8.5 172328.0 -2027.8 | 4876 9.4 173945.0 -2046.1 | 4966 9.1 175526.9 -2054.7 |
| 4697 9.5 170751.6 -2001.7 | 4787 10. 172335.2 -2005.2 | 4877 9.9 173955.7 -2020.7 | 4967 9.7 175527.7 -2050.5 |
| 4698 10. 170807.8 -2037.4 | 4788 9.7 172423.3 -2044.0 | 4878 9.6 174016.8 -2018.9 | 4968 9.3 175528.5 -2046.0 |
| 4699 9.1 170814.9 -2026.1 | 4789 9.7 172432.9 -2046.5 | 4879 8.1 174048.1 -2046.5 | 4969 9.0 175535.9 -2028.1 |
| 4700 9.4 170824.0 -2059.4 | 4790 8.1 172448.0 -2040.0 | 4880 9.3 174102.0 -2044.9 | 4970 9.1 175537.4 -2039.3 |
| 4701 9.8 170824.2 -2050.5 | 4791 9.1 172451.5 -2016.0 | 4881 9.7 174125.4 -2004.4 | 4971 9.1 175540.9 -2008.3 |
| 4702 9.6 170838.6 -2006.2 | 4792 9.5 172457.8 -2040.1 | 4882 9.7 174132.2 -2039.3 | 4972 9.1 175557.4 -2059.1 |
| 4703 9.0 170847.8 -2045.7 | 4793 9.2 172509.5 -2024.3 | 4883 9.2 174149.2 -2039.3 | 4973 9.0 175557.5 -207.3  |
| 4704 9.6 170908.6 -2002.4 | 4794 9.0 172516.7 -2002.4 | 4884 9.5 174154.8 -2025.0 | 4974 9.5 175600.2 -2074.4 |
| 4705 9.0 170918.4 -2018.3 | 4795 9.8 172524.1 -2051.6 | 4885 10. 174156.3 -2032.4 | 4975 9.4 175601.7 -2009.5 |
| 4706 9.6 170920.5 -2001.4 | 4796 9.4 172535.4 -2027.8 | 4886 9.3 174210.9 -2006.3 | 4976 9.0 175604.4 -2056.6 |
| 4707 9.5 170923.1 -2046.2 | 4797 8.9 172548.2 -2000.0 | 4887 9.0 174222.8 -2012.7 | 4977 8.3 175610.2 -2049.5 |
| 4708 9.2 170935.3 -2050.7 | 4798 9.5 172552.8 -2020.0 | 4888 8.8 174235.5 -2055.1 | 4978 9.5 175613.9 -2055.7 |
| 4709 9.5 170953.2 -2014.0 | 4799 9.7 172600.5 -2003.3 | 4889 9.1 174235.0 -2036.1 | 4979 9.5 175621.9 -2031.8 |
| 4710 8.7 170954.8 -2038.4 | 4800 9.8 172601.5 -2040.6 | 4890 9.5 174313.6 -2043.7 | 4980 9.3 175640.9 -2007.3 |
| 4711 9.3 171007.6 -2029.4 | 4801 9.5 172602.0 -2057.8 | 4891 8.5 174317.3 -2023.5 | 4981 9.7 175702.8 -2042.0 |
| 4712 9.0 171011.2 -2012.3 | 4802 8.9 172603.1 -2011.0 | 4892 9.8 174317.4 -2015.0 | 4982 9.1 175720.3 -2033.6 |
| 4713 9.2 171011.4 -2020.3 | 4803 9.5 172603.9 -2057.0 | 4893 8.8 174322.9 -2008.6 | 4983 8.9 175725.5 -2057.1 |
| 4714 8.7 171011.9 -2028.6 | 4804 9.6 172605.0 -2000.7 | 4894 9.0 174324.2 -2033.3 | 4984 9.3 175737.2 -2036.7 |
| 4715 8.5 171016.9 -2020.2 | 4805 9.3 172639.3 -2032.8 | 4895 7.5 174333.6 -2002.2 | 4985 9.8 175738.1 -2012.7 |
| 4716 9.5 171018.1 -2018.8 | 4806 9.5 172642.6 -2033.4 | 4896 9.7 174339.9 -2012.6 | 4986 9.0 175751.2 -2022.5 |
| 4717 9.5 171025.2 -2008.5 | 4807 9.4 172656.6 -2045.9 | 4897 9.2 174340.2 -2033.4 | 4987 8.9 175755.4 -2027.6 |
| 4718 9.0 171026.9 -2024.3 | 4808 9.0 172657.1 -2053.4 | 4898 9.5 174351.9 -2031.3 | 4988 9.3 175801.5 -2008.1 |
| 4719 9.3 171035.6 -2007.6 | 4809 9.5 172659.0 -2011.1 | 4899 9.6 174410.7 -2046.3 | 4989 9.4 175813.7 -2020.4 |
| 4720 9.3 171037.6 -2026.8 | 4810 8.7 172701.3 -2042.7 | 4900 10. 174421.7 -2032.2 | 4990 9.3 175816.4 -2056.2 |
| 4721 9.6 171040.4 -2000.2 | 4811 9.2 172701.9 -2059.2 | 4901 8.5 174423.1 -2048.5 | 4991 9.5 175836.7 -2024.0 |
| 4722 8.9 171040.8 -2004.3 | 4812 8.9 172718.2 -2010.3 | 4902 9.4 174447.8 -2028.0 | 4992 9.6 175842.9 -2042.2 |
| 4723 9.1 171041.3 -2055.2 | 4813 8.5 172732.5 -2015.6 | 4903 9.5 174459.3 -2020.7 | 4993 9.3 175845.6 -2038.7 |
| 4724 10. 171058.8 -2048.6 | 4814 8.5 172743.6 -2052.8 | 4904 10. 174519.9 -2029.2 | 4994 9.5 175846.1 -2033.6 |
| 4725 9.8 171121.6 -2025.0 | 4815 9.9 172745.4 -2036.3 | 4905 9.8 174541.8 -2036.4 | 4995 9.1 175847.2 -2021.3 |
| 4726 9.6 171124.4 -2056.9 | 4816 9.8 172752.4 -2036.3 | 4906 9.6 174544.6 -2044.1 | 4996 9.1 175855.7 -2026.2 |
| 4727 9.8 171126.2 -2030.1 | 4817 9.3 172757.6 -2047.1 | 4907 8.1 174600.6 -2059.2 | 4997 9.8 175856.9 -2049.6 |
| 4728 10. 171128.7 -2004.6 | 4818 7.9 172807.2 -2051.3 | 4908 9.3 174616.5 -2057.5 | 4998 9.5 175857.7 -2047.2 |
| 4729 9.4 171128.8 -2013.9 | 4819 9.3 172824.9 -2034.4 | 4909 8.7 174623.3 -2022.3 | 4999 9.5 175901.6 -2028.5 |
| 4730 9.5 171158.6 -2058.0 | 4820 9.2 172825.4 -2036.6 | 4910 9.9 174629.3 -2033.7 | 5000 9.7 175919.5 -2043.7 |
| 4731 5.0 171219.2 -2057.3 | 4821 9.4 172847.0 -2000.6 | 4911 9.5 174641.7 -2015.6 | 5001 9.5 175936.6 -2009.2 |
| 4732 9.0 171219.3 -2012.6 | 4822 9.7 172848.7 -2002.5 | 4912 9.8 174647.4 -2055.5 | 5002 9.3 175938.2 -2051.6 |
| 4733 9.8 171225.4 -2003.9 | 4823 8.2 172852.4 -2035.4 | 4913 9.5 174700.0 -2042.2 | 5003 7.8 180004.6 -2005.8 |
| 4734 9.0 171228.2 -2018.8 | 4824 9.3 172855.1 -2009.8 | 4914 9.8 174700.9 -2000.4 | 5004 10. 180007.7 -2045.5 |
| 4735 9.5 171229.7 -2044.1 | 4825 9.0 172900.0 -2056.7 | 4915 9.2 174733.5 -2041.6 | 5005 8.7 180013.2 -2056.1 |
| 4736 9.0 171230.4 -2019.9 | 4826 8.8 172912.1 -2033.9 | 4916 9.8 174734.5 -2019.8 | 5006 9.0 180019.5 -2038.7 |
| 4737 9.6 171251.2 -2046.8 | 4827 9.8 172918.6 -2045.5 | 4917 9.3 174750.9 -2048.0 | 5007 9.1 180023.1 -2002.3 |
| 4738 9.5 171252.7 -2008.5 | 4828 9.0 172930.4 -2027.5 | 4918 9.3 174752.9 -2011.1 | 5008 9.2 180027.7 -2057.5 |
| 4739 9.2 171254.3 -2048.1 | 4829 9.8 173001.5 -2017.5 | 4919 9.4 174755.0 -2022.3 | 5009 9.5 180041.2 -2012.9 |
| 4740 8.5 171304.2 -2005.1 | 4830 9.0 173007.3 -2051.7 | 4920 9.5 174802.3 -2024.5 | 5010 9.8 180048.3 -2036.6 |
| 4741 9.4 171314.7 -2016.5 | 4831 9.0 173009.9 -2039.0 | 4921 9.0 174808.8 -2050.4 | 5011 8.3 180049.7 -2003.2 |
| 4742 7.3 171315.1 -2024.9 | 4832 9.5 173031.3 -2041.7 | 4922 8.8 174836.2 -2010.7 | 5012 9.3 180101.9 -2051.3 |
| 4743 9.1 171317.7 -2042.8 | 4833 8.8 173039.6 -2037.4 | 4923 9.5 174858.0 -2021.1 | 5013 9.4 180110.6 -2004.0 |
| 4744 8.5 171326.6 -2035.8 | 4834 9.5 173040.2 -2046.2 | 4924 8.5 174859.3 -2036.0 | 5014 9.2 180134.6 -2029.3 |
| 4745 9.3 171339.0 -042.9  | 4835 9.6 173052.2 -2049.9 | 4925 9.4 174913.2 -2026.9 | 5015 9.5 180147.0 -2055.2 |
| 4746 9.3 171346.1 -1059.9 | 4836 9.2 173101.1 -2034.5 | 4926 9.4 174917.6 -2003.4 | 5016 10. 180157.6 -2003.8 |
| 4747 8.5 171358.7 -2040.4 | 4837 9.8 173123.4 -2024.3 | 4927 8.9 174925.3 -2034.1 | 5017 9.5 180203.1 -2022.0 |
| 4748 8.3 171406.5 -2005.2 | 4838 9.8 173129.6 -2001.3 | 4928 9.8 174942.5 -2046.3 | 5018 9.0 180226.9 -2054.2 |
| 4749 9.5 171410.2 -2015.4 | 4839 9.4 173144.2 -2041.8 | 4929 9.0 174950.8 -2015.2 | 5019 9.2 180240.7 -2012.3 |
| 4750 8.1 171422.0 -2004.4 | 4840 9.2 173147.6 -2040.8 | 4930 9.8 175001.7 -2005.9 | 5020 8.5 180245.2 -2043.9 |
| 4751 10. 171434.7 -2030.9 | 4841 9.2 173157.5 -2005.0 | 4931 9.3 175003.8 -2029.4 | 5021 10. 180253.8 -2054.0 |
| 4752 9.2 171442.2 -2005.0 | 4842 8.2 173212.5 -2046.8 | 4932 9.3 175017.5 -2051.4 | 5022 10. 180259.6 -2007.1 |
| 4753 9.8 171456.0 -2054.1 | 4843 9.5 173228.0 -2055.5 | 4933 9.3 175019.5 -2050.2 | 5023 9.5 180305.2 -2030.2 |
| 4754 9.6 171500.1 -2050.0 | 4844 9.5 173254.0 -2007.5 | 4934 8.0 175027.1 -2002.6 | 5024 9.0 180312.4 -2036.0 |
| 4755 9.7 171512.2 -2033.8 | 4845 9.8 173312.5 -2045.3 | 4935 9.5 175035.9 -2041.2 | 5025 9.3 180313.7 -2022.1 |
| 4756 9.7 171516.2 -2009.8 | 4846 9.5 173312.7 -2023.5 | 4936 9.6 175102.0 -2003.1 | 5026 9.3 180319.6 -2012.1 |
| 4757 9.7 171516.9 -2016.7 | 4847 9.9 173354.1 -2045.8 | 4937 9.4 175119.1 -2026.5 | 5027 7.5 180319.7 -2027.0 |
| 4758 9.5 171520.1 -2022.2 | 4848 7.9 173355.4 -2001.4 | 4938 10. 175120.8 -2019.5 | 5028 9.7 180334.9 -2043.5 |
| 4759 9.1 171528.4 -2003.7 | 4849 9.7 173402.4 -2046.9 | 4939 9.6 175122.2 -2041.5 | 5029 10. 180344.8 -2049.9 |
| 4760 9.8 171530.1 -2057.3 | 4850 10. 173416.1 -2058.6 | 4940 6.5 175122.9 -2019.4 | 5030 9.0 180402.6 -2029.1 |
| 4761 9.8 171534.1 -2032.0 | 4851 9.8 173416.3 -2057.4 | 4941 9.4 175132.7 -2001.5 | 5031 9.8 180408.2 -2024.9 |
| 4762 8.8 171606.7 -2017.9 | 4852 9.1 173421.7 -2040.8 | 4942 9.5 175136.4 -2043.8 | 5032 9.4 180410.5 -2009.8 |
| 4763 9.7 171610.2 -2023.3 | 4853 9.8 173437.5 -2051.5 | 4943 9.7 175140.4 -2043.5 | 5033 9.0 180413.0 -2034.3 |
| 4764 9.7 171616.0 -2013.7 | 4854 9.4 173441.4 -2022.5 | 4944 8.0 175217.5 -2058.8 | 5034 9.3 180423.9 -2043.3 |
| 4765 9.3 171626.2 -2013.7 | 4855 9.2 173451.4 -2030.7 | 4945 8.2 175226.2 -2047.2 | 5035 10. 180428.1 -2003.4 |
| 4766 8.8 171647.8 -2042.8 | 4856 9.5 173505.6 -2058.1 | 4946 8.8 175228.4 -2030.0 | 5036 9.6 180428.2 -2025.7 |
| 4767 9.0 171655.7 -2011.1 | 4857 9.8 173512.3 -2040.7 | 4947 9.0 175255.3 -2039.0 | 5037 9.2 180433.0 -2025.7 |
| 4768 8.8 171713.5 -2038.5 | 4858 9.7 173519.1 -2053.9 | 4948 9.8 175324.1 -2033.6 | 5038 9.4 180433.5 -2027.4 |
| 4769 9.8 171715.1 -2059.2 | 4859 9.4 173522.0 -2019.1 | 4949 9.5 175346.6 -2028.5 | 5039 9.5 180502.6 -2031.1 |
| 4770 8.9 171810.4 -2036.9 | 4860 9.6 173524.3 -2038.7 | 4950 9.7 175351.7 -2056.1 | 5040 9.5 180507.1 -2007.3 |
| 4771 8.5 171838.1 -2010.7 | 4861 9.5 173540.9 -2045.9 | 4951 9.5 175355.3 -2039.3 | 5041 10. 180510.0 -2031.2 |
| 4772 9.4 171838.3 -2020.3 | 4862 9.5 173543.4 -2029.8 | 4952 6.5 175358.3 -2043.9 | 5042 9.1 180525.6 -2041.0 |
| 4773 8.0 171845.6 -2023.5 | 4863 9.3 173613.8 -2027.2 | 4953 9.5 175417.6 -2042.5 | 5043 9.4 180525.9 -2020.3 |
| 4774 9.5 171903.9 -2046.1 | 4864 9.4 173620.4 -2042.9 | 4954 9.5 175422.1 -2042.7 | 5044 9.4 180552.9 -2030.1 |
| 4775 7.8 171937.7 -2050.1 | 4865 8.2 173704.0 -2008.9 | 4955 9.5 175424.6 -2018.2 | 5045 9.4 180553.4 -2055.5 |
| 4776 8.5 171948.1 -2014.4 | 4866 9.5 173707.7 -2001.4 | 4956 9.4 175426.2 -2022.1 | 5046 9.5 180555.7 -2020.0 |
| 4777 9.5 172004.0 -2003.0 | 4867 9.5 173740.9 -2029.7 | 4957 9.0 175430.3 -2025.6 | 5047 9.3 180559.7 -2018.4 |
| 4778 9.4 172024.5 -2037.9 | 4868 9.6 173805.5 -2023.6 | 4958 9.1 175435.0 -2056.2 | 5048 9.5 180600.8 -2004.1 |
| 4779 10. 172029.3 -2004.8 | 4869 9.1 173821.7 -2012.5 | 4959 9.5 175449.9 -2054.6 | 5049 9.4 180605.8 -2045.6 |
| 4780 9.8 172046.6 -2023.0 | 4870 9.0 173821.8 -2038.2 | 4960 9.4 175453.7 -2028.1 | 5050 9.4 180613.2 -2024.9 |
| 4781 9.5 172103.2 -2004.5 | 4871 9.5 173828.9 -2003.3 | 4961 9.0 175458.9 -2050.2 | 5051 8.7 180622.4 -2054.5 |
| 4782 9.7 172155.2 -2029.2 | 4872 9.5 173840.4 -2027.1 | 4962 9.5 175504.2 -2012.5 | 5052 9.5 180626.7 -2032.8 |
| 4783 10. 172235.0 -2008.1 | 4873 9.3 173850.4 -2026.9 | 4963 10. 175507.5 -2048.5 | 5053 9.6 180629.5 -2048.8 |
| 4784 8.8 172248.3 -2045.8 | 4874 7.0 173852.2 -2046.8 | 4964 9.5 175508.8 -2025.3 | 5054 5.8 180633.2 -2046.1 |



-20 5055 18h06m

5055 6.5 180634.9 -2025.7  
5056 9.8 180646.5 -2040.9  
5057 9.1 180652.2 -2023.1  
5058 9.4 180654.0 -2056.2  
5059 9.0 180655.2 -2030.2  
5060 9.0 180659.7 -2023.2  
5061 9.5 180700.9 -2043.8  
5062 9.0 180702.8 -2038.3  
5063 8.5 180705.4 -2013.5  
5064 9.8 180717.8 -2052.1  
  
5065 9.2 180721.8 -2003.3  
5066 9.7 180731.3 -2059.7  
5067 9.5 180747.4 -2013.1  
5068 7.3 180757.7 -2035.1  
5069 9.2 180812.2 -2035.2  
5070 9.5 180819.6 -2018.3  
5071 9.5 180823.9 -2058.2  
5072 9.5 180833.1 -2020.0  
5073 10. 180839.9 -2026.0  
5074 10. 180849.5 -2028.9  
  
5075 9.1 180855.2 -2041.6  
5076 9.7 180857.5 -2033.4  
5077 9.0 180857.9 -2038.1  
5078 9.1 180915.0 -2043.0  
5079 9.4 180920.1 -2017.5  
5080 9.7 180931.5 -2036.0  
5081 9.3 180936.5 -2034.7  
5082 9.5 180937.4 -2017.0  
5083 9.1 181002.5 -2005.8  
5084 9.1 181007.6 -2048.1  
  
5085 9.1 181013.6 -2008.5  
5086 9.2 181028.7 -2012.0  
5087 9.8 181044.0 -2057.5  
5088 9.5 181045.5 -2003.8  
5089 9.6 181103.3 -2006.2  
5090 9.5 181109.2 -2027.3  
5091 9.4 181117.1 -2017.9  
5092 10. 181135.0 -2059.3  
5093 10. 181137.6 -2014.8  
5094 9.2 181137.9 -2025.3  
  
5095 9.1 181141.8 -2034.1  
5096 9.4 181144.0 -2026.9  
5097 8.0 181156.2 -2016.2  
5098 9.5 181206.7 -2030.7  
5099 9.5 181229.1 -2015.5  
5100 8.7 181231.2 -2020.7  
5101 9.5 181236.5 -2058.4  
5102 9.5 181238.0 -2054.1  
5103 9.8 181256.6 -2013.7  
5104 9.1 181259.8 -2007.0  
  
5105 9.3 181325.6 -2016.2  
5106 9.5 181327.7 -2036.6  
5107 9.1 181338.2 -2045.9  
5108 8.7 181344.1 -2007.7  
5109 9.3 181345.7 -2022.4  
5110 9.6 181350.2 -2027.9  
5111 9.4 181355.9 -2033.4  
5112 9.6 181403.0 -2039.7  
5113 9.7 181407.8 -2030.1  
5114 9.8 181408.1 -2026.5  
  
5115 9.1 181428.6 -2012.7  
5116 9.0 181437.3 -2038.4  
5117 10. 181440.5 -2052.6  
5118 8.0 181441.7 -2043.3  
5119 9.4 181442.9 -2032.3  
5120 9.8 181458.4 -2054.3  
5121 9.5 181517.8 -2039.1  
5122 9.4 181519.1 -2047.6  
5123 9.2 181532.2 -2024.6  
5124 8.9 181536.7 -2023.7  
  
5125 9.3 181547.0 -2056.6  
5126 9.5 181552.1 -2011.9  
5127 9.2 181604.0 -2016.6  
5128 10. 181608.0 -2057.5  
5129 8.5 181618.0 -2051.2  
5130 9.5 181619.1 -2007.1  
5131 9.5 181622.2 -2013.4  
5132 9.4 181632.4 -2039.5  
5133 9.9 181641.3 -2009.2  
5134 5.4 181643.1 -2036.9  
  
5135 9.4 181644.9 -2001.0  
5136 9.5 181653.5 -2052.2  
5137 9.5 181718.4 -2038.7  
5138 9.7 181723.9 -2049.6  
5139 9.3 181736.8 -2042.4  
5140 9.1 181754.2 -2021.4  
5141 9.0 181755.0 -2056.1  
5142 9.5 181840.2 -2014.5  
5143 9.3 181848.7 -2029.0  
5144 9.4 181906.2 -2012.5

5145 9.1 181917.6 -2001.5  
5146 9.0 181926.8 -2053.6  
5147 8.7 181928.4 -2052.7  
5148 8.9 181928.8 -2047.3  
5149 9.3 181938.7 -2026.2  
5150 10. 181953.9 -2044.6  
5151 10. 181954.9 -2041.1  
5152 9.5 181955.5 -2053.2  
5153 9.0 182012.2 -2015.1  
5154 9.5 182029.4 -2043.8  
  
5155 9.7 182031.9 -2054.1  
5156 9.3 182053.9 -2017.9  
5157 9.4 182054.0 -2011.8  
5158 9.5 182133.3 -2001.9  
5159 9.1 182143.2 -2054.8  
5160 7.5 182156.3 -2022.8  
5161 9.2 182201.1 -2057.1  
5162 9.8 182211.6 -2052.9  
5163 9.2 182225.9 -2002.6  
5164 9.1 182249.8 -2058.2  
  
5165 9.2 182308.4 -2009.5  
5166 9.5 182308.8 -2054.0  
5167 10. 182319.9 -2048.8  
5168 9.0 182325.5 -2046.0  
5169 8.7 182325.6 -2003.1  
5170 9.5 182327.4 -2040.3  
5171 9.8 182336.2 -2007.9  
5172 9.0 182340.8 -2049.8  
5173 9.8 182407.9 -2056.5  
5174 9.5 182409.2 -2019.0  
  
5175 9.2 182418.6 -2045.3  
5176 9.1 182420.1 -2029.1  
5177 9.7 182428.0 -2021.5  
5178 9.7 182443.6 -2058.6  
5179 8.0 182452.3 -2028.2  
5180 9.0 182454.5 -2043.4  
5181 9.4 182458.0 -2035.4  
5182 9.5 182501.7 -2014.8  
5183 10. 182508.2 -2034.6  
5184 9.1 182508.7 -2022.4  
  
5185 9.0 182529.3 -2023.1  
5186 9.6 182529.9 -2002.8  
5187 9.2 182601.2 -2019.4  
5188 9.4 182607.9 -2059.1  
5189 6.5 182642.4 -2057.3  
5190 9.1 182643.1 -2018.2  
5191 9.0 182650.4 -2048.5  
5192 9.4 182654.8 -2023.6  
5193 9.4 182726.9 -2017.1  
5194 9.8 182746.0 -2047.3  
  
5195 9.8 182802.0 -2035.6  
5196 7.3 182802.1 -2025.5  
5197 9.0 182806.8 -2026.6  
5198 9.5 182810.2 -2000.9  
5199 8.5 182810.5 -2017.7  
5200 9.6 182821.0 -2021.7  
5201 9.4 182826.1 -2034.1  
5202 9.6 182830.0 -2045.5  
5203 9.6 182831.5 -2043.0  
5204 9.2 182837.3 -2009.8  
  
5205 9.5 182838.3 -2011.9  
5206 9.6 182841.1 -2040.7  
5207 9.4 182844.9 -2027.3  
5208 9.5 182846.5 -2005.0  
5209 9.1 182902.1 -2011.2  
5210 9.8 182929.2 -2009.7  
5211 9.5 182934.3 -2022.8  
5212 9.9 182939.7 -2009.0  
5213 9.6 182944.6 -2046.4  
5214 9.3 182948.0 -2018.8  
  
5215 9.4 182948.2 -2028.4  
5216 9.5 182957.8 -2027.7  
5217 9.2 183015.9 -2024.1  
5218 9.1 183026.7 -2008.1  
5219 9.5 183030.1 -2045.0  
5220 8.5 183035.3 -2027.5  
5221 9.1 183108.0 -2051.9  
5222 9.2 183112.4 -2059.5  
5223 6.5 183117.9 -2011.5  
5224 8.6 183118.1 -2047.7  
  
5225 9.1 183120.7 -2014.0  
5226 9.4 183156.2 -2026.1  
5227 9.1 183200.3 -2040.9  
5228 9.0 183213.9 -2037.6  
5229 9.8 183233.8 -2041.8  
5230 10. 183258.1 -2055.9  
5231 9.5 183302.2 -2016.4  
5232 9.0 183320.6 -2005.7  
5233 10. 183323.9 -2054.3  
5234 10. 183328.4 -2041.9

5235 9.5 183335.3 -2050.1  
5236 9.3 183339.2 -2054.1  
5237 8.7 183340.4 -2039.2  
5238 9.8 183341.8 -2025.4  
5239 9.3 183343.1 -2041.1  
5240 7.4 183349.2 -2026.2  
5241 9.5 183352.7 -2028.7  
5242 9.4 183358.4 -2005.5  
5243 9.0 183502.7 -2021.5  
5244 8.3 183520.0 -2001.6  
  
5245 9.3 183528.7 -2003.5  
5246 9.1 183542.2 -2021.8  
5247 9.2 183549.5 -2012.9  
5248 9.8 183605.7 -2017.6  
5249 9.8 183609.8 -2045.3  
5250 9.1 183625.5 -2059.2  
5251 9.1 183628.0 -2000.5  
5252 9.3 183632.8 -2035.8  
5253 8.0 183639.9 -2047.0  
5254 9.0 183643.5 -2023.0  
  
5255 8.7 183648.0 -2055.9  
5256 9.6 183655.0 -2001.9  
5257 9.4 183655.3 -2006.3  
5258 9.5 183725.7 -2030.5  
5259 9.3 183729.1 -2006.7  
5260 9.1 183735.4 -2055.4  
5261 9.5 183751.8 -2001.1  
5262 9.0 183755.7 -2022.1  
5263 9.3 183756.9 -2042.2  
5264 8.7 183821.3 -2036.8  
  
5265 9.0 183828.8 -2032.6  
5266 9.4 183858.6 -2023.3  
5267 8.7 183903.7 -2001.0  
5268 7.0 183915.9 -2025.3  
5269 9.6 183923.8 -2057.0  
5270 9.6 183928.9 -2035.1  
5271 10. 184013.0 -2026.2  
5272 8.0 184014.5 -2018.4  
5273 9.5 184024.1 -2034.6  
5274 9.5 184053.3 -2048.5  
  
5275 9.1 184053.8 -2035.6  
5276 9.5 184100.3 -2046.4  
5277 5.3 184103.3 -2028.4  
5278 8.3 184112.0 -2010.0  
5279 9.5 184112.8 -2044.9  
5280 9.5 184152.4 -2001.6  
5281 9.2 184158.2 -2059.6  
5282 8.8 184205.3 -2047.5  
5283 9.1 184206.6 -2026.2  
5284 9.4 184209.4 -2003.8  
  
5285 9.5 184218.5 -2051.4  
5286 7.8 184223.7 -2027.6  
5287 9.1 184227.8 -2018.8  
5288 8.3 184229.9 -2027.9  
5289 9.9 184241.2 -2043.9  
5290 9.5 184247.7 -2023.1  
5291 9.2 184251.4 -2036.3  
5292 9.8 184255.1 -2056.5  
5293 9.3 184303.6 -2041.3  
5294 9.4 184305.2 -2022.0  
  
5295 8.2 184324.7 -2032.8  
5296 9.5 184326.3 -2025.3  
5297 8.9 184326.7 -2046.5  
5298 9.5 184328.6 -2030.0  
5299 8.8 184328.8 -2014.5  
5300 9.8 184335.8 -2019.6  
5301 8.7 184339.2 -2029.1  
5302 8.5 184340.4 -2022.3  
5303 9.7 184343.4 -2042.3  
5304 8.7 184351.9 -2027.7  
  
5305 9.3 184352.0 -2045.1  
5306 8.3 184355.3 -2008.7  
5307 9.0 184358.9 -2041.9  
5308 8.5 184406.2 -2024.2  
5309 9.3 184411.7 -2005.4  
5310 8.9 184416.3 -2041.2  
5311 9.6 184425.3 -2057.1  
5312 10. 184431.3 -2039.8  
5313 9.3 184431.7 -2050.1  
5314 10. 184454.4 -2037.4  
  
5315 9.1 184510.1 -2059.9  
5316 8.9 184511.0 -2034.8  
5317 8.9 184516.3 -2007.6  
5318 9.6 184517.2 -2028.2  
5319 9.7 184523.8 -2026.2  
5320 10. 184540.8 -2021.8  
5321 8.3 184543.4 -2006.6  
5322 9.2 184555.5 -2006.3  
5323 9.3 184556.8 -2007.4  
5324 9.3 184557.6 -2002.0

5325 10. 184611.7 -2033.8  
5326 9.0 184613.8 -2001.9  
5327 9.2 184614.5 -2003.7  
5328 8.7 184621.7 -2028.1  
5329 8.0 184636.2 -2026.0  
5330 9.3 184643.1 -2012.6  
5331 10. 184652.1 -2052.4  
5332 10. 184655.8 -2050.2  
5333 7.8 184708.2 -2011.4  
5334 9.7 184727.6 -2045.0  
  
5335 10. 184740.1 -2034.4  
5336 10. 184816.0 -2032.8  
5337 9.3 184834.1 -2028.1  
5338 9.0 184839.8 -2027.2  
5339 5.5 184844.1 -2050.4  
5340 10. 184911.9 -2008.9  
5341 9.2 184920.6 -2000.6  
5342 9.8 184920.7 -2027.3  
5343 10. 184930.4 -2047.4  
5344 7.8 184934.6 -2036.5  
  
5345 9.7 184944.8 -2047.1  
5346 9.6 184948.2 -2042.1  
5347 9.7 184951.3 -2023.4  
5348 9.0 185007.8 -2050.3  
5349 9.5 185009.6 -2002.1  
5350 10. 185011.8 -2039.0  
5351 9.0 185033.3 -2041.9  
5352 9.4 185036.4 -2017.1  
5353 9.3 185040.4 -2016.7  
5354 9.5 185107.5 -2054.4  
  
5355 9.4 185108.7 -2026.5  
5356 9.5 185122.8 -2051.0  
5357 9.2 185128.3 -2059.9  
5358 8.9 185151.5 -2004.6  
5359 9.5 185154.4 -2039.4  
5360 9.0 185202.3 -2048.8  
5361 9.2 185209.7 -2003.1  
5362 9.5 185213.0 -2001.8  
5363 9.8 185227.4 -2035.6  
5364 8.9 185230.5 -2005.4  
  
5365 9.4 185231.4 -2003.6  
5366 9.8 185236.7 -2057.5  
5367 9.8 185237.4 -2032.3  
5368 9.8 185256.5 -2050.9  
5369 8.9 185303.2 -2001.5  
5370 9.5 185303.9 -2020.8  
5371 9.5 185323.8 -2055.2  
5372 9.0 185328.0 -2033.5  
5373 9.4 185342.8 -2029.8  
5374 9.7 185347.4 -2042.4  
  
5375 9.4 185349.0 -2043.8  
5376 8.8 185304.5 -2038.2  
5377 8.5 185307.1 -2036.5  
5378 9.0 185322.2 -2000.7  
5379 8.3 185329.4 -2055.8  
5380 9.7 185338.9 -2045.3  
5381 7.8 185345.0 -2019.7  
5382 8.9 185350.8 -2047.1  
5383 8.6 185351.2 -2053.2  
5384 9.5 185521.7 -2000.6  
  
5385 9.0 185522.7 -2039.0  
5386 9.5 185528.4 -2058.6  
5387 9.6 185542.2 -2042.4  
5388 8.3 185543.0 -2021.4  
5389 9.2 185607.1 -2043.0  
5390 9.4 185609.5 -2033.7  
5391 9.4 185628.2 -2001.8  
5392 9.4 185726.0 -2008.2  
5393 9.3 185746.4 -2049.5  
5394 9.8 185806.8 -2045.6  
  
5395 8.3 185826.5 -2011.9  
5396 9.9 185826.8 -2019.0  
5397 10. 185829.2 -2041.2  
5398 9.0 185842.5 -2044.1  
5399 9.8 185904.5 -2043.7  
5400 9.5 185916.8 -2046.8  
5401 9.5 185926.1 -2016.9  
5402 9.0 185944.5 -2030.6  
5403 9.7 185950.0 -2008.1  
5404 9.1 185950.7 -2004.9  
  
5405 9.4 185951.7 -2030.2  
5406 9.8 185957.1 -2008.8  
5407 8.8 190014.5 -2026.4  
5408 8.2 190019.1 -2002.5  
5409 8.0 190027.6 -2013.5  
5410 9.0 190030.8 -2024.3  
5411 9.6 190055.5 -2012.2  
5412 9.3 190104.8 -2056.1  
5413 8.0 190105.2 -2016.2  
5414 8.8 190107.5 -2037.9

-20 5414 19h01m



5415 6.5 190115.7 -2001.4  
 5416 8.9 190117.2 -2040.8  
 5417 9.8 190123.7 -2035.3  
 5418 8.2 190155.5 -2053.8  
 5419 9.1 190202.7 -2020.4  
 5420 9.5 190204.8 -2016.0  
 5421 9.5 190210.7 -2017.5  
 5422 9.4 190220.8 -2011.5  
 5423 8.5 190223.8 -2012.7  
 5424 9.8 190232.1 -2016.2

5425 9.4 190232.8 -2046.7  
 5426 9.4 190236.1 -2025.0  
 5427 9.3 190239.9 -2056.0  
 5428 7.8 190244.1 -2034.6  
 5429 8.9 190304.3 -2008.9  
 5430 9.4 190307.3 -2013.2  
 5431 9.4 190316.0 -2031.8  
 5432 8.3 190317.5 -2036.9  
 5433 9.0 190323.4 -2029.6  
 5434 8.9 190326.8 -2011.9

5435 9.2 190331.7 -2038.4  
 5436 9.5 190341.9 -2000.3  
 5437 10. 190343.7 -2039.3  
 5438 9.0 190347.3 -2010.1  
 5439 9.5 190356.0 -2058.5  
 5440 9.6 190403.8 -2045.2  
 5441 8.5 190406.4 -2027.5  
 5442 9.6 190406.4 -2042.5  
 5443 9.5 190406.8 -2017.6  
 5444 9.2 190413.4 -2046.6

5445 9.4 190419.3 -2043.7  
 5446 8.3 190429.2 -2025.7  
 5447 9.8 190434.3 -2015.2  
 5448 7.9 190434.7 -2039.7  
 5449 9.3 190456.7 -2026.5  
 5450 9.7 190500.2 -2052.4  
 5451 9.1 190510.2 -2026.0  
 5452 9.6 190512.0 -2042.0  
 5453 9.5 190522.2 -2000.7  
 5454 9.3 190529.3 -2009.7

5455 9.5 190530.0 -2022.0  
 5456 9.4 190531.5 -2057.9  
 5457 9.9 190543.5 -2044.1  
 5458 9.5 190605.0 -2002.0  
 5459 9.1 190608.3 -2009.5  
 5460 9.0 190617.3 -2016.9  
 5461 9.5 190619.8 -2056.9  
 5462 9.5 190627.0 -2042.3  
 5463 9.5 190637.6 -2049.1  
 5464 7.3 190654.0 -2002.2

5465 10. 190703.8 -2056.5  
 5466 9.8 190704.3 -2014.0  
 5467 9.8 190711.6 -2031.8  
 5468 8.4 190734.0 -2042.1  
 5469 9.6 190748.7 -2053.5  
 5470 10. 190757.3 -2050.7  
 5471 9.1 190812.0 -2045.2  
 5472 9.6 190824.9 -2050.2  
 5473 8.2 190836.9 -2048.1  
 5474 9.0 190840.6 -2057.3

5475 9.8 190844.6 -2046.8  
 5476 9.1 190846.0 -2058.2  
 5477 9.5 190850.6 -2035.8  
 5478 9.5 190857.3 -2010.5  
 5479 9.1 190903.0 -2013.4  
 5480 9.2 190904.5 -2014.3  
 5481 9.0 190923.0 -2007.4  
 5482 9.7 190923.2 -2045.0  
 5483 9.5 190931.3 -2032.5  
 5484 9.4 190934.9 -2019.6

5485 9.5 190937.1 -2000.9  
 5486 8.3 190946.4 -2041.7  
 5487 9.5 191007.2 -2033.0  
 5488 9.9 191019.7 -2055.3  
 5489 9.5 191031.3 -2057.5  
 5490 9.5 191031.3 -2001.6  
 5491 9.0 191033.7 -2033.3  
 5492 9.1 191050.5 -2012.3  
 5493 9.2 191054.1 -2041.4  
 5494 9.4 191055.5 -2029.3

5495 9.3 191115.4 -2052.9  
 5496 9.5 191125.0 -2011.7  
 5497 9.1 191130.2 -2030.1  
 5498 9.2 191134.0 -2010.3  
 5499 9.4 191140.4 -2006.2  
 5500 9.8 191150.6 -2021.5  
 5501 9.8 191217.3 -2022.1  
 5502 9.0 191225.7 -2057.6  
 5503 10. 191232.0 -2044.7  
 5504 9.7 191242.1 -2044.4

5505 9.8 191244.6 -2033.8  
 5506 9.5 191246.5 -2006.7  
 5507 9.5 191251.4 -2001.9  
 5508 9.2 191252.2 -2009.2  
 5509 9.5 191308.8 -2043.7  
 5510 9.5 191328.2 -2031.4  
 5511 9.1 191329.5 -2048.3  
 5512 9.1 191331.2 -2036.5  
 5513 9.8 191353.6 -2040.5  
 5514 8.5 191358.3 -2035.0

5515 9.5 191404.5 -2042.2  
 5516 7.0 191405.6 -2054.4  
 5517 8.9 191410.2 -2035.5  
 5518 9.5 191425.5 -2057.4  
 5519 9.0 191427.0 -2007.2  
 5520 9.0 191438.8 -2013.9  
 5521 10. 191452.4 -2002.4  
 5522 10. 191459.9 -2011.5  
 5523 10. 191504.0 -2059.2  
 5524 9.7 191510.7 -2008.4

5525 9.0 191519.3 -2029.0  
 5526 9.8 191528.7 -2023.2  
 5527 9.8 191537.3 -2021.2  
 5528 9.0 191539.8 -2034.1  
 5529 10. 191559.0 -2029.7  
 5530 8.7 191601.3 -2026.1  
 5531 8.3 191613.7 -2052.4  
 5532 9.0 191619.2 -2058.6  
 5533 9.2 191619.4 -2013.7  
 5534 9.0 191629.1 -2059.7

5535 9.3 191633.2 -2038.5  
 5536 9.7 191639.1 -2009.5  
 5537 9.4 191644.1 -2031.4  
 5538 9.8 191655.2 -2030.8  
 5539 9.7 191656.4 -2040.7  
 5540 9.5 191702.7 -2016.0  
 5541 9.3 191707.4 -2016.3  
 5542 9.5 191715.5 -2033.9  
 5543 10. 191717.6 -2026.8  
 5544 9.8 191718.3 -2009.6

5545 8.5 191719.4 -2049.8  
 5546 9.5 191720.1 -2020.1  
 5547 9.5 191728.4 -2004.4  
 5548 9.6 191739.9 -2023.2  
 5549 9.1 191742.7 -2052.3  
 5550 9.5 191749.8 -2035.9  
 5551 8.2 191759.8 -2052.3  
 5552 9.5 191813.3 -2029.1  
 5553 9.4 191822.4 -2000.7  
 5554 9.4 191826.3 -2059.7

5555 9.5 191831.6 -2008.5  
 5556 8.5 191845.5 -2014.8  
 5557 9.0 191845.6 -2056.8  
 5558 9.8 191857.5 -2026.8  
 5559 8.2 191901.9 -2039.3  
 5560 9.8 191927.6 -2058.1  
 5561 8.2 191931.8 -2048.0  
 5562 9.8 191937.6 -2056.8  
 5563 9.8 191944.2 -2027.4  
 5564 9.6 191956.0 -2018.9

5565 9.6 191959.3 -2019.1  
 5566 9.0 192015.0 -2000.8  
 5567 9.8 192019.1 -2043.8  
 5568 9.4 192020.5 -2008.9  
 5569 9.5 192029.7 -2023.0  
 5570 9.5 192033.7 -2037.0  
 5571 9.3 192035.7 -2037.2  
 5572 9.3 192041.7 -2002.5  
 5573 9.5 192057.4 -2056.4  
 5574 9.3 192113.9 -2030.7

5575 9.4 192117.2 -2046.6  
 5576 9.1 192125.0 -2039.4  
 5577 9.1 192143.0 -2001.0  
 5578 10. 192207.1 -2026.4  
 5579 9.8 192212.9 -2016.3  
 5580 9.4 192228.0 -2021.6  
 5581 9.1 192235.0 -2039.3  
 5582 9.8 192252.7 -2007.8  
 5583 10. 192254.1 -2027.3  
 5584 8.8 192256.3 -2043.4

5585 9.5 192307.1 -2030.7  
 5586 9.1 192314.7 -2002.1  
 5587 9.5 192322.4 -2049.9  
 5588 9.5 192328.4 -2028.0  
 5589 9.8 192330.0 -2058.4  
 5590 8.0 192333.6 -2041.8  
 5591 9.5 192340.4 -2027.2  
 5592 9.6 192344.1 -2015.1  
 5593 9.6 192352.9 -2043.0  
 5594 9.0 192356.7 -2000.6

5595 9.5 192358.9 -2033.2  
 5596 9.7 192408.8 -2019.0  
 5597 9.8 192418.9 -2053.7  
 5598 9.4 192425.9 -2047.6  
 5599 9.7 192426.8 -2044.3  
 5600 9.5 192439.0 -2023.4  
 5601 9.5 192505.8 -2047.5  
 5602 9.8 192506.4 -2034.7  
 5603 9.2 192520.7 -2002.3  
 5604 10. 192524.0 -2018.5

5605 9.7 192525.1 -2003.1  
 5606 9.8 192525.8 -2001.3  
 5607 9.7 192538.9 -2048.4  
 5608 8.7 192549.6 -2019.2  
 5609 9.5 192550.4 -2027.5  
 5610 9.3 192619.4 -2029.8  
 5611 9.8 192625.9 -2044.4  
 5612 9.4 192630.4 -2029.1  
 5613 9.8 192636.1 -2048.3  
 5614 8.9 192649.0 -2005.8

5615 9.7 192654.8 -2031.6  
 5616 9.2 192710.4 -2005.3  
 5617 9.4 192716.9 -2039.9  
 5618 8.5 192741.5 -2022.8  
 5619 9.1 192819.0 -2022.6  
 5620 9.2 192826.4 -2031.1  
 5621 9.4 192829.9 -2029.8  
 5622 9.5 192837.1 -2053.8  
 5623 8.2 192838.9 -2041.4  
 5624 9.5 192839.5 -2027.3

5625 9.5 192846.0 -2014.0  
 5626 10. 192909.9 -2047.8  
 5627 9.8 192916.8 -2005.5  
 5628 9.4 192919.1 -2041.1  
 5629 9.5 192923.6 -2050.5  
 5630 9.5 192934.8 -2038.0  
 5631 9.5 192943.7 -2030.4  
 5632 9.5 192947.0 -2011.1  
 5633 9.0 192954.5 -2051.8  
 5634 9.5 192955.3 -2020.7

5635 9.5 192959.0 -2044.6  
 5636 9.0 192959.9 -2037.4  
 5637 9.5 193004.5 -2029.0  
 5638 9.0 193031.1 -2022.6  
 5639 9.5 193042.3 -2051.0  
 5640 9.8 193106.5 -2036.6  
 5641 9.5 193125.2 -2015.6  
 5642 8.0 193131.2 -2020.5  
 5643 9.2 193132.3 -2007.7  
 5644 7.8 193137.6 -2052.0

5645 9.5 193145.9 -2046.0  
 5646 9.7 193148.6 -2005.3  
 5647 9.4 193149.1 -2024.7  
 5648 9.9 193159.3 -2025.8  
 5649 10. 193206.9 -2040.6  
 5650 9.6 193214.1 -2011.7  
 5651 9.8 193227.9 -2029.9  
 5652 8.8 193230.1 -2022.2  
 5653 9.0 193232.7 -2044.0  
 5654 9.2 193238.4 -2006.9

5655 8.5 193239.6 -2041.5  
 5656 9.4 193241.1 -2028.2  
 5657 9.3 193247.3 -2009.0  
 5658 8.5 193258.1 -2025.3  
 5659 9.5 193259.7 -2020.3  
 5660 9.0 193300.2 -2001.8  
 5661 9.8 193313.7 -2020.0  
 5662 9.8 193320.9 -2038.0  
 5663 9.8 193329.5 -2012.9  
 5664 9.5 193340.0 -2011.2

5665 9.9 193351.4 -2026.0  
 5666 9.2 193351.7 -2046.3  
 5667 8.9 193410.7 -2016.7  
 5668 9.5 193414.0 -2048.6  
 5669 8.8 193415.5 -2031.9  
 5670 9.5 193423.1 -2049.4  
 5671 9.5 193427.2 -2029.5  
 5672 9.7 193430.1 -2043.3  
 5673 9.3 193440.9 -2008.5  
 5674 8.7 193451.8 -2030.2

5675 9.5 193455.5 -2030.4  
 5676 9.5 193458.0 -2014.3  
 5677 10. 193505.0 -2057.2  
 5678 9.5 193524.5 -2029.3  
 5679 9.1 193544.3 -2034.6  
 5680 9.3 193546.1 -2005.0  
 5681 9.3 193556.3 -2022.0  
 5682 9.6 193601.8 -2001.8  
 5683 9.5 193607.6 -2049.4  
 5684 9.3 193611.2 -2048.9

5685 9.5 193612.7 -2046.2  
 5686 9.3 193614.8 -2046.8  
 5687 10. 193616.6 -2008.4  
 5688 10. 193621.4 -2052.1  
 5689 9.8 193628.6 -2034.5  
 5690 9.3 193629.5 -2016.2  
 5691 10. 193647.2 -2026.9  
 5692 9.5 193653.6 -2059.2  
 5693 9.7 193711.4 -2049.7  
 5694 10. 193716.2 -2030.0

5695 9.5 193716.5 -2018.6  
 5696 10. 193716.5 -2058.2  
 5697 9.5 193741.8 -2019.7  
 5698 5.0 193754.4 -2006.3  
 5699 9.8 193755.5 -2012.4  
 5700 9.0 193755.6 -2030.9  
 5701 9.3 193802.7 -2055.5  
 5702 9.1 193810.3 -2011.3  
 5703 8.8 193832.3 -2010.2  
 5704 9.5 193836.6 -2053.9

5705 8.3 193838.3 -2014.0  
 5706 9.5 193842.6 -2054.4  
 5707 9.2 193848.4 -2008.4  
 5708 8.9 193853.6 -2013.3  
 5709 9.4 193854.6 -2027.9  
 5710 9.8 193906.0 -2044.8  
 5711 9.5 193912.6 -2017.6  
 5712 10. 193916.8 -2000.6  
 5713 10. 193917.5 -2014.9  
 5714 9.3 193920.3 -2007.8

5715 9.6 194004.1 -2025.7  
 5716 9.5 194015.1 -2038.0  
 5717 9.7 194017.0 -2042.4  
 5718 9.8 194028.5 -2046.3  
 5719 9.2 194036.7 -2021.9  
 5720 9.8 194045.0 -2040.9  
 5721 9.5 194110.9 -2011.5  
 5722 9.0 194124.6 -2033.8  
 5723 9.8 194131.9 -2052.5  
 5724 9.4 194134.2 -2055.6

5725 9.5 194143.7 -2057.5  
 5726 9.8 194158.6 -2031.1  
 5727 9.5 194226.8 -2022.4  
 5728 9.0 194242.4 -2052.3  
 5729 9.1 194242.7 -2033.8  
 5730 9.8 194251.5 -2035.1  
 5731 9.3 194253.7 -2029.3  
 5732 9.8 194256.7 -2006.5  
 5733 9.3 194300.7 -2053.5  
 5734 9.5 194309.3 -2013.5

5735 8.2 194323.0 -2003.9  
 5736 9.5 194327.7 -2045.2  
 5737 9.8 194332.6 -2037.4  
 5738 9.5 194336.3 -2020.4  
 5739 8.9 194342.7 -2036.5  
 5740 9.6 194343.7 -2005.0  
 5741 9.4 194347.9 -2043.3  
 5742 9.0 194358.0 -2014.8  
 5743 8.8 194409.6 -2019.5  
 5744 9.5 194426.4 -2016.0

5745 10. 194435.0 -2052.2  
 5746 9.5 194436.7 -2026.6  
 5747 9.0 194450.5 -2006.8  
 5748 9.5 194453.4 -2013.1  
 5749 9.6 194501.0 -2043.8  
 5750 9.5 194503.8 -2023.8  
 5751 9.8 194505.9 -2037.3  
 5752 9.0 194512.9 -2044.3  
 5753 9.4 194520.2 -2045.6  
 5754 9.6 194542.8 -2052.3

5755 9.8 194556.0 -2043.2  
 5756 9.0 194615.7 -2028.3  
 5757 9.5 194625.0 -2050.0  
 5758 9.5 194625.9 -2039.3  
 5759 8.3 194640.6 -2042.9  
 5760 9.5 194654.4 -2022.5  
 5761 9.5 194659.3 -2018.0  
 5762 9.1 194719.2 -2011.5  
 5763 9.7 194724.0 -2043.7  
 5764 9.5 194725.7 -2014.6

5765 8.8 194730.9 -2052.2  
 5766 9.5 194738.5 -2054.2  
 5767 9.6 194753.8 -2050.2  
 5768 8.5 194812.6 -2051.4  
 5769 9.7 194815.6 -2050.3  
 5770 8.8 194829.5 -2058.0  
 5771 9.5 194858.8 -2009.4  
 5772 9.7 194902.2 -2041.6  
 5773 9.0 194912.0 -2017.2  
 5774 9.5 194930.0 -2019.7



-20 5775 19h49m

5775 9.5 194958.4 -2025.4  
5776 8.3 195011.5 -2019.2  
5777 8.3 195032.3 -2028.4  
5778 9.8 195035.3 -2021.0  
5779 9.3 195101.7 -2032.9  
5780 9.4 195109.4 -2046.7  
5781 8.6 195117.3 -2035.8  
5782 10. 195159.3 -2036.9  
5783 10. 195159.8 -2038.5  
5784 7.0 195203.5 -2015.0

5785 9.5 195223.6 -2005.8  
5786 9.5 195249.0 -2001.8  
5787 9.2 195304.1 -2008.1  
5788 9.5 195313.1 -2055.3  
5789 9.5 195327.2 -2001.8  
5790 9.5 195329.0 -2009.6  
5791 9.5 195332.5 -2052.5  
5792 9.5 195406.2 -2038.9  
5793 9.5 195434.8 -2010.3  
5794 10. 195438.5 -2025.2

5795 9.8 195503.5 -2029.6  
5796 9.5 195508.5 -2018.4  
5797 9.5 195543.9 -2043.6  
5798 9.1 195547.6 -2049.7  
5799 9.5 195558.0 -2051.2  
5800 9.5 195559.2 -2031.4  
5801 9.5 195603.0 -2039.2  
5802 9.5 195610.6 -2039.8  
5803 8.5 195616.6 -2056.1  
5804 9.5 195645.4 -2012.1

5805 9.5 195646.5 -2014.4  
5806 9.8 195708.2 -2038.1  
5807 9.5 195717.8 -2005.0  
5808 8.8 195721.2 -2056.9  
5809 9.5 195723.8 -2003.5  
5810 9.3 195742.0 -2018.8  
5811 9.5 195743.3 -2031.9  
5812 9.3 195754.0 -2019.5  
5813 10. 195756.3 -2032.4  
5814 8.5 195800.7 -2033.4

5815 9.0 195807.1 -2011.3  
5816 9.0 195820.7 -2058.1  
5817 9.5 195908.3 -2050.8  
5818 9.6 195914.6 -2024.7  
5819 9.0 195916.1 -2017.1  
5820 8.3 195916.4 -2011.7  
5821 10. 195925.1 -2048.8  
5822 9.4 195929.7 -2012.4  
5823 9.5 195957.7 -2019.8  
5824 9.5 200000.2 -2048.4

5825 9.5 200001.4 -2009.8  
5826 9.5 200013.2 -2021.6  
5827 9.4 200025.9 -2010.1  
5828 9.5 200046.4 -2023.3  
5829 9.8 200103.5 -2047.8  
5830 9.1 200116.6 -2046.8  
5831 9.0 200130.1 -2048.8  
5832 9.2 200139.5 -2003.9  
5833 8.8 200155.9 -2056.0  
5834 9.8 200233.6 -2020.5

5835 9.5 200238.0 -2025.4  
5836 7.3 200243.9 -2040.9  
5837 9.1 200248.1 -2004.4  
5838 9.4 200256.0 -2034.1  
5839 8.5 200308.4 -2038.6  
5840 9.3 200313.5 -2034.5  
5841 9.5 200316.9 -2012.0  
5842 9.6 200317.2 -2007.5  
5843 9.4 200321.5 -2058.8  
5844 8.5 200322.4 -2038.9

5845 9.5 200325.0 -2056.8  
5846 9.2 200326.4 -2047.7  
5847 9.1 200332.3 -2017.4  
5848 9.5 200342.6 -2011.7  
5849 9.4 200345.4 -2001.6  
5850 9.5 200346.5 -2046.9  
5851 9.0 200408.8 -2052.3  
5852 9.0 200421.2 -2011.6  
5853 9.7 200432.3 -2053.2  
5854 9.5 200441.8 -2039.3

5855 9.4 200445.4 -2065.1  
5856 8.3 200457.6 -2019.0  
5857 9.7 200510.0 -2050.9  
5858 9.7 200510.4 -2034.1  
5859 9.2 200530.1 -2038.8  
5860 9.7 200531.3 -2039.1  
5861 9.5 200534.9 -2015.0  
5862 8.5 200543.8 -2040.1  
5863 9.2 200612.3 -2005.0  
5864 10. 200624.9 -2009.5

5865 9.4 200639.1 -2025.5  
5866 9.0 200655.6 -2055.6  
5867 9.4 200705.7 -2000.5  
5868 9.4 200731.0 -2052.8  
5869 10. 200748.7 -2059.1  
5870 7.8 200749.0 -2027.4  
5871 9.6 200751.6 -2022.0  
5872 9.5 200756.1 -2047.4  
5873 9.3 200800.8 -2010.8  
5874 8.7 200805.2 -2031.4

5875 9.2 200812.1 -2037.3  
5876 9.5 200820.8 -2045.5  
5877 9.4 200838.8 -2009.5  
5878 10. 200843.5 -2031.0  
5879 10. 200843.9 -2033.7  
5880 7.8 200851.2 -2024.3  
5881 9.3 200858.5 -2051.5  
5882 9.6 200904.2 -2031.9  
5883 9.3 200908.7 -2030.4  
5884 9.2 200921.8 -2013.5

5885 10. 201005.0 -2046.8  
5886 8.7 201011.4 -2008.4  
5887 8.9 201054.8 -2001.3  
5888 9.4 201055.7 -2025.6  
5889 8.1 201109.2 -2021.8  
5890 9.3 201112.0 -2020.1  
5891 9.7 201112.3 -2039.4  
5892 9.6 201117.8 -2017.9  
5893 9.5 201121.2 -2053.0  
5894 9.7 201128.8 -2003.5

5895 8.8 201130.8 -2021.4  
5896 8.8 201141.9 -2042.5  
5897 10. 201159.7 -2044.9  
5898 9.4 201200.4 -2052.9  
5899 8.7 201202.1 -2025.3  
5900 9.3 201203.5 -2059.2  
5901 7.5 201204.9 -2005.9  
5902 9.8 201209.5 -2006.0  
5903 9.5 201232.6 -2057.3  
5904 9.7 201233.3 -2003.3

5905 9.0 201233.7 -2006.0  
5906 10. 201257.8 -2022.5  
5907 9.6 201301.3 -2055.1  
5908 9.5 201313.6 -2037.1  
5909 9.4 201344.7 -2031.7  
5910 9.3 201354.6 -2039.5  
5911 9.1 201357.0 -2041.2  
5912 9.5 201401.3 -2045.4  
5913 8.5 201403.1 -2014.2  
5914 9.6 201410.9 -2052.6

5915 9.8 201412.4 -2019.5  
5916 9.7 201429.1 -2046.9  
5917 8.5 201504.4 -2059.0  
5918 9.4 201512.7 -2020.6  
5919 8.9 201523.7 -2022.2  
5920 9.0 201527.4 -2041.7  
5921 9.5 201528.0 -2059.2  
5922 9.5 201534.9 -2000.2  
5923 9.2 201540.2 -2014.2  
5924 9.1 201541.0 -2029.6

5925 9.0 201623.2 -2010.4  
5926 8.7 201633.3 -2028.0  
5927 9.8 201707.9 -2008.6  
5928 9.2 201716.8 -2053.9  
5929 10. 201727.9 -2054.8  
5930 9.2 201733.2 -2010.9  
5931 9.1 201738.4 -2055.7  
5932 10. 201830.3 -2030.0  
5933 9.6 201837.9 -2051.7  
5934 9.5 201838.6 -2054.0

5935 8.7 201840.8 -2000.7  
5936 9.0 201842.1 -2019.5  
5937 9.4 201843.8 -2012.5  
5938 9.4 201854.1 -2004.1  
5939 9.9 201855.3 -2003.6  
5940 9.5 201858.5 -2054.0  
5941 8.5 201938.5 -2046.6  
5942 8.8 201938.5 -2050.2  
5943 9.5 202004.2 -2000.2  
5944 10. 202015.4 -2030.3

5945 9.0 202015.8 -2009.8  
5946 9.4 202044.8 -2011.9  
5947 9.9 202049.3 -2011.9  
5948 9.4 202055.8 -2046.6  
5949 9.2 202128.9 -2001.6  
5950 9.9 202131.0 -2049.2  
5951 9.5 202137.0 -2050.4  
5952 9.8 202140.4 -2013.4  
5953 9.8 202149.7 -2013.5  
5954 8.8 202154.4 -2013.4

5955 9.0 202157.9 -2045.4  
5956 8.8 202209.9 -2023.8  
5957 9.2 202258.9 -2016.9  
5958 9.8 202301.5 -2031.2  
5959 9.3 202315.1 -2054.4  
5960 10. 202317.2 -2000.8  
5961 9.3 202330.4 -2022.7  
5962 9.5 202405.8 -2002.5  
5963 9.0 202411.9 -2026.9  
5964 9.2 202413.5 -2036.5

5965 9.4 202417.1 -2003.9  
5966 9.0 202424.0 -2033.2  
5967 9.4 202429.2 -2034.3  
5968 9.3 202429.2 -2007.3  
5969 9.2 202455.1 -2032.7  
5970 9.1 202517.6 -2054.6  
5971 9.9 202532.2 -2040.6  
5972 9.6 202605.9 -2000.8  
5973 9.2 202608.6 -2036.8  
5974 9.8 202626.7 -2056.1

5975 9.4 202641.5 -2038.4  
5976 9.4 202648.1 -2054.2  
5977 9.4 202652.2 -2059.4  
5978 10. 202701.0 -2034.2  
5979 10. 202729.2 -2010.4  
5980 9.6 202746.7 -2048.0  
5981 9.8 202820.3 -2026.5  
5982 9.5 202820.6 -2039.7  
5983 9.5 202821.2 -2033.1  
5984 9.0 202821.6 -2019.0

5985 9.1 202855.1 -2031.8  
5986 8.5 202900.9 -2021.0  
5987 9.3 202905.6 -2008.9  
5988 9.9 202924.1 -2050.6  
5989 9.4 202928.7 -2034.2  
5990 9.6 202944.6 -2027.7  
5991 9.0 202956.3 -2003.8  
5992 9.5 203015.2 -2036.9  
5993 9.5 203015.5 -2050.0  
5994 9.9 203045.6 -2004.9

5995 8.7 203112.3 -2010.9  
5996 9.0 203114.0 -2035.4  
5997 9.8 203126.9 -2010.4  
5998 9.5 203127.7 -2039.4  
5999 9.6 203129.9 -2040.9  
6000 10. 203152.4 -2055.8  
6001 9.5 203210.3 -2054.7  
6002 9.4 203218.9 -2040.2  
6003 10. 203305.1 -2042.7  
6004 10. 203336.5 -2053.0

6005 9.5 203338.7 -2020.2  
6006 10. 203354.2 -2043.6  
6007 9.8 203401.8 -2045.4  
6008 9.1 203428.7 -2031.8  
6009 10. 203429.6 -2026.2  
6010 9.4 203430.4 -2044.9  
6011 8.7 203437.8 -2000.2  
6012 8.7 203444.0 -2044.7  
6013 10. 203448.3 -2040.5  
6014 9.2 203457.5 -2000.2

6015 10. 203532.3 -2013.2  
6016 9.7 203537.8 -2028.8  
6017 9.8 203542.6 -2054.8  
6018 9.4 203550.0 -2043.7  
6019 9.3 203600.6 -2053.9  
6020 9.5 203609.4 -2042.6  
6021 9.8 203610.5 -2019.9  
6022 9.5 203649.0 -2053.0  
6023 9.0 203655.0 -2055.1  
6024 9.1 203747.4 -2038.7

6025 9.1 203802.1 -2050.6  
6026 9.2 203815.4 -2011.4  
6027 9.0 203819.5 -2033.3  
6028 9.8 203820.2 -2036.1  
6029 9.8 203832.6 -2008.8  
6030 9.1 203834.4 -2039.1  
6031 9.8 203846.4 -2021.6  
6032 10. 203903.4 -2027.4  
6033 9.9 203904.4 -2013.5  
6034 9.8 203909.4 -2018.4

6035 10. 203910.4 -2024.7  
6036 9.1 203913.9 -2000.7  
6037 8.8 204024.8 -2000.9  
6038 9.5 204032.9 -2022.8  
6039 10. 204041.4 -2010.3  
6040 9.5 204043.4 -2023.0  
6041 10. 204112.0 -2036.2  
6042 9.8 204127.6 -2032.9  
6043 8.8 204141.0 -2015.0  
6044 9.7 204143.4 -2042.6

-20 6134 20h59m

6045 9.4 204159.5 -2008.5  
6046 9.0 204211.0 -2013.3  
6047 9.1 204213.0 -2005.9  
6048 9.0 204248.5 -2007.9  
6049 9.7 204256.2 -2041.4  
6050 9.3 204327.1 -2055.3  
6051 9.0 204327.4 -2048.7  
6052 9.8 204333.8 -2011.0  
6053 8.8 204340.0 -2023.1  
6054 9.5 204356.3 -2013.4

6055 7.0 204358.3 -2010.6  
6056 8.6 204410.3 -2004.4  
6057 9.4 204419.2 -2006.0  
6058 9.2 204420.0 -2015.8  
6059 9.8 204420.8 -2026.4  
6060 10. 204445.6 -2046.2  
6061 9.5 204518.1 -2010.4  
6062 9.0 204518.1 -2018.5  
6063 9.4 204546.7 -2040.0  
6064 8.9 204548.1 -2019.3

6065 9.5 204553.7 -2037.0  
6066 9.4 204609.8 -2041.9  
6067 9.5 204642.1 -2018.8  
6068 9.8 204646.6 -2030.2  
6069 9.4 204707.0 -2049.5  
6070 8.8 204720.6 -2022.1  
6071 9.7 204754.9 -2044.4  
6072 9.6 204758.4 -2044.6  
6073 9.1 204800.8 -2007.8  
6074 9.4 204802.9 -2054.6

6075 9.8 204804.6 -2056.3  
6076 9.2 204831.5 -2035.2  
6077 9.6 204844.7 -2012.0  
6078 9.7 204854.9 -2006.8  
6079 9.0 204917.3 -2035.5  
6080 10. 204920.0 -2011.2  
6081 8.5 204938.2 -2037.4  
6082 9.0 204941.7 -2021.1  
6083 9.7 204952.5 -2003.7  
6084 9.8 204957.4 -2055.6

6085 10. 205018.5 -2022.5  
6086 9.0 205020.8 -2041.7  
6087 9.0 205024.9 -2052.1  
6088 9.5 205035.7 -2012.6  
6089 9.8 205055.5 -2025.6  
6090 7.8 205105.0 -2059.8  
6091 10. 205108.0 -2053.8  
6092 9.6 205113.9 -2005.5  
6093 8.8 205140.8 -2010.0  
6094 8.8 205145.3 -2032.3

6095 9.5 205200.4 -2038.1  
6096 8.3 205237.6 -2028.7  
6097 9.8 205256.9 -2015.9  
6098 10. 205316.1 -2052.6  
6099 10. 205325.0 -2000.8  
6100 9.1 205338.7 -2005.7  
6101 9.3 205358.5 -2009.0  
6102 8.5 205359.5 -2053.7  
6103 9.5 205409.0 -2059.3  
6104 9.0 205416.5 -2059.8

6105 9.0 205441.0 -2012.7  
6106 9.4 205446.9 -2049.0  
6107 9.3 205451.6 -2052.3  
6108 8.3 205504.1 -2017.5  
6109 10. 205512.1 -2009.6  
6110 9.7 205525.3 -2043.1  
6111 9.8 205527.0 -2018.5  
6112 8.3 205534.8 -2010.9  
6113 9.1 205547.6 -2014.1  
6114 9.5 205607.6 -2005.7

6115 5.0 205608.3 -2025.1  
6116 9.5 205619.0 -2037.4  
6117 9.5 205646.0 -2035.9  
6118 8.3 205658.0 -2041.1  
6119 9.5 205700.5 -2024.1  
6120 9.4 205702.6 -2055.5  
6121 9.4 205711.3 -2046.6  
6122 10. 205723.0 -2015.9  
6123 9.3 205725.9 -2032.2  
6124 9.2 205732.8 -2003.4

6125 9.8 205750.6 -2045.3  
6126 10. 205753.2 -2020.0  
6127 6.8 205825.1 -2045.2  
6128 9.0 205835.2 -2016.8  
6129 8.5 205845.1 -2038.4  
6130 9.6 205848.2 -2048.1  
6131 9.1 205900.9 -2003.6  
6132 9.8 205933.6 -2012.5  
6133 8.5 205934.4 -2036.7  
6134 9.5 205942.6 -2030.9



-20 6135 20h59m

6135 9.5 205953.1 -2018.2  
6136 9.3 205954.5 -2000.5  
6137 9.4 205956.6 -2026.0  
6138 9.4 210028.7 -2034.1  
6139 10. 210043.3 -2049.6  
6140 7.0 210059.1 -2046.4  
6141 9.8 210103.3 -2035.8  
6142 9.7 210111.1 -2002.9  
6143 9.5 210121.2 -2059.3  
6144 10. 210123.2 -2060.9  
  
6145 9.2 210243.2 -2024.3  
6146 10. 210251.0 -2046.6  
6147 9.2 210252.6 -2047.6  
6148 9.8 210332.3 -2007.2  
6149 9.6 210337.2 -2029.7  
6150 10. 210346.4 -2046.0  
6151 7.3 210347.3 -2053.3  
6152 10. 210421.2 -2021.0  
6153 9.5 210422.3 -2015.0  
6154 9.5 210438.5 -2045.7  
  
6155 9.5 210443.4 -2009.5  
6156 9.5 210444.4 -2018.9  
6157 9.5 210456.4 -2003.3  
6158 9.6 210500.6 -2046.6  
6159 7.3 210542.6 -2041.2  
6160 9.5 210551.4 -2053.5  
6161 9.5 210606.4 -2009.5  
6162 9.6 210610.3 -2041.4  
6163 10. 210628.0 -2036.3  
6164 10. 210628.4 -2020.2  
  
6165 7.0 210641.9 -2040.2  
6166 9.8 210721.9 -2011.9  
6167 9.9 210755.4 -2047.4  
6168 10. 210757.3 -2053.5  
6169 9.2 210816.0 -2011.4  
6170 7.3 210825.8 -2046.5  
6171 9.8 210841.7 -2028.8  
6172 9.0 210846.8 -2004.1  
6173 8.3 210900.0 -2006.2  
6174 9.8 210905.6 -2036.8  
  
6175 8.3 210906.0 -2023.6  
6176 9.4 211006.5 -2031.3  
6177 9.5 211009.8 -2015.4  
6178 6.8 211012.5 -2056.1  
6179 9.0 211025.5 -2059.1  
6180 9.2 211031.6 -2039.6  
6181 9.2 211041.3 -2020.5  
6182 8.2 211052.8 -2042.8  
6183 10. 211133.1 -2031.1  
6184 9.5 211152.1 -2032.9  
  
6185 9.0 211202.8 -2026.2  
6186 9.6 211239.6 -2011.0  
6187 9.5 211241.6 -2015.5  
6188 9.8 211242.5 -2029.8  
6189 9.8 211259.6 -2035.8  
6190 9.1 211305.1 -2005.9  
6191 9.0 211310.3 -2028.2  
6192 8.5 211310.6 -2008.8  
6193 9.2 211316.4 -2041.8  
6194 9.5 211316.4 -2058.0  
  
6195 9.0 211352.2 -2032.9  
6196 9.4 211426.9 -2047.2  
6197 9.8 211427.9 -2034.2  
6198 9.6 211432.9 -2049.5  
6199 9.5 211434.7 -2027.8  
6200 9.4 211452.2 -2016.5  
6201 10. 211453.5 -2053.7  
6202 9.5 211500.2 -2033.1  
6203 9.8 211503.7 -2020.9  
6204 8.5 211509.2 -2017.7  
  
6205 8.5 211556.8 -2014.2  
6206 8.5 211601.9 -2024.2  
6207 9.5 211628.2 -2051.9  
6208 9.0 211628.3 -2013.1  
6209 9.9 211722.2 -2038.4  
6210 9.3 211903.3 -2036.8  
6211 7.6 211917.7 -2050.2  
6212 8.4 211919.0 -2053.5  
6213 9.8 211930.8 -2008.0  
6214 8.9 211941.2 -2038.8  
  
6215 9.8 211943.9 -2021.1  
6216 8.2 212055.4 -2010.1  
6217 9.1 212101.2 -2002.5  
6218 9.5 212104.2 -2013.4  
6219 8.3 212122.3 -2023.7  
6220 9.4 212227.3 -2009.8  
6221 9.4 212256.2 -2009.3  
6222 9.1 212334.4 -2047.6  
6223 9.5 212334.9 -2030.0  
6224 9.8 212338.5 -2011.6

6225 9.5 212339.3 -2029.3  
6226 10. 212353.9 -2048.2  
6227 9.3 212406.5 -2018.6  
6228 9.5 212434.6 -2041.0  
6229 10. 212440.9 -2004.6  
6230 8.7 212453.5 -2055.4  
6231 9.6 212453.6 -2026.6  
6232 9.2 212456.2 -2042.5  
6233 9.5 212457.3 -2043.0  
6234 9.3 212522.0 -2018.4  
  
6235 10. 212526.6 -2000.3  
6236 9.7 212541.8 -2042.8  
6237 6.2 212642.2 -2043.7  
6238 7.5 212645.1 -2053.5  
6239 8.6 212652.9 -2028.4  
6240 9.5 212652.9 -2038.3  
6241 9.4 212656.0 -2047.5  
6242 9.7 212657.0 -2059.7  
6243 9.2 212705.5 -2051.5  
6244 9.0 212708.4 -2032.3  
  
6245 9.5 212728.0 -2025.7  
6246 9.9 212739.8 -2044.9  
6247 9.4 212803.5 -2032.5  
6248 9.6 212811.6 -2010.8  
6249 9.6 212817.5 -2036.0  
6250 9.5 212840.7 -2005.5  
6251 4.7 212857.4 -2006.6  
6252 9.9 212858.6 -2023.3  
6253 9.4 212900.9 -2005.7  
6254 9.4 212914.2 -2010.9  
  
6255 9.8 212922.1 -2034.2  
6256 8.9 212934.7 -2016.0  
6257 7.5 213042.0 -2016.3  
6258 10. 213117.7 -2029.4  
6259 9.4 213145.2 -2023.7  
6260 9.1 213149.8 -2052.9  
6261 10. 213155.8 -2000.5  
6262 9.5 213251.1 -2024.0  
6263 9.4 213304.8 -2059.6  
6264 9.3 213304.8 -2019.9  
  
6265 9.8 213329.7 -2003.7  
6266 7.5 213338.2 -2027.5  
6267 9.7 213346.7 -2001.0  
6268 9.4 213444.7 -2002.0  
6269 9.4 213453.8 -2023.2  
6270 6.5 213506.6 -2016.7  
6271 9.5 213507.5 -2023.5  
6272 9.5 213508.0 -2028.1  
6273 10. 213509.9 -2002.0  
6274 9.9 213529.6 -2007.7  
  
6275 9.8 213531.2 -2037.3  
6276 9.5 213546.0 -2000.2  
6277 8.6 213555.4 -2010.1  
6278 9.0 213556.1 -2056.0  
6279 9.0 213626.5 -2011.4  
6280 9.5 213635.4 -2000.2  
6281 9.4 213635.7 -2015.2  
6282 9.5 213656.8 -2026.8  
6283 9.0 213657.5 -2046.5  
6284 10. 213700.0 -2007.0  
  
6285 10. 213727.7 -2019.7  
6286 9.5 213750.4 -2026.0  
6287 9.8 213759.3 -2023.7  
6288 10. 213828.9 -2001.3  
6289 9.8 213833.7 -2019.5  
6290 9.5 213848.0 -2028.0  
6291 9.7 213900.7 -2047.3  
6292 9.2 213923.1 -2016.5  
6293 7.5 213936.0 -2014.5  
6294 9.8 213958.6 -2054.6  
  
6295 8.9 214036.3 -2005.1  
6296 9.1 214048.1 -2020.2  
6297 9.0 214056.6 -2049.2  
6298 9.6 214121.1 -2007.6  
6299 9.8 214139.7 -2039.6  
6300 9.8 214154.0 -2028.0  
6301 9.1 214227.6 -2023.3  
6302 8.0 214250.7 -2051.7  
6303 8.7 214311.5 -2031.8  
6304 9.2 214334.4 -2048.3  
  
6305 10. 214357.2 -2000.5  
6306 9.6 214423.4 -2004.6  
6307 9.1 214430.6 -2029.7  
6308 8.2 214436.3 -2011.8  
6309 9.6 214444.1 -2031.0  
6310 9.0 214446.4 -2041.9  
6311 9.5 214515.2 -2022.1  
6312 9.5 214539.0 -2015.8  
6313 8.1 214542.1 -2041.4  
6314 9.8 214546.3 -2013.5

6315 9.3 214609.8 -2041.8  
6316 9.6 214623.5 -2050.2  
6317 10. 214627.4 -2054.2  
6318 9.6 214631.5 -2059.8  
6319 8.5 214715.8 -2019.3  
6320 9.5 214722.7 -2035.5  
6321 8.8 214732.2 -2005.6  
6322 9.4 214741.2 -2046.2  
6323 9.4 214818.4 -2009.7  
6324 9.0 214824.3 -2008.0  
  
6325 9.1 214825.2 -2020.2  
6326 9.0 214829.8 -2042.8  
6327 9.8 214909.9 -2018.1  
6328 9.7 214951.1 -2056.6  
6329 10. 215004.1 -2014.0  
6330 9.1 215023.0 -2004.5  
6331 9.3 215039.3 -2030.9  
6332 8.5 215048.1 -2017.9  
6333 9.5 215102.6 -2058.6  
6334 8.8 215105.3 -2000.7  
  
6335 9.3 215109.4 -2039.3  
6336 8.7 215115.1 -2041.9  
6337 9.1 215116.5 -2026.2  
6338 9.7 215124.6 -2013.3  
6339 9.4 215130.5 -2009.7  
6340 9.6 215303.0 -2039.1  
6341 8.7 215313.4 -2000.4  
6342 9.8 215409.2 -2044.9  
6343 9.5 215424.6 -2012.2  
6344 9.4 215432.0 -2020.8  
  
6345 9.5 215438.2 -2004.9  
6346 8.8 215456.7 -2009.6  
6347 8.9 215509.5 -2048.6  
6348 9.4 215512.6 -2033.5  
6349 9.7 215522.5 -2002.4  
6350 9.5 215533.3 -2040.0  
6351 9.5 215657.1 -2035.9  
6352 9.3 215706.8 -2004.0  
6353 9.8 215712.2 -2040.4  
6354 9.7 215736.3 -2049.6  
  
6355 10. 215742.9 -2043.0  
6356 8.2 215750.1 -2028.5  
6357 9.3 215811.2 -2011.5  
6358 9.4 215849.3 -2019.1  
6359 9.4 215855.7 -2005.4  
6360 9.3 215903.5 -2034.2  
6361 9.3 215920.4 -2050.7  
6362 7.3 215925.9 -2016.1  
6363 9.6 215930.3 -2014.8  
6364 9.0 215944.8 -2024.0  
  
6365 10. 220004.4 -2011.0  
6366 9.8 220025.8 -2035.5  
6367 8.9 220141.1 -2035.5  
6368 9.7 220157.5 -2042.2  
6369 8.8 220157.7 -2036.9  
6370 8.8 220216.2 -2043.6  
6371 9.0 220247.6 -2052.5  
6372 9.3 220253.3 -2014.5  
6373 9.4 220305.4 -2043.7  
6374 10. 220333.3 -2014.5  
  
6375 9.8 220409.7 -2034.5  
6376 9.8 220410.6 -2051.2  
6377 9.1 220434.7 -2049.8  
6378 10. 220435.5 -2045.4  
6379 9.2 220444.2 -2049.5  
6380 9.4 220450.6 -2023.9  
6381 9.5 220502.3 -2030.8  
6382 9.4 220506.9 -2020.4  
6383 9.8 220518.8 -2033.1  
6384 9.3 220522.7 -2052.1  
  
6385 9.3 220527.9 -2017.7  
6386 9.8 220529.4 -2005.4  
6387 9.9 220533.8 -2031.3  
6388 9.8 220625.3 -2047.2  
6389 9.9 220638.0 -2020.2  
6390 9.6 220644.5 -2015.2  
6391 9.7 220659.0 -2014.3  
6392 8.7 220705.9 -2036.4  
6393 9.0 220713.6 -2023.4  
6394 8.9 220736.0 -2021.5  
  
6395 9.8 220749.4 -2030.4  
6396 9.0 220812.6 -2041.6  
6397 9.1 220819.6 -2044.5  
6398 9.5 220823.6 -2014.8  
6399 8.2 220824.0 -2022.8  
6400 9.8 220838.1 -2049.5  
6401 7.7 220854.7 -2044.4  
6402 9.3 220925.6 -2007.5  
6403 9.5 220942.9 -2053.7  
6404 9.4 221032.3 -2020.2

6405 8.6 221035.5 -2058.9  
6406 8.4 221050.5 -2056.9  
6407 10. 221122.2 -2017.1  
6408 9.2 221148.2 -2012.6  
6409 6.7 221254.2 -2039.6  
6410 9.8 221342.9 -2047.4  
6411 7.3 221404.3 -2009.7  
6412 10. 221422.2 -2028.0  
6413 8.3 221424.1 -2054.3  
6414 8.7 221443.8 -2004.6  
  
6415 9.8 221535.5 -2049.8  
6416 8.9 221536.5 -2025.7  
6417 9.5 221536.5 -2052.1  
6418 9.5 221615.9 -2000.6  
6419 9.6 221622.9 -2016.2  
6420 9.1 221649.6 -2019.1  
6421 9.8 221725.4 -2019.8  
6422 9.1 221725.7 -2045.9  
6423 7.3 221751.0 -2058.3  
6424 9.3 221801.8 -2058.2  
  
6425 9.1 221819.6 -2000.5  
6426 9.7 221904.0 -2000.9  
6427 8.9 221908.5 -2004.6  
6428 9.0 221915.7 -2000.1  
6429 10. 221917.9 -2053.9  
6430 8.7 221918.4 -2010.4  
6431 8.4 221924.9 -2036.0  
6432 9.5 221943.0 -2025.5  
6433 9.8 221952.3 -2052.3  
6434 9.8 222006.0 -2042.3  
  
6435 9.6 222019.4 -2055.4  
6436 9.1 222030.9 -2051.2  
6437 9.5 222058.5 -2037.3  
6438 9.8 222138.7 -2019.6  
6439 9.0 222149.1 -2028.4  
6440 8.9 222156.6 -2038.7  
6441 9.8 222242.5 -2058.2  
6442 9.2 222318.8 -2013.6  
6443 9.1 222337.0 -2048.8  
6444 9.6 222430.6 -2040.2  
  
6445 10. 222454.3 -2021.7  
6446 8.3 222515.8 -2007.9  
6447 9.1 222518.8 -2046.9  
6448 9.2 222527.6 -2000.4  
6449 9.8 222540.1 -2036.8  
6450 8.7 222616.2 -2006.4  
6451 9.4 222617.9 -2016.7  
6452 9.2 222630.3 -2016.9  
6453 10. 222640.4 -2021.6  
6454 8.5 222649.2 -2036.3  
  
6455 9.7 222746.5 -2051.6  
6456 9.8 222757.7 -2059.9  
6457 9.8 222840.3 -2025.4  
6458 9.8 222905.4 -2009.4  
6459 9.8 222968.3 -2044.8  
6460 9.8 223027.4 -2055.6  
6461 9.6 223146.1 -2008.4  
6462 9.1 223153.9 -2025.8  
6463 9.0 223154.5 -2027.1  
6464 9.4 223211.0 -2023.2  
  
6465 8.5 223215.8 -2045.7  
6466 9.4 223227.5 -2027.6  
6467 9.9 223252.5 -2032.3  
6468 9.5 223254.5 -2034.3  
6469 10. 223305.5 -2044.0  
6470 9.1 223324.6 -2057.2  
6471 9.4 223509.7 -2046.7  
6472 10. 223514.0 -2044.1  
6473 8.5 223534.4 -2006.5  
6474 9.5 223611.8 -2038.1  
  
6475 8.0 223623.6 -2006.5  
6476 9.8 223623.8 -2016.2  
6477 8.8 223646.7 -2003.1  
6478 9.5 223707.1 -2051.8  
6479 9.5 223753.3 -2016.3  
6480 9.8 223805.3 -2015.6  
6481 9.6 223828.3 -2032.1  
6482 10. 223853.0 -2047.4  
6483 8.8 223903.1 -2040.1  
6484 9.8 223906.3 -2034.0  
  
6485 9.3 223913.8 -2004.8  
6486 5.4 223945.4 -2022.0  
6487 8.5 224031.4 -2027.7  
6488 9.7 224047.3 -2015.9  
6489 9.7 224121.7 -2044.4  
6490 9.6 224137.2 -2026.7  
6491 9.7 224195.5 -2003.1  
6492 9.6 224309.1 -2047.4  
6493 9.7 224328.8 -2015.5  
6494 9.9 224334.6 -2040.2

-20 6494 22h43m



-20 6495 22h44m

6495 8.3 224400.0 -2014.1  
6496 9.7 224436.2 -2028.0  
6497 8.7 224449.0 -2050.0  
6498 9.6 224503.6 -2031.5  
6499 9.5 224521.3 -2049.0  
6500 9.0 224535.9 -2050.2  
6501 9.8 224543.8 -2051.2  
6502 9.1 224549.6 -2018.7  
6503 9.4 224655.8 -2043.9  
6504 8.6 224710.5 -2004.8

6505 10. 224726.5 -2017.7  
6506 10. 224727.4 -206.4  
6507 6.3 224742.9 -2054.7  
6508 9.2 224815.1 -206.4  
6509 9.7 224828.6 -2051.2  
6510 9.7 224844.7 -2052.2  
6511 8.0 224923.8 -2019.3  
6512 9.9 225000.9 -2029.2  
6513 8.5 225010.7 -2035.5  
6514 9.9 225035.0 -2028.2

6515 9.7 225127.5 -2048.4  
6516 9.8 225134.2 -2049.4  
6517 10. 225155.4 -2018.3  
6518 10. 225223.8 -2026.3  
6519 9.0 225244.8 -2024.1  
6520 9.9 225248.6 -2006.0  
6521 9.1 225250.2 -2040.6  
6522 9.3 225307.9 -2047.5  
6523 7.7 225310.4 -2007.3  
6524 10. 225339.3 -2037.7

6525 9.1 225407.2 -2059.1  
6526 8.6 225424.0 -2012.8  
6527 9.2 225447.4 -2029.9  
6528 10. 225448.3 -2010.6  
6529 9.6 225457.5 -2045.6  
6530 8.8 225503.6 -2009.3  
6531 9.9 225528.1 -2006.5  
6532 9.2 225537.6 -2005.4  
6533 8.5 225540.4 -2053.4  
6534 9.1 225541.1 -2015.3

6535 9.2 225542.2 -2034.2  
6536 9.5 225602.5 -2053.8  
6537 9.8 225654.6 -2025.0  
6538 9.5 225705.0 -2024.5  
6539 9.3 225817.4 -2040.2  
6540 9.8 225845.5 -2007.5  
6541 7.8 225855.2 -2014.2  
6542 9.8 225900.2 -2043.7  
6543 8.3 225912.6 -2039.3  
6544 9.7 225956.4 -2041.3

6545 9.5 230027.2 -2050.3  
6546 9.4 230039.1 -2051.8  
6547 9.4 230157.1 -2051.3  
6548 9.5 230157.3 -2032.6  
6549 9.2 230257.9 -2015.0  
6550 9.5 230256.7 -2053.8  
6551 9.3 230354.6 -2050.0  
6552 9.3 230455.5 -2020.4  
6553 9.9 230456.4 -2026.2  
6554 9.2 230518.0 -2003.5

6555 9.7 230613.7 -2000.1  
6556 9.4 230625.4 -2002.7  
6557 7.0 230626.5 -2028.6  
6558 9.7 230633.0 -2026.0  
6559 9.8 230645.4 -2056.2  
6560 8.2 230653.3 -2048.2  
6561 9.4 230705.0 -2049.3  
6562 9.4 230719.6 -2007.9  
6563 8.8 230730.5 -2056.8  
6564 9.5 230758.0 -2056.9

6565 9.8 230818.9 -2012.2  
6566 9.1 230820.1 -2031.4  
6567 10. 230840.0 -2032.0  
6568 8.6 230857.4 -2044.6  
6569 9.4 230945.3 -2010.8  
6570 9.4 231018.1 -2058.0  
6571 9.8 231035.7 -2033.8  
6572 9.3 231045.6 -2037.0  
6573 10. 231114.4 -2006.1  
6574 9.5 231115.4 -2002.6

6575 9.8 231218.5 -2007.1  
6576 9.2 231237.3 -2021.5  
6577 9.8 231242.8 -2043.2  
6578 8.4 231246.5 -2049.2  
6579 10. 231301.6 -2044.1  
6580 9.0 231309.0 -2002.0  
6581 9.5 231343.9 -2035.4  
6582 9.2 231441.8 -2042.8  
6583 9.7 231445.9 -2057.2  
6584 9.5 231453.8 -2052.7

6585 8.3 231506.0 -2028.8  
6586 9.8 231513.1 -2039.1  
6587 4.5 231520.9 -2053.5  
6588 9.9 231556.5 -2077.0  
6589 9.0 231657.6 -2067.1  
6590 9.7 231658.1 -2041.3  
6591 9.8 231712.3 -2018.3  
6592 8.3 231831.7 -2009.9  
6593 9.2 231858.4 -2035.2  
6594 10. 231908.0 -2023.7

6595 9.8 231911.3 -2007.2  
6596 9.6 232002.4 -2041.1  
6597 9.3 232006.2 -2041.4  
6598 9.3 232017.3 -2010.6  
6599 8.7 232018.0 -2030.5  
6600 9.6 232038.6 -2058.0  
6601 9.0 232050.1 -2057.4  
6602 9.5 232057.2 -2018.2  
6603 9.0 232112.7 -2010.4  
6604 9.3 232114.2 -2057.8

6605 9.3 232137.2 -2020.6  
6606 8.7 232229.1 -2058.0  
6607 10. 232302.5 -2045.3  
6608 8.6 232325.9 -2017.4  
6609 9.9 232421.7 -2017.1  
6610 9.5 232437.7 -2043.4  
6611 9.7 232507.2 -2037.6  
6612 8.8 232523.5 -2030.3  
6613 8.0 232530.2 -2053.2  
6614 9.3 232539.3 -2035.7

6615 9.8 232543.2 -2048.6  
6616 8.8 232602.8 -2055.1  
6617 8.8 232702.3 -2058.2  
6618 9.5 232812.6 -2014.5  
6619 9.2 232819.2 -2051.0  
6620 10. 232830.5 -2041.8  
6621 9.8 232956.3 -2007.4  
6622 9.0 233015.5 -2025.5  
6623 10. 233020.0 -2021.5  
6624 9.8 233031.5 -2002.2

6625 9.9 233033.7 -2019.5  
6626 9.4 233035.9 -2021.5  
6627 9.6 233053.8 -2007.0  
6628 9.8 233127.6 -2020.4  
6629 9.4 233227.7 -2015.3  
6630 9.2 233238.5 -2031.5  
6631 9.7 233305.0 -2052.0  
6632 10. 233312.8 -2022.2  
6633 9.0 233350.6 -2053.1  
6634 10. 233358.1 -2054.9

6635 8.0 233412.5 -2058.4  
6636 7.8 233413.4 -2033.5  
6637 8.5 233424.5 -2012.3  
6638 9.8 233430.6 -2004.7  
6639 9.5 233454.5 -2007.4  
6640 9.2 233512.7 -2040.8  
6641 9.5 233609.8 -2040.7  
6642 9.6 233624.8 -2036.9  
6643 8.8 233713.0 -2043.5  
6644 9.7 233750.4 -2053.6

6645 9.8 233752.4 -2021.3  
6646 9.5 233817.1 -2040.9  
6647 9.8 233837.5 -2042.8  
6648 9.5 233845.4 -2058.4  
6649 9.7 233908.7 -2012.9  
6650 9.7 233910.7 -2011.0  
6651 9.8 233916.5 -2037.7  
6652 9.4 233921.1 -2020.2  
6653 9.5 233924.5 -2048.9  
6654 8.8 233925.2 -2034.3

6655 8.7 233935.9 -2009.8  
6656 9.1 234003.6 -2055.4  
6657 9.3 234027.1 -2018.9  
6658 8.9 234130.0 -2033.0  
6659 9.8 234220.7 -2020.0  
6660 9.7 234223.2 -2030.6  
6661 9.8 234326.3 -2026.0  
6662 9.7 234427.2 -2030.2  
6663 9.8 234457.9 -2003.1  
6664 9.4 234646.3 -2008.7

6665 9.5 234702.2 -2003.7  
6666 9.5 234702.7 -2005.1  
6667 9.4 234728.8 -2005.9  
6668 8.0 234729.5 -2051.0  
6669 10. 234834.6 -2022.3  
6670 9.9 234839.6 -2035.2  
6671 9.7 234839.9 -2008.7  
6672 9.0 234905.7 -2036.1  
6673 8.7 234906.1 -2059.2  
6674 9.0 234914.2 -2031.2

6675 10. 234933.7 -2035.9  
6676 10. 234938.6 -2058.2  
6677 9.7 234946.3 -2011.6  
6678 9.6 234950.5 -2006.9  
6679 9.4 235005.2 -2038.5  
6680 10. 235108.6 -2012.0  
6681 9.0 235115.0 -2049.7  
6682 8.0 235123.9 -2027.2  
6683 9.7 235137.3 -2040.1  
6684 7.3 235156.7 -2050.0

6685 8.8 235206.4 -2020.0  
6686 9.4 235213.5 -2001.4  
6687 9.0 235229.2 -2050.4  
6688 8.8 235232.4 -2018.3  
6689 8.5 235244.0 -2012.7  
6690 10. 235338.7 -2009.6  
6691 10. 235343.5 -2012.7  
6692 10. 235353.4 -2027.0  
6693 9.2 235405.1 -2046.7  
6694 9.8 235419.2 -2040.1

6695 9.5 235420.5 -2000.1  
6696 9.9 235428.0 -2023.6  
6697 10. 235438.5 -2026.5  
6698 9.4 235506.5 -2048.1  
6699 9.7 235508.8 -2013.1  
6700 9.2 235513.6 -2015.1  
6701 9.3 235516.1 -2012.2  
6702 9.4 235520.1 -2013.9  
6703 5.8 235529.9 -2051.1  
6704 9.4 235607.1 -2022.7

6705 10. 235628.1 -2026.8  
6706 10. 235631.5 -2050.4  
6707 9.5 235652.8 -2033.8  
6708 9.2 235655.6 -2027.3  
6709 8.8 235710.6 -2014.8  
6710 8.8 235727.7 -2013.0  
6711 10. 235733.2 -2040.1  
6712 9.6 235742.3 -2038.6  
6713 10. 235743.2 -2029.1  
6714 9.5 235746.0 -2035.0

6715 9.5 235752.8 -2051.8  
6716 9.4 235758.3 -2038.5  
6717 9.8 235810.4 -2048.7  
6718 9.0 235822.0 -2028.3  
6719 9.1 235844.4 -2006.9  
6720 9.5 235900.5 -2052.4  
6721 9.6 235915.1 -2042.2  
6722 10. 235915.9 -2039.6  
6723 9.1 235926.4 -2043.0  
6724 9.5 235942.8 -2021.8

1 9.8 00018.2 -2146.4  
2 9.9 00048.4 -2123.1  
3 9.7 00054.1 -2146.6  
4 9.0 00058.8 -2150.0  
5 9.5 00205.3 -2118.6  
6 10. 00227.8 -2114.0  
7 10. 00300.3 -2107.9  
8 9.4 00301.9 -2111.5  
9 9.8 00311.4 -2112.1  
10 9.7 00315.8 -2144.5

11 9.5 00407.9 -2109.0  
12 9.5 00418.0 -2122.9  
13 9.8 00432.8 -2120.0  
14 9.9 00542.4 -2149.7  
15 6.8 00555.0 -2125.5  
16 9.5 00565.2 -2158.3  
17 7.0 00569.5 -2159.3  
18 9.5 00732.6 -2143.5  
19 9.5 00827.2 -2153.5  
20 10. 00829.1 -2155.7

21 8.8 00834.2 -2113.3  
22 9.3 00838.4 -2116.2  
23 8.8 00908.3 -2124.9  
24 6.0 00920.7 -2100.6  
25 9.9 00950.6 -2115.5  
26 9.1 00952.3 -2117.3  
27 9.8 01013.7 -2146.7  
28 9.2 01036.2 -2106.9  
29 10. 01049.3 -2138.1  
30 10. 01050.8 -2119.9

31 6.7 01055.6 -2156.2  
32 9.4 01100.0 -2134.4  
33 10. 01119.3 -2108.7  
34 9.7 01141.4 -2116.1  
35 9.4 01150.9 -2120.8  
36 9.1 01203.8 -2147.6  
37 9.1 01210.3 -2144.5  
38 9.8 01237.3 -2130.4  
39 9.5 01254.4 -2100.7  
40 9.7 01412.1 -2135.3

-21 130 0h45m

41 9.1 01537.5 -2127.8  
42 9.8 01604.6 -2107.0  
43 9.1 01607.6 -2129.9  
44 9.5 01620.5 -2138.4  
45 9.7 01634.2 -2159.1  
46 9.4 01638.1 -2132.3  
47 10. 01813.6 -2124.7  
48 9.5 01819.1 -2113.5  
49 9.1 01906.4 -2142.2  
50 9.5 01912.2 -2136.4

51 8.2 01934.7 -2127.8  
52 8.6 01946.3 -2119.1  
53 9.8 02027.8 -2133.8  
54 9.3 02045.4 -2141.9  
55 9.3 02046.7 -2143.0  
56 9.6 02102.8 -2126.9  
57 6.3 02103.9 -2107.9  
58 9.3 02213.0 -2152.1  
59 9.2 02223.4 -2123.1  
60 9.7 02325.3 -2130.2

61 10. 02349.4 -2133.5  
62 9.1 02359.7 -2145.2  
63 9.2 02401.1 -2110.6  
64 9.7 02437.6 -2101.6  
65 9.7 02503.2 -2145.4  
66 9.7 02538.7 -2120.4  
67 9.1 02606.6 -2139.6  
68 9.9 02746.2 -2159.8  
69 9.0 02752.8 -2108.0  
70 7.5 02851.2 -2133.0

71 9.2 02855.7 -2140.7  
72 9.8 02914.3 -2100.1  
73 9.3 02915.8 -2153.7  
74 9.1 02941.9 -2119.8  
75 9.3 02952.8 -2103.7  
76 10. 03014.4 -2116.0  
77 9.1 03014.8 -2154.8  
78 9.7 03027.5 -2154.3  
79 9.8 03039.7 -2133.1  
80 8.6 03100.7 -2159.5

81 8.7 03101.0 -2120.3  
82 9.7 03103.3 -2119.0  
83 9.7 03107.8 -2129.3  
84 6.2 03117.4 -2105.6  
85 8.6 03130.4 -2150.1  
86 9.5 03137.9 -2110.1  
87 9.8 03213.5 -2145.9  
88 9.8 03302.2 -2145.0  
89 10. 03308.6 -2129.7  
90 9.0 03311.6 -2147.3

91 7.5 03416.3 -2105.5  
92 9.7 03427.3 -2125.7  
93 9.8 03512.5 -2112.4  
94 9.5 03513.5 -2151.3  
95 9.0 03525.9 -2108.8  
96 8.8 03533.4 -2108.6  
97 8.7 03540.9 -2125.4  
98 8.7 03635.5 -2152.0  
99 9.0 03641.6 -2111.7  
100 8.8 03643.5 -2102.8

101 9.2 03644.7 -2152.3  
102 9.5 03702.2 -2120.2  
103 9.4 03704.6 -2120.2  
104 8.5 03739.1 -2107.5  
105 9.8 03800.7 -2132.6  
106 8.7 03824.9 -2142.1  
107 8.5 03900.1 -2127.3  
108 9.5 03905.6 -2146.9  
109 9.8 03937.4 -2158.7  
110 9.8 03944.7 -2106.8

111 8.9 03958.9 -2139.6  
112 9.4 04013.3 -2124.0  
113 10. 04046.4 -2105.2  
114 9.4 04047.7 -2151.8  
115 9.3 04135.9 -2121.1  
116 10. 04143.9 -2126.7  
117 9.8 04147.4 -2129.1  
118 10. 04148.3 -2152.1  
119 7.0 04155.8 -2156.1  
120 9.8 04157.6 -2152.5

121 9.0 04158.5 -2142.3  
122 9.5 04232.3 -2137.4  
123 8.5 04232.3 -2155.1  
124 10. 04254.0 -2123.8  
125 9.3 04316.6 -2138.2  
126 9.5 04320.2 -2157.4  
127 8.6 04344.7 -2139.7  
128 9.4 04445.9 -2103.5  
129 7.3 04504.3 -2153.8  
130 8.0 04520.6 -2146.7



|     |     |         |         |     |     |         |         |     |     |         |         |     |     |         |         |
|-----|-----|---------|---------|-----|-----|---------|---------|-----|-----|---------|---------|-----|-----|---------|---------|
| 131 | 9.6 | 04605.9 | -2105.0 | 221 | 9.4 | 11539.2 | -2123.5 | 311 | 9.4 | 14201.8 | -2136.7 | 401 | 9.3 | 20800.6 | -2127.0 |
| 132 | 9.6 | 04626.9 | -2135.1 | 222 | 9.3 | 11546.6 | -2156.3 | 312 | 9.3 | 14207.5 | -2122.0 | 402 | 10. | 20817.0 | -2146.2 |
| 133 | 10. | 04715.8 | -2142.5 | 223 | 7.8 | 11552.4 | -2129.6 | 313 | 9.2 | 14212.1 | -2122.4 | 403 | 7.9 | 20901.6 | -2159.6 |
| 134 | 9.5 | 04839.3 | -2118.7 | 224 | 9.6 | 11605.6 | -2105.3 | 314 | 9.8 | 14224.2 | -2109.5 | 404 | 8.4 | 20924.0 | -2140.9 |
| 135 | 9.1 | 04844.9 | -2138.5 | 225 | 8.0 | 11606.4 | -2153.1 | 315 | 9.8 | 14235.3 | -2117.9 | 405 | 9.2 | 20933.2 | -2154.5 |
| 136 | 7.8 | 04855.3 | -2129.6 | 226 | 9.6 | 11609.2 | -2141.8 | 316 | 9.4 | 14238.2 | -2148.1 | 406 | 8.0 | 20949.5 | -2147.8 |
| 137 | 9.6 | 04856.2 | -2109.2 | 227 | 8.9 | 11623.5 | -2105.2 | 317 | 8.7 | 14253.7 | -2107.7 | 407 | 9.6 | 21011.3 | -2135.4 |
| 138 | 9.4 | 04905.1 | -2103.8 | 228 | 9.1 | 11709.7 | -2127.5 | 318 | 9.5 | 14291.4 | -2145.0 | 408 | 9.3 | 21013.8 | -2137.6 |
| 139 | 9.8 | 04930.4 | -2114.8 | 229 | 8.8 | 11740.5 | -2151.1 | 319 | 9.8 | 14316.1 | -2107.1 | 409 | 9.7 | 21039.7 | -2126.3 |
| 140 | 9.3 | 05024.4 | -2129.1 | 230 | 10. | 11757.2 | -2122.5 | 320 | 9.0 | 14316.3 | -2128.9 | 410 | 9.9 | 21102.9 | -2102.8 |
| 141 | 7.2 | 05050.2 | -2127.1 | 231 | 9.7 | 11839.1 | -2148.8 | 321 | 9.8 | 14328.7 | -2124.7 | 411 | 9.3 | 21132.4 | -2141.5 |
| 142 | 8.2 | 05101.7 | -2157.9 | 232 | 9.4 | 11858.6 | -2102.5 | 322 | 9.6 | 14330.4 | -2139.6 | 412 | 10. | 21133.5 | -2138.7 |
| 143 | 8.8 | 05110.2 | -2106.4 | 233 | 9.4 | 11925.0 | -2133.9 | 323 | 9.5 | 14337.8 | -2135.8 | 413 | 9.8 | 21147.2 | -2122.6 |
| 144 | 9.7 | 05203.0 | -2145.2 | 234 | 9.1 | 12002.9 | -2128.3 | 324 | 9.7 | 14421.7 | -2126.9 | 414 | 10. | 21228.7 | -2155.0 |
| 145 | 9.5 | 05221.7 | -2151.2 | 235 | 6.8 | 12005.7 | -2114.4 | 325 | 10. | 14439.9 | -2131.2 | 415 | 9.1 | 21246.3 | -2117.0 |
| 146 | 10. | 05229.0 | -2155.2 | 236 | 9.8 | 12023.3 | -2150.9 | 326 | 9.0 | 14446.7 | -2154.8 | 416 | 8.5 | 21254.5 | -2159.8 |
| 147 | 9.0 | 05245.9 | -2114.3 | 237 | 7.0 | 12025.7 | -2105.9 | 327 | 8.3 | 14532.7 | -2119.9 | 417 | 8.0 | 21324.2 | -2129.4 |
| 148 | 9.0 | 05257.4 | -2150.7 | 238 | 7.5 | 12104.3 | -2110.8 | 328 | 9.2 | 14535.6 | -2129.4 | 418 | 9.4 | 21338.7 | -2121.8 |
| 149 | 8.5 | 05309.9 | -2103.8 | 239 | 10. | 12149.0 | -2152.8 | 329 | 9.5 | 14540.5 | -2139.4 | 419 | 9.8 | 21432.4 | -2138.7 |
| 150 | 9.4 | 05319.9 | -2100.8 | 240 | 9.8 | 12341.1 | -2129.4 | 330 | 9.9 | 14554.9 | -2157.0 | 420 | 9.5 | 21436.6 | -2107.7 |
| 151 | 10. | 05333.1 | -2134.5 | 241 | 8.7 | 12411.8 | -2151.8 | 331 | 8.6 | 14612.0 | -2140.9 | 421 | 9.0 | 21507.6 | -2100.5 |
| 152 | 10. | 05421.3 | -2107.8 | 242 | 8.8 | 12411.9 | -2146.3 | 332 | 10. | 14620.0 | -2148.5 | 422 | 10. | 21536.9 | -2154.1 |
| 153 | 9.2 | 05453.8 | -2154.5 | 243 | 9.4 | 12438.3 | -2136.1 | 333 | 8.8 | 14640.8 | -2157.8 | 423 | 9.0 | 21547.8 | -2146.5 |
| 154 | 9.8 | 05501.3 | -2113.1 | 244 | 9.3 | 12504.9 | -2157.3 | 334 | 9.5 | 14641.4 | -2150.2 | 424 | 9.4 | 21548.7 | -2155.5 |
| 155 | 9.2 | 05503.7 | -2103.9 | 245 | 8.9 | 12518.8 | -2127.0 | 335 | 9.5 | 14700.3 | -2121.1 | 425 | 10. | 21609.7 | -2141.2 |
| 156 | 9.1 | 05512.3 | -2111.8 | 246 | 9.5 | 12519.8 | -2141.9 | 336 | 9.3 | 14719.5 | -2158.8 | 426 | 9.2 | 21611.2 | -2109.4 |
| 157 | 10. | 05530.8 | -2131.0 | 247 | 9.7 | 12531.2 | -2128.8 | 337 | 9.2 | 14749.2 | -2158.6 | 427 | 9.5 | 21625.5 | -2149.3 |
| 158 | 9.0 | 05534.4 | -2118.9 | 248 | 9.7 | 12533.8 | -2129.3 | 338 | 8.3 | 14838.4 | -2131.0 | 428 | 9.6 | 21704.9 | -2153.9 |
| 159 | 9.8 | 05555.6 | -2126.8 | 249 | 8.2 | 12554.9 | -2149.7 | 339 | 7.3 | 14858.3 | -2116.5 | 429 | 10. | 21723.8 | -2121.0 |
| 160 | 9.8 | 05604.9 | -2101.7 | 250 | 9.5 | 12601.5 | -2109.2 | 340 | 10. | 14902.2 | -2102.0 | 430 | 9.5 | 21820.0 | -2117.7 |
| 161 | 9.8 | 05700.0 | -2133.5 | 251 | 9.2 | 12636.6 | -2116.9 | 341 | 10. | 14915.2 | -2136.3 | 431 | 8.6 | 21830.4 | -2117.3 |
| 162 | 9.0 | 05723.5 | -2140.3 | 252 | 7.8 | 12654.5 | -2146.5 | 342 | 9.8 | 14921.2 | -2140.4 | 432 | 10. | 21841.2 | -2106.4 |
| 163 | 9.0 | 05736.8 | -2146.1 | 253 | 10. | 12657.7 | -2124.7 | 343 | 9.9 | 14936.9 | -2122.5 | 433 | 8.5 | 21903.4 | -2158.5 |
| 164 | 10. | 05744.3 | -2102.5 | 254 | 9.5 | 12711.3 | -2129.0 | 344 | 9.2 | 15000.0 | -2154.3 | 434 | 10. | 21922.3 | -2149.7 |
| 165 | 7.6 | 05744.3 | -2130.7 | 255 | 9.8 | 12727.4 | -2152.9 | 345 | 9.6 | 15003.7 | -2106.4 | 435 | 8.9 | 21944.8 | -2137.2 |
| 166 | 9.6 | 05756.2 | -2150.6 | 256 | 9.0 | 12752.1 | -2105.2 | 346 | 9.2 | 15009.6 | -2157.4 | 436 | 9.7 | 22027.6 | -2139.7 |
| 167 | 9.7 | 05922.9 | -2142.7 | 257 | 9.0 | 12814.2 | -2100.2 | 347 | 9.2 | 15017.2 | -2142.8 | 437 | 9.1 | 22134.6 | -2146.4 |
| 168 | 9.5 | 05926.3 | -2148.5 | 258 | 9.2 | 12821.3 | -2147.9 | 348 | 9.7 | 15040.4 | -2127.9 | 438 | 8.8 | 22214.8 | -2150.7 |
| 169 | 9.8 | 05936.0 | -2128.3 | 259 | 8.5 | 12824.1 | -2156.5 | 349 | 10. | 15108.8 | -2128.4 | 439 | 7.0 | 22236.7 | -2141.2 |
| 170 | 9.9 | 05949.1 | -2145.2 | 260 | 9.1 | 12824.9 | -2114.9 | 350 | 9.7 | 15111.8 | -2122.9 | 440 | 9.1 | 22253.7 | -2153.3 |
| 171 | 10. | 10007.0 | -2105.0 | 261 | 9.4 | 12842.0 | -2116.7 | 351 | 8.5 | 15152.2 | -2133.4 | 441 | 8.5 | 22318.4 | -2129.9 |
| 172 | 9.5 | 10013.1 | -2118.6 | 262 | 9.4 | 12848.0 | -2131.0 | 352 | 7.4 | 15205.0 | -2150.3 | 442 | 8.9 | 22322.6 | -2132.8 |
| 173 | 10. | 10015.5 | -2108.1 | 263 | 9.1 | 12859.7 | -2154.6 | 353 | 9.4 | 15206.1 | -2111.6 | 443 | 9.3 | 22323.3 | -2151.2 |
| 174 | 9.4 | 10023.0 | -2115.3 | 264 | 7.8 | 12911.4 | -2115.4 | 354 | 9.1 | 15224.5 | -2116.4 | 444 | 9.3 | 22334.2 | -2115.6 |
| 175 | 9.0 | 10034.6 | -2110.1 | 265 | 9.3 | 12936.5 | -2151.5 | 355 | 9.2 | 15247.3 | -2135.6 | 445 | 9.3 | 22401.3 | -2116.7 |
| 176 | 9.5 | 10052.7 | -2150.8 | 266 | 8.9 | 12952.1 | -2125.1 | 356 | 6.0 | 15256.3 | -2131.6 | 446 | 9.8 | 22409.4 | -2122.0 |
| 177 | 9.2 | 10054.4 | -2125.9 | 267 | 10. | 13009.3 | -2121.3 | 357 | 9.3 | 15308.1 | -2122.7 | 447 | 10. | 22418.6 | -2138.8 |
| 178 | 10. | 10074.5 | -2149.0 | 268 | 9.5 | 13018.2 | -2154.2 | 358 | 4.1 | 15310.3 | -2146.6 | 448 | 9.5 | 22442.0 | -2133.3 |
| 179 | 10. | 10075.9 | -2139.5 | 269 | 9.2 | 13120.9 | -2148.8 | 359 | 9.5 | 15339.3 | -2127.3 | 449 | 9.4 | 22443.6 | -2117.3 |
| 180 | 10. | 10076.0 | -2148.5 | 270 | 9.7 | 13144.8 | -2129.3 | 360 | 9.2 | 15341.5 | -2112.2 | 450 | 9.6 | 22451.6 | -2150.5 |
| 181 | 9.2 | 1025.8  | -2118.8 | 271 | 9.8 | 13207.4 | -2158.2 | 361 | 9.0 | 15411.4 | -2136.5 | 451 | 9.6 | 22544.9 | -2132.5 |
| 182 | 9.5 | 1053.1  | -2156.3 | 272 | 9.8 | 13221.4 | -2130.1 | 362 | 8.4 | 15429.3 | -2135.9 | 452 | 9.7 | 22555.0 | -2102.1 |
| 183 | 9.1 | 1053.8  | -2153.2 | 273 | 9.5 | 13224.3 | -2157.3 | 363 | 9.4 | 15447.5 | -2117.1 | 453 | 9.4 | 22614.2 | -2124.0 |
| 184 | 9.1 | 10621.4 | -2104.5 | 274 | 8.5 | 13254.4 | -2115.3 | 364 | 9.5 | 15509.9 | -2147.7 | 454 | 9.3 | 22634.7 | -2100.8 |
| 185 | 9.1 | 10626.8 | -2112.6 | 275 | 9.1 | 13314.3 | -2139.2 | 365 | 8.8 | 15543.2 | -2100.8 | 455 | 9.4 | 22752.7 | -2146.8 |
| 186 | 9.8 | 10522.8 | -2142.0 | 276 | 8.9 | 13330.7 | -2144.8 | 366 | 9.3 | 15613.6 | -2142.7 | 456 | 9.6 | 22839.3 | -2124.7 |
| 187 | 9.8 | 10525.9 | -2116.1 | 277 | 9.0 | 13345.9 | -2112.8 | 367 | 10. | 15627.5 | -2113.5 | 457 | 9.4 | 22853.3 | -2148.7 |
| 188 | 7.3 | 10530.5 | -2113.4 | 278 | 8.7 | 13354.5 | -2105.7 | 368 | 9.6 | 15634.6 | -2154.3 | 458 | 9.8 | 22933.4 | -2144.2 |
| 189 | 9.3 | 10604.0 | -2108.7 | 279 | 10. | 13444.5 | -2109.2 | 369 | 9.4 | 15726.4 | -2142.8 | 459 | 8.2 | 22938.9 | -2159.9 |
| 190 | 9.5 | 10634.3 | -2126.0 | 280 | 10. | 13453.3 | -2138.0 | 370 | 9.8 | 15752.2 | -2136.0 | 460 | 9.2 | 22959.0 | -2109.6 |
| 191 | 8.1 | 10647.5 | -2117.1 | 281 | 9.7 | 13519.6 | -2124.9 | 371 | 9.3 | 15757.1 | -2114.7 | 461 | 8.2 | 23007.3 | -2123.9 |
| 192 | 9.9 | 10716.1 | -2113.0 | 282 | 9.5 | 13528.0 | -2134.4 | 372 | 9.1 | 15805.7 | -2139.4 | 462 | 9.0 | 23010.2 | -2156.0 |
| 193 | 9.2 | 10734.6 | -2108.4 | 283 | 9.8 | 13623.0 | -2144.6 | 373 | 9.0 | 15812.0 | -2109.3 | 463 | 9.5 | 23025.4 | -2104.7 |
| 194 | 9.4 | 10746.2 | -2100.4 | 284 | 9.8 | 13624.0 | -2138.1 | 374 | 9.1 | 15815.6 | -2112.6 | 464 | 9.3 | 23034.9 | -2149.2 |
| 195 | 9.4 | 10746.5 | -2151.3 | 285 | 9.6 | 13627.9 | -2107.9 | 375 | 9.5 | 15831.6 | -2117.0 | 465 | 9.7 | 23037.9 | -2109.2 |
| 196 | 9.7 | 10802.4 | -2128.6 | 286 | 9.9 | 13628.0 | -2143.8 | 376 | 9.4 | 15812.0 | -2102.3 | 466 | 8.9 | 23040.5 | -2117.9 |
| 197 | 9.2 | 10835.6 | -2108.0 | 287 | 9.8 | 13725.2 | -2129.2 | 377 | 9.4 | 20038.0 | -2104.0 | 467 | 9.5 | 23053.5 | -2107.0 |
| 198 | 8.8 | 10837.9 | -2140.0 | 288 | 7.6 | 13728.7 | -2118.6 | 378 | 9.5 | 20043.7 | -2134.4 | 468 | 9.6 | 23113.1 | -2124.1 |
| 199 | 9.1 | 10849.2 | -2121.4 | 289 | 10. | 13743.1 | -2137.0 | 379 | 8.7 | 20052.9 | -2130.7 | 469 | 6.8 | 23153.4 | -2105.1 |
| 200 | 9.8 | 10850.7 | -2112.5 | 290 | 10. | 13813.4 | -2134.9 | 380 | 9.6 | 20126.6 | -2120.6 | 470 | 8.0 | 23157.1 | -2140.1 |
| 201 | 9.7 | 10921.6 | -2133.4 | 291 | 9.5 | 13815.9 | -2104.8 | 381 | 9.5 | 20145.9 | -2143.6 | 471 | 8.3 | 23223.5 | -2129.9 |
| 202 | 9.1 | 10937.6 | -2110.6 | 292 | 10. | 13843.2 | -2143.4 | 382 | 8.8 | 20157.6 | -2148.1 | 472 | 10. | 23233.2 | -2118.3 |
| 203 | 10. | 10941.2 | -2102.2 | 293 | 10. | 13906.1 | -2139.7 | 383 | 9.0 | 20236.2 | -2125.6 | 473 | 9.3 | 23259.7 | -2152.5 |
| 204 | 9.5 | 10951.3 | -2110.7 | 294 | 9.1 | 13929.1 | -2140.5 | 384 | 8.8 | 20220.3 | -2126.9 | 474 | 7.5 | 23301.0 | -2102.8 |
| 205 | 9.5 | 11029.7 | -2137.9 | 295 | 9.2 | 13937.5 | -2103.4 | 385 | 9.3 | 20333.3 | -2104.9 | 475 | 9.4 | 23343.3 | -2147.6 |
| 206 | 9.0 | 11050.8 | -2159.5 | 296 | 9.5 | 14013.2 | -2128.9 | 386 | 9.7 | 20344.7 | -2150.9 | 476 | 9.6 | 23427.7 | -2114.9 |
| 207 | 10. | 11057.9 | -2118.7 | 297 | 9.1 | 14028.4 | -2      |     |     |         |         |     |     |         |         |



-21 491 2h37m

491 10. 23745.1 -2159.3  
492 9.9 23754.5 -2128.1  
493 7.0 23840.2 -2101.1  
494 9.4 23905.2 -2145.8  
495 8.9 23909.1 -2129.3  
496 10. 23959.1 -2148.3  
497 9.0 24009.6 -2141.3  
498 9.4 24105.7 -2151.9  
499 7.7 24201.6 -2125.7  
500 9.4 24210.1 -2132.6

501 9.4 24210.3 -2131.1  
502 9.5 24225.1 -2119.8  
503 9.3 24227.6 -2126.7  
504 9.8 24228.1 -2124.2  
505 9.7 24322.6 -2115.8  
506 9.1 24357.5 -2110.4  
507 9.5 24359.1 -2122.1  
508 9.4 24417.8 -2124.3  
509 5.0 24427.0 -2135.8  
510 10. 24505.9 -2109.9

511 8.3 24512.0 -2153.0  
512 9.8 24513.0 -2159.1  
513 9.5 24517.7 -2133.6  
514 8.1 24610.6 -2149.8  
515 9.1 24711.2 -2108.3  
516 10. 24731.4 -2145.5  
517 7.8 24752.2 -2131.1  
518 8.1 24809.7 -2146.9  
519 9.1 24814.4 -2147.8  
520 8.8 24817.6 -2133.8

521 9.8 24837.3 -2122.6  
522 10. 24903.5 -2139.5  
523 9.8 25022.8 -2106.7  
524 7.6 25035.9 -2150.0  
525 9.8 25045.2 -2129.1  
526 9.5 25057.0 -2122.5  
527 9.8 25103.6 -2150.0  
528 9.0 25251.1 -2118.2  
529 8.0 25253.3 -2122.9  
530 9.8 25254.2 -2145.3

531 9.6 25258.6 -2158.2  
532 9.3 25313.0 -2149.0  
533 7.3 25337.1 -2123.6  
534 9.5 25409.2 -2107.0  
535 7.3 25414.5 -2116.2  
536 8.9 25419.1 -2125.5  
537 9.0 25423.0 -2119.1  
538 9.3 25428.3 -2142.8  
539 9.5 25430.7 -2151.9  
540 9.3 25436.2 -2158.7

541 9.1 25503.4 -2100.5  
542 9.6 25531.3 -2134.7  
543 9.7 25534.5 -2110.2  
544 9.1 25600.5 -2103.2  
545 10. 25629.0 -2152.3  
546 9.3 25642.1 -2120.4  
547 10. 25702.9 -2143.0  
548 9.8 25709.9 -2143.2  
549 7.5 25714.4 -2155.8  
550 9.1 25725.8 -2139.7

551 8.5 25730.7 -2117.5  
552 9.1 25750.2 -2138.5  
553 9.0 25752.3 -2107.0  
554 9.6 25800.6 -2151.3  
555 8.2 25803.9 -2158.4  
556 9.5 25837.7 -2141.2  
557 8.5 25855.6 -2141.0  
558 9.5 25921.5 -2131.9  
559 9.8 25935.4 -2158.5  
560 9.2 25944.3 -2124.3

561 9.5 25956.8 -2135.1  
562 9.8 30014.7 -2159.4  
563 8.0 30044.2 -2112.5  
564 8.7 30147.5 -2144.5  
565 9.2 30153.9 -2135.1  
566 9.8 30224.5 -2132.6  
567 10. 30232.1 -2158.7  
568 10. 30338.8 -2105.1  
569 8.8 30344.3 -2107.0  
570 9.7 30419.9 -2131.2

571 8.9 30435.2 -2157.0  
572 9.9 30449.9 -2113.4  
573 7.8 30530.0 -2120.4  
574 9.6 30540.3 -2143.6  
575 9.3 30542.5 -2154.9  
576 7.0 30543.7 -2110.1  
577 9.5 30554.5 -2156.4  
578 9.5 30613.7 -2113.2  
579 9.8 30628.7 -2146.1  
580 10. 30713.0 -2145.9

581 9.9 30726.9 -2159.4  
582 9.4 30731.1 -2147.4  
583 9.1 30733.8 -2102.6  
584 9.2 30733.9 -2108.2  
585 9.8 30739.9 -2129.2  
586 9.5 30749.5 -2149.8  
587 8.6 30823.6 -2103.8  
588 9.4 30842.7 -2109.6  
589 8.9 30925.3 -2122.0  
590 9.5 30926.5 -2149.1

591 9.2 30931.7 -2134.0  
592 9.9 31009.8 -2155.7  
593 9.3 31037.3 -2138.0  
594 8.9 31042.2 -2112.9  
595 9.1 31053.3 -2140.0  
596 9.1 31054.6 -2134.8  
597 9.4 31126.1 -2158.4  
598 9.4 31129.8 -2138.7  
599 9.4 31144.9 -2141.6  
600 9.2 31159.4 -2149.6

601 9.2 31211.8 -2102.6  
602 9.6 31229.8 -2126.0  
603 9.5 31240.5 -2114.1  
604 8.8 31329.6 -2100.3  
605 9.1 31331.5 -2121.9  
606 9.4 31334.3 -2125.8  
607 9.5 31334.4 -2147.6  
608 9.5 31408.7 -2102.8  
609 9.4 31411.2 -2110.2  
610 9.1 31426.3 -2108.4

611 9.0 31435.1 -2138.2  
612 9.4 31445.4 -2129.7  
613 9.0 31502.2 -2158.7  
614 9.5 31503.0 -2129.8  
615 9.4 31526.7 -2124.8  
616 7.0 31548.6 -2137.4  
617 10. 31614.8 -2142.9  
618 8.8 31617.2 -2156.2  
619 7.2 31739.5 -2127.1  
620 9.8 31755.3 -2145.1

621 7.8 31845.3 -2135.3  
622 9.8 31852.7 -2158.5  
623 8.9 31947.0 -2117.7  
624 9.8 31950.7 -2150.6  
625 9.4 31953.3 -2122.8  
626 9.5 31959.0 -2116.1  
627 9.5 32010.5 -2117.4  
628 9.1 32020.0 -2108.0  
629 9.5 32055.6 -2118.3  
630 8.9 32119.6 -2154.1

631 9.0 32137.3 -2127.6  
632 9.4 32151.4 -2104.2  
633 9.5 32209.9 -2120.6  
634 9.8 32210.1 -2143.8  
635 9.5 32238.3 -2155.7  
636 7.8 32250.6 -2152.3  
637 8.3 32313.3 -2154.9  
638 9.5 32343.2 -2125.2  
639 9.5 32426.0 -2152.8  
640 9.5 32429.7 -2123.8

641 9.9 32430.4 -2114.7  
642 9.4 32511.2 -2133.9  
643 9.1 32521.4 -2149.1  
644 8.5 32538.6 -2144.5  
645 9.4 32553.7 -2147.1  
646 9.0 32558.5 -2106.4  
647 9.3 32601.6 -2148.0  
648 9.3 32611.1 -2107.8  
649 8.8 32631.5 -2116.7  
650 9.5 32631.9 -2126.7

651 9.5 32655.8 -2106.6  
652 9.6 32700.3 -2112.2  
653 9.3 32719.2 -2128.3  
654 9.6 32807.7 -2147.7  
655 9.8 32830.2 -2129.7  
656 9.7 32902.6 -2138.2  
657 9.5 32910.1 -2132.6  
658 9.2 32931.9 -2155.7  
659 9.7 32940.9 -2152.7  
660 9.0 33003.8 -2107.2

661 9.9 33031.1 -2149.4  
662 9.8 33051.9 -2156.2  
663 8.8 33100.5 -2122.5  
664 8.8 33200.9 -2113.3  
665 8.9 33218.9 -2147.7  
666 9.8 33239.0 -2115.8  
667 8.0 33257.8 -2103.8  
668 8.8 33314.1 -2119.0  
669 9.3 33333.6 -2119.4  
670 9.1 33343.9 -2106.1

671 10. 33356.8 -2158.8  
672 8.6 33404.6 -2151.2  
673 9.8 33534.0 -2105.2  
674 8.0 33538.5 -2142.0  
675 8.8 33559.6 -2109.6  
676 9.0 33601.6 -2135.1  
677 8.3 33613.9 -2100.9  
678 9.5 33631.8 -2152.8  
679 9.8 33657.0 -2112.9  
680 9.1 33712.0 -2106.1

681 9.2 33734.7 -2127.2  
682 7.8 33757.6 -2134.0  
683 9.1 33816.2 -2157.9  
684 9.4 33816.7 -2122.3  
685 8.8 33823.7 -2145.3  
686 10. 33833.1 -2155.2  
687 9.0 33846.7 -2145.7  
688 10. 33849.8 -2128.6  
689 8.8 33905.3 -2141.3  
690 9.5 33927.4 -2131.2

691 9.5 33929.8 -2117.1  
692 8.7 33932.9 -2126.2  
693 9.4 33939.9 -2153.8  
694 9.1 33942.0 -2132.6  
695 8.7 33956.3 -2116.4  
696 9.6 34004.4 -2130.5  
697 9.5 34031.7 -2112.4  
698 9.8 34038.8 -2156.8  
699 9.3 34125.2 -2146.2  
700 9.4 34129.3 -2157.7

701 9.9 34130.5 -2129.0  
702 9.8 34130.6 -2148.7  
703 5.7 34211.9 -2120.8  
704 9.0 34226.2 -2144.8  
705 9.7 34236.3 -2115.6  
706 9.8 34238.8 -2157.7  
707 8.8 34257.2 -2119.0  
708 9.8 34312.9 -2100.5  
709 9.5 34333.4 -2145.5  
710 9.8 34355.7 -2127.0

711 9.0 34411.5 -2105.4  
712 9.3 34442.5 -2154.8  
713 6.6 34509.1 -2143.2  
714 9.8 34517.3 -2128.6  
715 9.0 34530.7 -2139.7  
716 9.8 34538.1 -2114.1  
717 9.3 34539.7 -2139.8  
718 9.3 34558.3 -2130.9  
719 9.0 34605.8 -2136.1  
720 9.9 34609.0 -2137.4

721 9.5 34610.3 -2141.0  
722 8.8 34614.1 -2115.2  
723 10. 34630.6 -2154.5  
724 9.7 34641.8 -2146.9  
725 9.8 34651.9 -2146.4  
726 9.5 34652.3 -2123.0  
727 8.3 34707.6 -2126.5  
728 9.7 34742.6 -2146.8  
729 9.4 34756.0 -2138.1  
730 9.2 34757.6 -2131.2

731 8.5 34817.1 -2107.0  
732 9.7 34819.6 -2127.2  
733 9.0 34846.7 -2143.4  
734 9.8 34848.7 -2137.8  
735 9.5 34854.5 -2140.1  
736 8.3 34902.0 -2159.9  
737 9.7 34907.3 -2108.4  
738 9.1 34951.3 -2113.1  
739 9.0 34951.5 -2106.1  
740 9.7 35004.5 -2156.5

741 9.3 35014.4 -2121.5  
742 9.2 35043.8 -2134.9  
743 9.8 35118.6 -2139.5  
744 9.4 35130.1 -2156.9  
745 8.9 35142.6 -2156.0  
746 9.9 35206.9 -2150.0  
747 9.6 35212.2 -2154.2  
748 9.4 35223.3 -2126.6  
749 9.5 35233.6 -2123.6  
750 9.8 35257.5 -2159.5

751 9.8 35334.3 -2156.6  
752 9.5 35342.2 -2122.8  
753 9.8 35342.3 -2104.7  
754 9.0 35349.5 -2122.1  
755 9.1 35353.9 -2144.2  
756 9.3 35419.1 -2133.6  
757 9.8 35419.4 -2111.2  
758 7.5 35432.8 -2107.6  
759 9.4 35433.8 -2156.6  
760 8.3 35437.9 -2154.5

761 8.7 35448.8 -2133.1  
762 8.8 35456.0 -2144.4  
763 9.5 35457.4 -2144.9  
764 7.0 35535.4 -2125.7  
765 7.8 35624.2 -2107.9  
766 9.6 35628.0 -2125.0  
767 9.5 35628.8 -2106.0  
768 7.6 35656.6 -2149.3  
769 10. 35717.1 -2154.7  
770 8.7 35756.8 -2100.1

771 8.6 35756.9 -2144.9  
772 9.6 35759.2 -2141.1  
773 9.0 35807.9 -2128.9  
774 8.8 35814.0 -2152.0  
775 8.5 35838.4 -2113.7  
776 9.7 35845.3 -2144.4  
777 7.5 35851.7 -2151.3  
778 9.4 35855.1 -2114.8  
779 9.5 35858.6 -2147.0  
780 9.7 35903.4 -2153.2

781 9.8 35922.0 -2132.0  
782 9.8 35954.4 -2103.5  
783 9.8 40006.6 -2142.4  
784 9.1 40013.2 -2113.0  
785 9.1 40013.6 -2159.3  
786 9.2 40020.0 -2134.8  
787 9.4 40036.2 -2107.5  
788 9.5 40036.3 -2116.4  
789 9.6 40129.1 -2121.9  
790 9.5 40201.0 -2107.5

791 8.2 40201.7 -2131.3  
792 8.7 40228.5 -2154.7  
793 9.8 40231.1 -2116.2  
794 9.1 40236.4 -2100.4  
795 9.5 40238.3 -2153.0  
796 9.5 40239.6 -2118.9  
797 8.5 40249.0 -2105.5  
798 9.8 40305.0 -2107.1  
799 9.8 40310.3 -2126.0  
800 9.3 40324.3 -2125.7

801 9.1 40343.5 -2153.0  
802 9.5 40357.4 -2106.8  
803 9.4 40428.2 -2122.1  
804 9.4 40505.8 -2134.8  
805 9.1 40507.1 -2133.5  
806 9.4 40517.6 -2106.8  
807 4.2 40525.2 -2147.8  
808 9.5 40525.9 -2129.6  
809 9.1 40527.6 -2107.7  
810 9.4 40533.4 -2137.2

811 9.4 40537.5 -2134.8  
812 9.5 40634.5 -2144.4  
813 9.3 40703.8 -2130.4  
814 9.6 40711.5 -2140.7  
815 9.0 40748.1 -2127.0  
816 9.0 40804.7 -2112.0  
817 8.5 40805.6 -2105.6  
818 9.5 40817.3 -2149.6  
819 9.1 40847.4 -2119.9  
820 9.5 40851.5 -2109.4

821 9.3 40853.2 -2126.0  
822 9.4 40858.3 -2130.0  
823 9.8 40911.0 -2148.2  
824 9.5 40927.6 -2123.7  
825 9.0 40948.9 -2134.5  
826 8.5 41010.7 -2104.6  
827 9.5 41053.1 -2112.2  
828 9.0 41058.4 -2122.6  
829 8.1 41120.8 -2136.8  
830 9.5 41153.1 -2148.5

831 6.2 41157.5 -2104.2  
832 8.8 41201.3 -2106.8  
833 9.1 41217.1 -2128.9  
834 9.4 41229.7 -2145.1  
835 9.5 41235.8 -2155.0  
836 9.3 41249.6 -2132.5  
837 9.0 41335.0 -2103.2  
838 9.8 41349.3 -2155.9  
839 9.2 41352.0 -2142.6  
840 9.2 41406.4 -2146.0

841 9.5 41405.9 -2152.7  
842 7.3 41408.4 -2140.9  
843 8.7 41409.7 -2133.8  
844 9.1 41412.6 -2140.8  
845 7.2 41440.0 -2135.6  
846 9.4 41500.3 -2125.1  
847 9.1 41502.4 -2158.4  
848 8.3 41509.0 -2116.3  
849 10. 41534.3 -2154.1  
850 9.4 41612.7 -2131.5

-21 850 4h16m



-21 851 4h16m

851 9.8 41622.6 -2137.6  
852 8.5 41633.4 -2105.8  
853 8.9 41637.3 -2156.4  
854 8.9 41652.6 -2157.4  
855 9.1 41715.2 -2142.3  
856 10. 41734.4 -2156.7  
857 9.8 41750.3 -2153.5  
858 7.3 41820.6 -2149.5  
859 7.7 41845.5 -2132.9  
860 9.2 41853.6 -2145.8  
  
861 10. 41904.0 -2105.7  
862 9.5 41906.2 -2134.0  
863 9.5 41912.5 -2115.7  
864 8.5 41914.3 -2117.5  
865 9.0 41928.2 -2138.7  
866 9.0 41939.8 -2126.9  
867 9.5 41943.4 -2149.4  
868 8.8 42007.3 -2150.5  
869 8.3 42008.1 -2117.5  
870 9.8 42019.0 -2158.9  
  
871 9.2 42020.8 -2159.9  
872 9.1 42032.8 -2145.0  
873 9.8 42049.1 -2111.9  
874 9.3 42100.7 -2154.7  
875 9.4 42105.2 -2157.8  
876 9.8 42123.6 -2158.0  
877 9.4 42129.6 -2152.4  
878 6.7 42140.4 -2149.5  
879 9.5 42154.2 -2130.7  
880 9.8 42208.5 -2127.8  
  
881 9.2 42230.1 -2109.7  
882 9.8 42240.7 -2112.0  
883 10. 42245.3 -2129.2  
884 9.8 42254.9 -2152.8  
885 9.5 42257.1 -2109.6  
886 8.4 42306.6 -2145.1  
887 9.3 42315.2 -2151.2  
888 9.0 42318.3 -2118.5  
889 9.5 42325.9 -2149.5  
890 9.6 42327.7 -2155.5  
  
891 9.0 42338.1 -2104.0  
892 8.8 42352.2 -2109.9  
893 9.9 42413.2 -2159.4  
894 8.4 42416.1 -2113.4  
895 7.6 42432.3 -2141.5  
896 7.8 42433.7 -2108.7  
897 10. 42458.3 -2129.4  
898 9.6 42514.0 -2142.4  
899 9.4 42520.1 -2113.2  
900 8.5 42526.8 -2119.2  
  
901 10. 42529.5 -2155.1  
902 8.2 42538.4 -2132.4  
903 8.9 42540.3 -2143.4  
904 6.5 42542.0 -2100.6  
905 9.0 42613.3 -2138.0  
906 9.8 42636.3 -2118.7  
907 8.8 42647.7 -2127.7  
908 8.8 42700.0 -2111.5  
909 9.1 42700.8 -2146.2  
910 9.0 42701.3 -2126.4  
  
911 8.6 42705.3 -2141.0  
912 9.4 42705.7 -2153.2  
913 10. 42737.1 -2143.4  
914 9.5 42754.3 -2108.2  
915 8.8 42809.5 -2157.7  
916 7.5 42847.2 -2102.7  
917 9.8 42900.3 -2114.5  
918 8.5 42905.1 -2103.8  
919 7.5 42930.0 -2138.1  
920 9.3 42935.9 -2157.7  
  
921 8.0 43002.5 -2137.0  
922 9.1 43012.7 -2104.3  
923 10. 43020.0 -2141.9  
924 9.8 43026.6 -2114.8  
925 9.2 43028.1 -2122.4  
926 9.5 43045.0 -2159.3  
927 9.8 43050.4 -2107.6  
928 9.8 43108.8 -2159.0  
929 9.0 43110.9 -2156.5  
930 9.5 43122.6 -2137.1  
  
931 9.4 43130.6 -2154.7  
932 9.5 43148.8 -2100.9  
933 8.8 43155.4 -2108.0  
934 9.0 43204.0 -2140.7  
935 9.8 43216.5 -2118.5  
936 8.9 43217.1 -2108.4  
937 8.8 43231.5 -2142.4  
938 9.2 43257.6 -2135.3  
939 9.3 43311.0 -2154.7  
940 8.9 43320.6 -2131.1

941 7.3 43322.1 -2131.7  
942 9.6 43334.7 -2104.2  
943 9.5 43335.2 -2105.5  
944 9.1 43354.6 -2123.6  
945 9.8 43401.1 -2142.7  
946 9.5 43422.6 -2147.0  
947 9.4 43441.3 -2143.4  
948 8.7 43530.2 -2138.6  
949 9.5 43544.9 -2106.8  
950 9.1 43552.2 -2108.1  
  
951 9.1 43558.7 -2152.5  
952 10. 43613.1 -2139.9  
953 7.3 43615.5 -2115.0  
954 9.5 43703.3 -2131.0  
955 9.7 43708.6 -2129.5  
956 9.7 43713.7 -2133.1  
957 8.8 43721.2 -2104.4  
958 8.8 43723.5 -2100.3  
959 8.6 43730.9 -2143.2  
960 7.6 43748.5 -2122.8  
  
961 8.7 43749.9 -2157.7  
962 9.1 43753.7 -2148.7  
963 9.8 43804.2 -2118.3  
964 9.6 43821.0 -2148.5  
965 9.4 43835.6 -2141.5  
966 5.5 43849.7 -2133.1  
967 9.8 43904.6 -2130.1  
968 10. 43904.7 -2156.1  
969 9.5 43959.4 -2132.8  
970 8.5 43959.4 -2143.8  
  
971 10. 44005.6 -2117.8  
972 9.4 44007.7 -2140.5  
973 9.4 44014.0 -2125.9  
974 9.2 44030.8 -2123.8  
975 8.8 44036.2 -2123.0  
976 8.8 44038.1 -2151.2  
977 7.0 44042.8 -2120.5  
978 9.5 44052.5 -2151.2  
979 7.8 44130.5 -2104.3  
980 9.7 44140.1 -2143.5  
  
981 9.8 44148.0 -2122.0  
982 8.5 44200.9 -2110.2  
983 9.3 44215.5 -2157.0  
984 9.5 44224.0 -2123.1  
985 9.3 44226.3 -2146.2  
986 9.5 44236.6 -2138.3  
987 9.4 44250.0 -2108.9  
988 9.5 44306.0 -2114.7  
989 9.7 44324.5 -2158.0  
990 9.0 44340.6 -2112.1  
  
991 9.3 44411.6 -2123.0  
992 9.1 44444.6 -2130.8  
993 9.0 44508.1 -2123.2  
994 9.8 44554.6 -2154.1  
995 9.6 44604.3 -2157.9  
996 9.7 44612.3 -2153.4  
997 9.1 44614.6 -2158.3  
998 8.8 44615.3 -2109.9  
999 9.4 44617.5 -2148.1  
1000 8.8 44621.9 -2149.1  
  
1001 9.5 44642.2 -2144.3  
1002 9.0 44651.8 -2137.1  
1003 7.0 44657.4 -2101.0  
1004 9.4 44703.3 -2125.7  
1005 8.5 44711.6 -2154.2  
1006 8.5 44722.2 -2146.9  
1007 9.8 44729.0 -2116.8  
1008 9.5 44729.9 -2137.1  
1009 9.5 44753.8 -2129.3  
1010 9.7 44815.8 -2158.5  
  
1011 9.1 44816.6 -2137.8  
1012 9.7 44838.2 -2141.6  
1013 8.9 44840.2 -2124.7  
1014 9.1 44844.0 -2125.7  
1015 9.6 44903.2 -2144.5  
1016 9.4 44918.7 -2136.1  
1017 9.7 44923.1 -2153.4  
1018 9.2 44923.7 -2134.8  
1019 9.7 45005.1 -2127.2  
1020 9.3 45017.4 -2156.0  
  
1021 9.4 45031.8 -2119.1  
1022 9.2 45037.4 -2134.3  
1023 9.1 45040.9 -2133.8  
1024 9.7 45050.4 -2138.7  
1025 10. 45059.5 -2127.5  
1026 9.2 45104.1 -2131.5  
1027 9.3 45105.2 -2101.3  
1028 9.4 45107.8 -2120.1  
1029 10. 45130.1 -2153.7  
1030 9.5 45144.7 -2155.5

1031 9.5 45206.3 -2114.5  
1032 9.7 45210.0 -2148.2  
1033 9.6 45233.5 -2132.5  
1034 9.5 45249.3 -2111.5  
1035 9.6 45256.6 -2113.3  
1036 9.1 45304.9 -2119.1  
1037 9.5 45310.4 -2155.6  
1038 9.0 45333.5 -2137.2  
1039 9.5 45336.7 -2142.6  
1040 8.8 45402.1 -2106.4  
  
1041 9.6 45421.4 -2148.7  
1042 9.6 45427.8 -2137.7  
1043 9.9 45445.4 -2151.4  
1044 8.9 45457.4 -2112.4  
1045 8.2 45518.8 -2152.8  
1046 9.4 45520.9 -2119.6  
1047 9.8 45540.1 -2107.7  
1048 9.8 45605.9 -2120.2  
1049 9.4 45609.4 -2148.3  
1050 9.4 45610.3 -2144.7  
  
1051 8.2 45617.7 -2128.1  
1052 9.5 45618.8 -2146.8  
1053 9.0 45631.0 -2137.5  
1054 8.0 45631.4 -2118.6  
1055 9.4 45638.9 -2118.7  
1056 9.7 45651.1 -2148.6  
1057 9.3 45719.6 -2133.2  
1058 9.1 45719.7 -2139.5  
1059 9.2 45720.6 -2145.5  
1060 9.5 45805.5 -2150.5  
  
1061 8.5 45810.4 -2120.4  
1062 9.9 45818.4 -2144.5  
1063 9.5 45820.1 -2128.0  
1064 9.5 45828.9 -2152.5  
1065 7.5 45829.3 -2125.7  
1066 9.5 45852.9 -2155.6  
1067 7.7 45905.4 -2127.6  
1068 8.6 45923.2 -2137.4  
1069 9.8 45939.7 -2157.0  
1070 8.5 45944.0 -2121.1  
  
1071 8.5 45955.4 -2105.0  
1072 10. 50034.1 -2107.1  
1073 9.5 50037.0 -2128.7  
1074 9.3 50039.2 -2147.2  
1075 10. 50104.1 -2130.0  
1076 9.2 50130.5 -2140.2  
1077 9.8 50132.9 -2101.0  
1078 8.4 50156.8 -2139.4  
1079 9.1 50158.6 -2149.3  
1080 9.2 50159.4 -2107.5  
  
1081 9.5 50216.3 -2158.1  
1082 9.2 50218.5 -2116.0  
1083 9.5 50250.0 -2124.6  
1084 9.0 50250.2 -2157.2  
1085 9.5 50300.4 -2113.5  
1086 9.3 50317.4 -2159.7  
1087 9.8 50345.4 -2115.5  
1088 10. 50401.6 -2128.8  
1089 9.8 50405.5 -2117.5  
1090 8.7 50408.3 -2157.5  
  
1091 9.6 50416.6 -2144.0  
1092 9.6 50417.2 -2148.0  
1093 9.3 50419.5 -2116.6  
1094 10. 50452.2 -2150.7  
1095 9.0 50453.9 -2140.5  
1096 9.0 50458.5 -2104.9  
1097 9.4 50518.7 -2128.9  
1098 9.5 50521.4 -2134.6  
1099 9.7 50521.8 -2145.4  
1100 9.4 50527.6 -2120.3  
  
1101 9.6 50558.6 -2123.6  
1102 9.1 50615.1 -2133.5  
1103 9.2 50640.1 -2152.2  
1104 9.8 50645.7 -2109.3  
1105 9.4 50646.4 -2125.9  
1106 9.7 50738.3 -2129.0  
1107 7.5 50754.8 -2149.4  
1108 9.0 50758.8 -2149.1  
1109 9.5 50811.7 -2149.7  
1110 9.6 50815.2 -2102.1  
  
1111 9.1 50817.2 -2159.2  
1112 9.3 50834.2 -2146.3  
1113 9.8 50837.5 -2104.1  
1114 9.8 50847.9 -2101.0  
1115 9.8 50856.9 -2125.3  
1116 9.2 50902.9 -2148.1  
1117 8.3 50925.1 -2122.2  
1118 9.7 50929.5 -2141.0  
1119 7.8 51018.5 -2115.9  
1120 9.8 51033.9 -2156.8

1121 10. 51042.6 -2127.1  
1122 9.3 51044.2 -2144.2  
1123 8.8 51046.0 -2125.6  
1124 9.5 51059.7 -2116.8  
1125 9.3 51108.9 -2112.5  
1126 9.7 51122.6 -2154.2  
1127 10. 51208.2 -2150.4  
1128 7.7 51210.0 -2158.9  
1129 8.3 51213.2 -2102.0  
1130 9.5 51213.2 -2146.2  
  
1131 9.1 51239.1 -2133.2  
1132 9.0 51252.0 -2117.1  
1133 9.8 51349.4 -2150.1  
1134 9.5 51402.8 -2104.1  
1135 5.0 51415.1 -2123.1  
1136 9.5 51423.6 -2141.6  
1137 8.0 51443.4 -2111.0  
1138 8.6 51453.0 -2149.9  
1139 9.6 51503.0 -2125.1  
1140 9.5 51510.0 -2118.4  
  
1141 9.5 51517.9 -2124.5  
1142 9.6 51519.5 -2130.7  
1143 9.3 51521.6 -2122.5  
1144 9.8 51541.9 -2148.2  
1145 9.5 51547.8 -2158.6  
1146 9.4 51558.7 -2140.0  
1147 9.4 51605.5 -2119.2  
1148 9.4 51610.1 -2159.8  
1149 9.5 51612.1 -2129.4  
1150 9.5 51621.1 -2128.7  
  
1151 9.0 51633.4 -2156.3  
1152 9.4 51653.9 -2104.3  
1153 9.7 51656.3 -2145.6  
1154 9.5 51659.4 -2103.8  
1155 8.9 51711.2 -2121.2  
1156 9.3 51724.9 -2126.1  
1157 9.2 51725.1 -2113.8  
1158 9.4 51731.3 -2145.8  
1159 9.0 51805.5 -2115.6  
1160 9.3 51808.7 -2156.8  
  
1161 9.7 51809.6 -2136.1  
1162 10. 51815.4 -2140.4  
1163 9.2 51820.4 -2152.1  
1164 10. 51848.2 -2141.8  
1165 9.1 51928.7 -2124.1  
1166 9.5 51935.4 -2153.8  
1167 9.2 51927.4 -2124.2  
1168 9.6 52020.9 -2130.1  
1169 8.8 52039.2 -2147.6  
1170 9.5 52040.7 -2135.6  
  
1171 9.4 52049.4 -2126.3  
1172 9.4 52100.0 -2105.0  
1173 8.3 52124.5 -2102.5  
1174 6.1 52126.0 -2130.0  
1175 9.4 52206.0 -2114.1  
1176 8.8 52210.4 -2115.7  
1177 9.0 52221.5 -2148.9  
1178 9.7 52225.9 -2143.7  
1179 7.7 52319.1 -2109.7  
1180 9.5 52407.6 -2100.9  
  
1181 8.0 52438.6 -2131.1  
1182 9.4 52444.2 -2135.0  
1183 8.5 52446.4 -2141.6  
1184 8.9 52449.0 -2114.3  
1185 8.8 52457.6 -2128.0  
1186 9.1 52543.5 -2152.4  
1187 9.9 52534.2 -2133.0  
1188 9.0 52537.7 -2103.9  
1189 9.2 52542.5 -2154.2  
1190 9.9 52548.6 -2103.3  
  
1191 8.8 52615.9 -2124.5  
1192 9.0 52645.7 -2117.7  
1193 8.5 52645.9 -2107.6  
1194 9.5 52646.4 -2102.9  
1195 8.9 52646.7 -2151.4  
1196 9.2 52705.9 -2159.9  
1197 9.8 52713.8 -2150.2  
1198 10. 52728.6 -2107.4  
1199 8.4 52743.3 -2116.4  
1200 9.0 52758.2 -2137.9  
  
1201 9.2 52812.1 -2104.3  
1202 9.1 52818.6 -2130.0  
1203 9.7 52829.6 -2147.3  
1204 9.8 52835.9 -2155.9  
1205 7.5 52847.0 -2109.9  
1206 9.1 52906.9 -2153.9  
1207 9.5 52953.2 -2126.8  
1208 9.6 52957.8 -2102.2  
1209 9.4 53016.3 -2128.3  
1210 9.8 53020.1 -2117.5

-21 1210 5h30m



-21 1211 5h30m

1211 9.2 53026.7 -2141.1  
1212 9.5 53032.9 -2143.4  
1213 9.0 53139.3 -2142.6  
1214 9.2 53202.8 -2123.7  
1215 9.4 53204.7 -2109.1  
1216 9.0 53212.8 -2120.3  
1217 9.6 53213.8 -2146.5  
1218 9.4 53228.3 -2120.7  
1219 9.2 53249.2 -2116.2  
1220 9.5 53329.3 -2114.4

1221 9.0 53330.3 -2141.9  
1222 9.5 53341.1 -2122.4  
1223 9.0 53341.2 -2107.2  
1224 9.4 53350.3 -2156.7  
1225 9.5 53404.0 -2150.8  
1226 9.8 53408.4 -2135.8  
1227 9.1 53415.1 -2103.6  
1228 9.3 53429.3 -2119.5  
1229 8.5 53429.7 -2118.5  
1230 9.3 53433.3 -2158.0

1231 7.8 53450.8 -2137.2  
1232 9.5 53513.2 -2115.0  
1233 9.2 53514.7 -2136.4  
1234 9.4 53522.4 -2140.8  
1235 9.5 53539.3 -2156.2  
1236 9.4 53544.4 -2121.2  
1237 9.8 53558.8 -2128.0  
1238 9.2 53620.4 -2136.7  
1239 9.1 53620.6 -2127.7  
1240 9.0 53642.2 -2106.4

1241 9.3 53657.1 -2131.7  
1242 9.5 53709.4 -2101.8  
1243 9.7 53716.5 -2147.9  
1244 6.7 53736.4 -2129.5  
1245 7.2 53740.8 -2120.7  
1246 9.0 53745.9 -2102.2  
1247 9.5 53753.7 -2159.0  
1248 9.5 53807.0 -2153.0  
1249 9.5 53821.2 -2150.7  
1250 9.5 53829.0 -2106.2

1251 9.1 53839.8 -2134.4  
1252 7.2 53842.4 -2143.1  
1253 9.0 53846.5 -2145.5  
1254 9.8 53910.7 -2157.2  
1255 9.8 53946.6 -2132.5  
1256 9.0 54010.0 -2153.3  
1257 9.0 54011.3 -2148.5  
1258 9.9 54022.2 -2101.3  
1259 9.1 54023.9 -2120.9  
1260 8.0 54028.7 -2104.6

1261 8.7 54033.9 -2152.9  
1262 7.9 54102.8 -2135.9  
1263 9.6 54112.4 -2140.8  
1264 10.1 54126.3 -2125.5  
1265 10.1 54129.3 -2113.8  
1266 10.1 54130.5 -2156.0  
1267 8.7 54136.7 -2110.1  
1268 9.0 54146.2 -2143.9  
1269 9.8 54202.0 -2100.4  
1270 10.1 54204.2 -2145.4

1271 9.1 54210.3 -2152.3  
1272 9.5 54257.3 -2153.3  
1273 9.4 54200.5 -2127.1  
1274 9.4 54225.8 -2117.6  
1275 9.1 54325.9 -2143.4  
1276 9.0 54333.9 -2140.4  
1277 9.0 54352.3 -2126.8  
1278 9.7 54412.4 -2156.4  
1279 9.7 54425.8 -2118.7  
1280 9.0 54429.0 -2154.0

1281 9.7 54451.9 -2144.0  
1282 9.7 54502.0 -2143.1  
1283 9.4 54511.5 -2138.0  
1284 8.4 54529.0 -2139.8  
1285 9.5 54533.8 -2114.7  
1286 9.5 54600.7 -2103.2  
1287 8.3 54607.2 -2154.0  
1288 9.5 54612.8 -2107.5  
1289 9.0 54615.1 -2133.9  
1290 9.0 54625.6 -2142.2

1291 9.7 54629.2 -2143.0  
1292 9.5 54653.4 -2119.6  
1293 9.3 54656.4 -2132.5  
1294 8.9 54707.4 -2150.6  
1295 9.7 54804.0 -2147.4  
1296 9.7 54817.4 -2136.2  
1297 9.6 54833.0 -2146.8  
1298 8.5 54833.3 -2118.4  
1299 10.1 54849.6 -2155.5  
1300 9.5 54906.5 -2127.6

1301 9.8 54907.6 -2110.0  
1302 9.2 54908.2 -2127.6  
1303 9.8 54943.9 -2158.8  
1304 7.0 54944.3 -2142.3  
1305 9.0 54948.9 -2124.6  
1306 9.2 54955.2 -2102.7  
1307 7.0 54959.3 -2108.9  
1308 9.5 55002.2 -2105.9  
1309 8.3 55005.8 -2130.9  
1310 9.2 55005.9 -2128.3

1311 9.1 55012.2 -2140.5  
1312 8.8 55043.6 -2148.4  
1313 8.6 55110.2 -2104.9  
1314 8.3 55151.8 -2130.1  
1315 9.8 55201.5 -2127.9  
1316 7.8 55225.5 -2133.7  
1317 9.5 55309.4 -2123.8  
1318 10.1 55324.9 -2159.1  
1319 9.8 55338.9 -2158.4  
1320 9.2 55351.4 -2100.5

1321 8.2 55351.7 -2125.4  
1322 9.8 55412.9 -2115.9  
1323 8.5 55439.3 -2109.2  
1324 8.0 55440.7 -2100.7  
1325 8.4 55442.7 -2156.9  
1326 9.9 55449.5 -2145.5  
1327 9.1 55459.4 -2125.4  
1328 10.1 55506.5 -2156.9  
1329 9.4 55519.0 -2120.8  
1330 8.5 55552.1 -2148.5

1331 9.3 55614.2 -2155.0  
1332 9.7 55633.4 -2146.4  
1333 9.5 55641.1 -2117.5  
1334 9.6 55641.7 -2142.8  
1335 9.1 55643.0 -2148.3  
1336 7.6 55716.4 -2147.2  
1337 8.7 55718.2 -2140.4  
1338 9.5 55728.1 -2100.0  
1339 9.4 55733.6 -2150.3  
1340 9.3 55757.2 -2117.1

1341 9.6 55759.0 -2128.5  
1342 9.3 55815.7 -2143.3  
1343 9.5 55828.6 -2127.9  
1344 9.4 55829.7 -2154.5  
1345 9.0 55845.8 -2140.9  
1346 9.6 55859.0 -2143.3  
1347 9.9 55932.8 -2149.6  
1348 9.4 55944.0 -2124.4  
1349 9.5 55954.4 -2111.7  
1350 10.1 60007.9 -2129.7

1351 10.1 60009.8 -2129.7  
1352 9.4 60021.5 -2135.7  
1353 6.1 60049.3 -2147.9  
1354 9.1 60050.4 -2113.5  
1355 9.5 60102.5 -2122.0  
1356 8.5 60106.2 -2131.0  
1357 8.3 60113.4 -2111.1  
1358 9.0 60127.3 -2110.4  
1359 9.4 60128.0 -2137.6  
1360 9.8 60149.4 -2130.0

1361 9.4 60209.5 -2118.7  
1362 9.2 60217.1 -2156.1  
1363 9.5 60236.5 -2143.2  
1364 9.2 60303.5 -2122.9  
1365 9.1 60308.7 -2143.0  
1366 9.2 60322.4 -2112.4  
1367 9.6 60329.3 -2143.7  
1368 9.8 60330.8 -2153.8  
1369 8.9 60333.2 -2159.7  
1370 10.1 60340.5 -2129.0

1371 9.1 60343.2 -2110.8  
1372 9.6 60346.2 -2113.0  
1373 9.5 60402.9 -2108.8  
1374 10.1 60408.8 -2126.2  
1375 9.8 60419.2 -2157.2  
1376 9.3 60419.3 -2124.5  
1377 8.7 60428.3 -2148.9  
1378 9.7 60428.4 -2144.5  
1379 9.7 60429.9 -2101.1  
1380 9.8 60447.4 -2100.6

1381 9.4 60500.2 -2135.0  
1382 9.6 60519.5 -2148.2  
1383 8.8 60526.5 -2126.4  
1384 9.1 60528.2 -2112.5  
1385 9.3 60556.9 -2159.5  
1386 8.9 60623.2 -2128.2  
1387 9.4 60633.4 -2143.5  
1388 9.5 60641.0 -2106.4  
1389 9.5 60642.0 -2159.9  
1390 9.8 60713.6 -2159.7

1391 8.2 60717.4 -2113.8  
1392 9.5 60718.9 -2109.5  
1393 9.5 60721.1 -2107.9  
1394 9.7 60723.1 -2155.5  
1395 9.8 60739.1 -2146.2  
1396 9.5 60819.5 -2127.1  
1397 9.8 60844.7 -2118.8  
1398 9.4 60850.8 -2104.0  
1399 8.6 60901.8 -2105.7  
1400 9.0 60910.9 -2114.0

1401 9.3 60917.9 -2135.7  
1402 10.1 60924.2 -2133.1  
1403 10.1 60926.4 -2125.0  
1404 9.8 60928.4 -2125.0  
1405 9.2 60949.7 -2106.8  
1406 9.1 60951.3 -2149.2  
1407 9.9 60956.9 -2114.5  
1408 9.0 61052.3 -2107.5  
1409 9.5 61055.0 -2137.2  
1410 8.5 61109.3 -2141.6

1411 8.9 61131.7 -2142.3  
1412 10.1 61136.1 -2105.9  
1413 9.4 61210.4 -2117.3  
1414 10.1 61219.3 -2156.4  
1415 9.5 61232.8 -2100.2  
1416 9.1 61237.5 -2103.1  
1417 8.8 61237.7 -2154.7  
1418 8.1 61250.6 -2158.8  
1419 10.1 61253.3 -2139.9  
1420 9.2 61301.6 -2141.5

1421 9.5 61306.9 -2109.5  
1422 9.7 61320.5 -2128.8  
1423 9.5 61321.3 -2147.8  
1424 9.1 61341.0 -2135.9  
1425 9.4 61357.9 -2116.4  
1426 9.3 61448.5 -2152.0  
1427 9.4 61456.8 -2127.3  
1428 9.0 61459.9 -2115.0  
1429 9.5 61519.1 -2102.8  
1430 8.9 61519.2 -2127.0

1431 9.9 61549.2 -2153.1  
1432 9.4 61619.8 -2103.4  
1433 9.5 61627.0 -2121.9  
1434 9.4 61629.3 -2137.2  
1435 9.8 61635.0 -2135.4  
1436 9.3 61636.8 -2101.7  
1437 9.8 61652.2 -2139.6  
1438 8.5 61716.4 -2109.6  
1439 10.1 61738.8 -2145.1  
1440 9.6 61739.3 -2149.7

1441 9.1 61740.5 -2132.0  
1442 9.5 61758.5 -2156.5  
1443 9.1 61805.4 -2110.5  
1444 9.2 61818.2 -2154.0  
1445 9.5 61822.5 -2124.2  
1446 9.5 61824.4 -2114.6  
1447 9.2 61835.2 -2105.0  
1448 8.2 61854.4 -2153.1  
1449 9.8 61906.7 -2115.5  
1450 9.8 61914.3 -2124.4

1451 9.1 61925.6 -2115.5  
1452 9.5 61925.9 -2111.5  
1453 9.0 61939.5 -2123.1  
1454 9.5 61950.9 -2113.8  
1455 8.5 61951.3 -2128.0  
1456 9.7 61953.3 -2131.5  
1457 9.4 61956.9 -2134.2  
1458 10.1 62004.0 -2142.0  
1459 9.9 62005.4 -2146.9  
1460 9.2 62012.5 -2149.5

1461 9.4 62019.4 -2116.2  
1462 9.2 62040.4 -2150.3  
1463 8.0 62059.0 -2128.2  
1464 9.5 62101.0 -2108.5  
1465 9.2 62107.5 -2127.0  
1466 9.2 62115.5 -2123.2  
1467 9.7 62119.8 -2150.8  
1468 9.7 62121.0 -2155.1  
1469 10.1 62148.3 -2109.7  
1470 8.2 62153.4 -2142.2

1471 9.4 62155.8 -2105.6  
1472 9.4 62159.4 -2107.8  
1473 8.0 62204.5 -2155.0  
1474 9.8 62214.7 -2155.3  
1475 9.1 62243.9 -2122.9  
1476 9.5 62246.3 -2143.4  
1477 9.8 62250.8 -2107.0  
1478 10.1 62325.3 -2114.5  
1479 9.0 62329.0 -2137.8  
1480 9.8 62334.9 -2118.3

-21 1570 6h37m

1481 9.5 62337.8 -2115.1  
1482 10.1 62344.6 -2157.1  
1483 9.0 62347.1 -2125.2  
1484 9.7 62350.2 -2156.2  
1485 9.5 62352.7 -2101.1  
1486 9.8 62430.6 -2124.9  
1487 9.5 62441.4 -2119.9  
1488 9.6 62446.5 -2120.7  
1489 9.7 62456.9 -2147.5  
1490 9.7 62501.8 -2159.8

1491 6.8 62519.6 -2118.2  
1492 8.3 62520.2 -2156.3  
1493 9.7 62609.7 -2145.3  
1494 9.5 62613.6 -2109.1  
1495 9.1 62614.9 -2113.5  
1496 10.1 62637.4 -2126.6  
1497 10.1 62643.0 -2106.9  
1498 9.3 62727.7 -2143.7  
1499 9.8 62745.9 -2131.0  
1500 9.2 62750.7 -2152.5

1501 10.1 62752.7 -2131.0  
1502 7.9 62756.2 -2125.8  
1503 9.9 62758.6 -2121.4  
1504 9.8 62819.5 -2106.5  
1505 9.1 62837.2 -2101.4  
1506 9.0 62837.6 -2114.3  
1507 9.5 62848.7 -2150.0  
1508 8.7 62850.8 -2152.9  
1509 8.7 62856.2 -2117.7  
1510 9.5 62904.9 -2126.0

1511 9.7 62905.8 -2114.6  
1512 9.4 62909.1 -2110.9  
1513 9.4 62916.0 -2101.4  
1514 6.9 62922.4 -2159.4  
1515 10.1 62937.3 -2151.0  
1516 9.9 62944.4 -2140.0  
1517 9.7 62944.8 -2125.1  
1518 9.8 63001.0 -2125.4  
1519 9.4 63001.4 -2134.8  
1520 9.7 63002.4 -2107.1

1521 9.0 63006.0 -2110.5  
1522 9.4 63031.2 -2112.3  
1523 9.3 63035.1 -2106.3  
1524 9.0 63042.1 -2116.2  
1525 9.8 63043.7 -2121.8  
1526 9.5 63057.4 -2108.8  
1527 9.0 63120.8 -2150.2  
1528 8.9 63141.0 -2139.1  
1529 9.2 63147.6 -2115.2  
1530 9.8 63156.9 -2106.8

1531 9.3 63158.2 -2118.6  
1532 9.8 63201.1 -2158.9  
1533 9.2 63216.0 -2134.8  
1534 9.0 63223.5 -2143.2  
1535 9.0 63239.6 -2110.3  
1536 9.5 63243.8 -2158.7  
1537 9.9 63248.6 -2112.8  
1538 8.4 63319.0 -2139.5  
1539 9.8 63326.7 -2120.5  
1540 9.0 63329.6 -2112.3

1541 9.4 63334.7 -2126.1  
1542 10.1 63343.5 -2143.0  
1543 8.8 63345.3 -2128.4  
1544 10.1 63347.5 -2141.9  
1545 9.5 63353.1 -2108.9  
1546 9.5 63403.6 -2152.5  
1547 7.5 63414.1 -2115.7  
1548 10.1 63427.5 -2152.0  
1549 9.8 63444.9 -2102.3  
1550 9.3 63450.8 -2100.2

1551 9.4 63452.7 -2112.0  
1552 9.6 63459.8 -2131.9  
1553 9.0 63508.9 -2104.2  
1554 8.8 63516.7 -2137.0  
1555 9.2 63519.4 -2140.7  
1556 7.8 63519.9 -2158.1  
1557 9.5 63554.4 -2150.2  
1558 9.4 63557.5 -2109.1  
1559 9.8 63614.2 -2106.4  
1560 9.1 63617.7 -2104.0

1561 9.8 63623.4 -2138.2  
1562 9.7 63637.3 -2137.1  
1563 9.4 63637.4 -2147.2  
1564 10.1 63658.1 -2124.5  
1565 7.4 63705.5 -2143.4  
1566 8.1 63709.4 -2135.6  
1567 9.5 63711.6 -2143.9  
1568 9.5 63734.3 -2128.4  
1569 10.1 63738.8 -2143.0  
1570 9.5 63740.6 -2126.8



-21 1571 6h37m

1571 9.5 63752.9 -2101.6  
1572 9.0 63816.5 -2108.6  
1573 9.1 63822.3 -2104.7  
1574 9.0 63823.5 -2107.9  
1575 9.7 63834.2 -2158.5  
1576 9.4 63836.0 -2112.4  
1577 10. 63845.6 -2156.7  
1578 9.4 63846.6 -2133.5  
1579 9.3 63942.4 -2134.0  
1580 9.4 63945.0 -2142.8

1581 9.5 63948.1 -2120.4  
1582 9.3 63951.4 -2151.7  
1583 9.1 63954.9 -2144.1  
1584 10. 64009.8 -2158.5  
1585 9.3 64033.8 -2153.8  
1586 9.5 64036.9 -2106.2  
1587 9.8 64056.6 -2153.1  
1588 9.3 64057.2 -2113.4  
1589 9.3 64057.7 -2130.9  
1590 9.1 64059.9 -2130.7

1591 9.3 64121.5 -2120.1  
1592 9.7 64128.8 -2144.1  
1593 9.2 64140.2 -2155.6  
1594 9.3 64143.6 -2121.4  
1595 9.3 64145.0 -2118.9  
1596 9.4 64147.5 -2110.4  
1597 9.1 64151.9 -2123.7  
1598 8.3 64206.4 -2145.0  
1599 9.4 64208.0 -2126.1  
1600 9.8 64213.4 -2106.9

1601 9.2 64238.2 -2146.8  
1602 9.7 64242.7 -2144.5  
1603 9.6 64244.7 -2161.1  
1604 9.5 64256.4 -2133.8  
1605 9.7 64305.9 -2133.9  
1606 9.8 64309.6 -2131.2  
1607 9.2 64311.5 -2152.2  
1608 9.7 64322.8 -2151.2  
1609 8.4 64323.3 -2101.0  
1610 9.5 64353.8 -2105.0

1611 9.7 64359.0 -2143.0  
1612 9.7 64359.6 -2145.0  
1613 9.7 64401.0 -2143.2  
1614 9.5 64426.5 -2111.7  
1615 9.5 64428.4 -2131.2  
1616 9.5 64433.0 -2155.4  
1617 9.1 64448.0 -2144.3  
1618 9.8 64455.1 -2123.8  
1619 9.4 64458.8 -2135.4  
1620 9.8 64520.2 -2115.2

1621 9.0 64521.7 -2146.5  
1622 9.9 64535.1 -2156.0  
1623 9.2 64545.5 -2116.8  
1624 9.5 64548.9 -2142.7  
1625 9.8 64555.2 -2147.1  
1626 9.9 64608.4 -2108.9  
1627 10. 64612.5 -2154.5  
1628 9.5 64620.9 -2135.7  
1629 9.4 64621.1 -2146.2  
1630 7.8 64628.0 -2100.6

1631 9.7 64636.0 -2123.9  
1632 9.5 64643.4 -2111.2  
1633 8.5 64648.2 -2139.7  
1634 9.5 64652.8 -2106.7  
1635 9.8 64712.5 -2129.3  
1636 8.6 64719.2 -2152.8  
1637 9.6 64730.9 -2127.4  
1638 9.2 64730.9 -2157.0  
1639 9.8 64732.0 -2118.5  
1640 8.0 64739.9 -2142.4

1641 9.0 64756.5 -2119.0  
1642 9.4 64800.0 -2124.9  
1643 9.8 64816.2 -2103.4  
1644 9.8 64826.9 -2150.4  
1645 8.7 64835.1 -2141.4  
1646 9.5 64838.1 -2127.7  
1647 9.5 64843.0 -2120.8  
1648 9.2 64844.5 -2159.6  
1649 9.8 64845.7 -2115.1  
1650 8.7 64901.4 -2141.6

1651 9.8 64904.9 -2111.4  
1652 9.5 64906.5 -2104.7  
1653 9.8 64907.8 -2139.9  
1654 9.8 64911.0 -2119.6  
1655 7.2 64923.5 -2151.1  
1656 9.4 64938.8 -2132.4  
1657 9.8 64946.3 -2105.0  
1658 9.0 64952.5 -2119.2  
1659 9.3 65008.1 -2131.0  
1660 9.8 65017.9 -2110.4

1661 9.5 65028.3 -2107.9  
1662 9.5 65033.7 -2104.5  
1663 9.7 65045.1 -2131.7  
1664 9.7 65046.2 -2121.8  
1665 9.2 65052.8 -2101.9  
1666 9.5 65059.0 -2147.0  
1667 9.8 65100.9 -2110.4  
1668 9.6 65105.1 -2100.4  
1669 9.7 65107.7 -2100.0  
1670 9.3 65110.1 -2133.6

1671 9.5 65110.4 -2145.8  
1672 9.4 65112.8 -2133.8  
1673 9.9 65116.8 -2150.1  
1674 9.7 65132.8 -2108.0  
1675 9.1 65141.6 -2144.5  
1676 9.7 65144.1 -2108.9  
1677 9.5 65144.7 -2146.6  
1678 9.3 65148.6 -2111.9  
1679 9.0 65151.5 -2120.4  
1680 8.7 65157.9 -2140.6

1681 9.7 65201.7 -2132.9  
1682 9.7 65204.8 -2132.6  
1683 9.2 65216.5 -2151.0  
1684 10. 65258.7 -2129.9  
1685 9.0 65303.1 -2111.2  
1686 9.0 65303.3 -2123.5  
1687 9.5 65306.9 -2111.6  
1688 9.8 65324.6 -2143.3  
1689 6.7 65328.0 -2124.2  
1690 9.5 65343.2 -2104.5

1691 9.5 65344.1 -2108.3  
1692 9.8 65345.7 -2147.4  
1693 9.2 65353.6 -2136.6  
1694 9.3 65357.8 -2104.3  
1695 6.7 65409.4 -2155.1  
1696 9.7 65410.5 -2152.6  
1697 9.8 65422.6 -2130.5  
1698 9.4 65429.1 -2129.1  
1699 9.8 65431.6 -2108.2  
1700 10. 65438.3 -2101.3

1701 8.1 65454.2 -2145.6  
1702 9.0 65502.7 -2106.0  
1703 9.6 65513.8 -2132.4  
1704 9.8 65546.6 -2142.7  
1705 9.8 65546.8 -2137.7  
1706 8.4 65547.3 -2109.1  
1707 10. 65550.6 -2147.0  
1708 10. 65602.9 -2116.8  
1709 9.7 65603.0 -2156.7  
1710 8.6 65612.9 -2131.6

1711 9.1 65613.3 -2137.4  
1712 9.4 65614.7 -2146.8  
1713 8.2 65629.3 -2149.2  
1714 9.1 65630.0 -2116.7  
1715 9.8 65633.7 -2100.8  
1716 9.2 65636.2 -2102.7  
1717 9.8 65652.0 -2154.4  
1718 8.7 65657.3 -2113.8  
1719 9.5 65702.1 -2100.4  
1720 9.8 65722.4 -2135.7

1721 8.2 65726.5 -2142.5  
1722 9.5 65730.4 -2130.9  
1723 9.5 65735.3 -2129.3  
1724 9.3 65735.5 -2125.8  
1725 9.3 65746.9 -2137.5  
1726 8.8 65749.7 -2133.7  
1727 7.5 65758.8 -2103.5  
1728 8.2 65800.8 -2113.3  
1729 9.5 65805.0 -2150.2  
1730 9.1 65806.8 -2115.4

1731 9.7 65816.7 -2132.2  
1732 6.3 65836.6 -2149.0  
1733 9.4 65837.6 -2154.5  
1734 9.5 65840.6 -2130.7  
1735 9.5 65846.4 -2144.1  
1736 9.5 65849.9 -2152.2  
1737 9.0 65850.9 -2123.6  
1738 7.3 65853.9 -2113.9  
1739 9.8 65857.4 -2120.8  
1740 9.9 65904.8 -2152.7

1741 9.5 65924.6 -2104.6  
1742 9.8 65934.7 -2101.4  
1743 9.5 65935.8 -2144.2  
1744 9.8 65939.3 -2115.5  
1745 9.5 65947.7 -2156.8  
1746 9.3 65953.9 -2119.6  
1747 9.8 70003.9 -2156.8  
1748 9.7 70007.4 -2145.2  
1749 8.2 70023.7 -2148.1  
1750 9.1 70026.7 -2154.2

1751 9.3 70027.1 -2113.0  
1752 9.0 70028.0 -2144.1  
1753 9.7 70030.0 -2159.8  
1754 9.0 70032.5 -2114.1  
1755 8.7 70034.5 -2120.2  
1756 10. 70038.9 -2157.5  
1757 9.5 70044.0 -2132.3  
1758 9.5 70051.2 -2157.1  
1759 9.2 70055.7 -2128.9  
1760 9.3 70102.3 -2155.6

1761 9.1 70103.2 -2158.7  
1762 9.4 70109.9 -2132.3  
1763 9.3 70111.4 -2101.7  
1764 9.8 70113.2 -2133.6  
1765 9.4 70132.6 -2150.8  
1766 9.8 70149.8 -2114.9  
1767 8.7 70154.7 -2107.1  
1768 8.8 70158.7 -2102.2  
1769 9.1 70210.1 -2116.2  
1770 8.5 70213.0 -2146.0

1771 9.8 70231.8 -2150.9  
1772 9.7 70243.0 -2124.3  
1773 9.5 70244.2 -2158.6  
1774 9.5 70248.4 -2102.5  
1775 9.5 70251.1 -2149.5  
1776 9.7 70256.6 -2143.1  
1777 10. 70257.6 -2152.7  
1778 9.5 70303.3 -2128.0  
1779 9.8 70311.5 -2113.3  
1780 9.7 70317.8 -2110.0

1781 8.8 70322.3 -2114.5  
1782 9.3 70336.3 -2153.9  
1783 9.3 70348.8 -2157.5  
1784 9.3 70412.0 -2150.3  
1785 9.4 70422.4 -2116.0  
1786 9.8 70434.4 -2119.8  
1787 9.6 70435.5 -2159.8  
1788 8.7 70451.7 -2110.0  
1789 9.2 70459.0 -2153.4  
1790 9.2 70508.4 -2134.1

1791 7.1 70509.0 -2134.0  
1792 9.1 70511.0 -2116.3  
1793 9.8 70515.7 -2120.0  
1794 9.2 70520.8 -2127.5  
1795 9.8 70526.6 -2154.2  
1796 9.5 70533.0 -2107.9  
1797 9.8 70534.1 -2158.9  
1798 9.7 70541.5 -2108.3  
1799 9.5 70542.2 -2138.9  
1800 9.5 70544.8 -2131.2

1801 8.7 70558.9 -2102.2  
1802 8.6 70605.4 -2155.4  
1803 9.4 70618.1 -2157.2  
1804 9.2 70619.9 -2149.4  
1805 8.6 70622.0 -2130.6  
1806 9.5 70639.7 -2107.4  
1807 9.1 70640.1 -2134.5  
1808 9.2 70655.4 -2155.5  
1809 9.5 70656.0 -2148.2  
1810 9.5 70656.8 -2130.1

1811 9.5 70700.7 -2149.6  
1812 9.1 70705.5 -2154.8  
1813 9.4 70706.0 -2143.3  
1814 9.1 70706.2 -2141.5  
1815 9.8 70707.6 -2125.9  
1816 8.5 70710.6 -2128.0  
1817 9.5 70712.7 -2123.0  
1818 9.0 70719.6 -2106.5  
1819 8.7 70728.9 -2112.7  
1820 9.5 70747.3 -2154.0

1821 9.8 70751.6 -2147.2  
1822 9.7 70752.4 -2124.7  
1823 9.2 70752.9 -2143.9  
1824 9.5 70753.2 -2155.5  
1825 9.1 70812.7 -2143.4  
1826 9.5 70815.7 -2134.1  
1827 9.0 70821.1 -2149.6  
1828 9.3 70825.6 -2104.7  
1829 9.8 70828.8 -2152.2  
1830 9.8 70845.2 -2141.1

1831 7.8 70948.1 -2138.0  
1832 9.5 70851.2 -2141.1  
1833 10. 70854.8 -2100.3  
1834 9.1 70901.9 -2134.3  
1835 8.7 70907.2 -2143.1  
1836 9.8 70924.5 -2108.9  
1837 10. 70933.6 -2153.4  
1838 8.7 70938.2 -2122.7  
1839 9.4 70938.2 -2141.8  
1840 8.2 70942.8 -2101.8

1841 9.3 70944.6 -2140.0  
1842 10. 70953.0 -2110.2  
1843 9.8 70954.4 -2122.3  
1844 9.0 71003.5 -2110.2  
1845 9.1 71003.6 -2152.5  
1846 9.8 71011.7 -2145.6  
1847 9.2 71021.7 -2135.7  
1848 9.4 71026.2 -2140.3  
1849 9.5 71036.8 -2114.6  
1850 9.7 71043.3 -2156.9

1851 9.8 71109.2 -2153.9  
1852 9.5 71116.5 -2130.0  
1853 9.5 71117.4 -2105.8  
1854 8.9 71118.7 -2110.8  
1855 8.7 71127.9 -2125.8  
1856 8.2 71145.6 -2105.6  
1857 8.8 71152.6 -2158.6  
1858 10. 71155.2 -2152.6  
1859 9.4 71200.1 -2148.5  
1860 9.5 71204.2 -2150.2

1861 9.8 71219.0 -2159.8  
1862 9.8 71221.6 -2118.8  
1863 9.8 71222.7 -2108.5  
1864 9.5 71240.2 -2140.2  
1865 9.8 71245.6 -2104.5  
1866 9.6 71247.5 -2118.5  
1867 9.0 71254.1 -2118.6  
1868 9.4 71255.0 -2100.6  
1869 9.1 71256.8 -2111.6  
1870 9.8 71300.1 -2141.2

1871 7.3 71308.2 -2146.8  
1872 9.8 71311.3 -2112.6  
1873 9.5 71313.8 -2124.2  
1874 8.7 71317.2 -2144.1  
1875 9.7 71323.1 -2136.0  
1876 9.5 71323.5 -2129.9  
1877 9.4 71326.0 -2134.0  
1878 9.3 71332.7 -2109.9  
1879 9.8 71347.1 -2109.2  
1880 9.0 71353.0 -2136.8

1881 9.5 71354.6 -2138.7  
1882 9.8 71357.5 -2157.5  
1883 9.4 71403.8 -2129.2  
1884 7.4 71411.3 -2149.1  
1885 9.7 71413.0 -2142.5  
1886 9.5 71429.8 -2117.6  
1887 9.4 71436.1 -2151.2  
1888 8.4 71438.7 -2118.1  
1889 9.7 71439.2 -2152.6  
1890 9.7 71440.6 -2100.7

1891 10. 71443.0 -2115.4  
1892 9.5 71456.4 -2124.3  
1893 9.6 71501.4 -2125.9  
1894 9.8 71506.1 -2142.0  
1895 9.8 71510.7 -2118.2  
1896 9.7 71522.4 -2127.7  
1897 9.8 71523.0 -2104.9  
1898 9.3 71610.4 -2151.1  
1899 9.4 71614.3 -2127.4  
1900 9.2 71620.9 -2100.5

1901 9.4 71623.9 -2100.9  
1902 9.2 71625.5 -2135.7  
1903 9.5 71631.6 -2105.0  
1904 9.8 71635.6 -2143.0  
1905 8.0 71635.9 -2112.6  
1906 9.8 71640.0 -2141.0  
1907 9.1 71640.7 -2116.0  
1908 9.4 71642.8 -2123.5  
1909 9.2 71705.9 -2107.0  
1910 9.8 71708.8 -2127.5

1911 10. 71709.7 -2136.9  
1912 8.2 71711.6 -2113.8  
1913 9.3 71724.6 -2107.5  
1914 9.5 71728.3 -2108.8  
1915 9.8 71740.1 -2111.1  
1916 9.3 71744.1 -2152.3  
1917 9.5 71750.0 -2124.0  
1918 8.7 71755.5 -2119.5  
1919 9.2 71755.8 -2134.3  
1920 9.3 71803.9 -2112.2

1921 9.7 71834.4 -2152.3  
1922 9.7 71837.0 -2102.3  
1923 9.2 71845.7 -2111.6  
1924 9.6 71905.2 -2110.1  
1925 7.0 71907.1 -2141.5  
1926 10. 71907.1 -2132.3  
1927 9.6 71914.0 -2157.4  
1928 9.0 71917.0 -2137.0  
1929 9.7 71919.1 -2102.2  
1930 9.8 71924.4 -2116.1



-21 1931 7h19m

-21 2290 8h02m

1931 9.7 71936.7 -2158.4  
1932 9.7 71948.7 -2128.2  
1933 9.7 71950.0 -2132.9  
1934 9.7 71951.1 -2145.3  
1935 9.6 71953.3 -2149.3  
1936 9.0 71956.7 -2155.6  
1937 9.2 72006.0 -2141.3  
1938 9.5 72009.7 -2116.8  
1939 9.0 72022.5 -2142.6  
1940 9.5 72029.0 -2151.2

2021 9.5 72911.5 -2116.3  
2022 9.7 72917.7 -2127.9  
2023 9.8 72918.3 -2143.8  
2024 8.7 72918.3 -2121.5  
2025 9.8 72924.4 -2114.9  
2026 8.7 72925.9 -2109.6  
2027 9.3 72935.2 -2140.7  
2028 9.5 72937.6 -2124.2  
2029 8.1 72949.0 -2158.4  
2030 6.7 72953.9 -2150.4

2111 9.1 73944.7 -2124.2  
2112 10. 74000.7 -2151.1  
2113 9.8 74002.0 -2104.2  
2114 9.0 74002.9 -2114.3  
2115 8.0 74009.6 -2111.4  
2116 9.1 74013.0 -2139.2  
2117 9.0 74021.5 -2106.2  
2118 9.4 74027.6 -2111.9  
2119 9.9 74109.5 -2117.8  
2120 9.8 74133.7 -2139.0

2201 9.7 75247.2 -2138.4  
2202 9.8 75247.5 -2134.6  
2203 8.0 75252.8 -2142.2  
2204 9.3 75311.3 -2141.1  
2205 8.8 75313.3 -2133.8  
2206 9.1 75314.2 -2131.6  
2207 9.8 75318.0 -2152.0  
2208 9.0 75319.0 -2129.7  
2209 9.5 75335.3 -2116.7  
2210 8.1 75337.8 -2152.9

1941 8.9 72032.0 -2155.7  
1942 9.3 72047.4 -2119.2  
1943 9.1 72047.7 -2131.6  
1944 9.7 72048.2 -2101.7  
1945 9.3 72111.7 -2120.7  
1946 10. 72115.2 -2129.6  
1947 9.8 72117.1 -2100.7  
1948 9.5 72122.3 -2153.4  
1949 9.0 72139.8 -2135.3  
1950 9.8 72140.6 -2152.1

2031 9.8 72956.6 -2123.7  
2032 8.0 72958.0 -2125.8  
2033 10. 73013.7 -2139.4  
2034 9.5 73017.4 -2152.9  
2035 10. 73018.1 -2122.3  
2036 10. 73023.9 -2103.4  
2037 10. 73040.4 -2148.5  
2038 9.6 73043.3 -2151.7  
2039 7.0 73044.3 -2104.3  
2040 9.3 73055.1 -2129.1

2121 9.8 74175.1 -2120.6  
2122 9.5 74137.4 -2107.4  
2123 9.7 74139.8 -2152.8  
2124 9.0 74140.1 -2100.1  
2125 8.5 74150.1 -2159.2  
2126 9.5 74152.4 -2106.0  
2127 9.1 74155.0 -2124.6  
2128 9.9 74155.2 -2154.7  
2129 9.4 74216.4 -2102.4  
2130 7.5 74219.5 -2138.9

2211 9.3 75347.2 -2112.8  
2212 10. 75347.8 -2139.4  
2213 9.3 75349.3 -2129.7  
2214 9.8 75353.4 -2148.5  
2215 9.4 75401.5 -2130.3  
2216 9.5 75422.2 -2107.5  
2217 9.3 75441.4 -2158.5  
2218 10. 75443.9 -2115.1  
2219 9.8 75444.3 -2119.6  
2220 7.7 75501.8 -2156.2

1951 9.8 72147.4 -2144.4  
1952 9.8 72148.2 -2141.3  
1953 10. 72155.4 -2104.4  
1954 9.5 72159.7 -2107.7  
1955 8.7 72223.4 -2140.0  
1956 7.8 72227.1 -2130.5  
1957 9.0 72249.2 -2105.6  
1958 9.5 72250.0 -2111.2  
1959 8.8 72257.0 -2132.0  
1960 8.2 72309.4 -2134.3

2041 9.0 73059.8 -2118.9  
2042 9.5 73122.1 -2125.2  
2043 9.4 73130.9 -2106.8  
2044 9.4 73138.4 -2147.8  
2045 10. 73148.7 -2148.7  
2046 9.5 73151.9 -2106.8  
2047 9.4 73154.1 -2134.3  
2048 9.5 73154.2 -2117.0  
2049 9.8 73159.9 -2144.0  
2050 9.1 73203.2 -2140.2

2131 9.5 74241.0 -2115.9  
2132 9.5 74249.2 -2129.2  
2133 9.1 74302.9 -2151.9  
2134 9.5 74306.0 -2116.1  
2135 9.5 74325.1 -2144.9  
2136 9.2 74333.7 -2126.4  
2137 9.7 74336.6 -2134.4  
2138 9.5 74342.1 -2103.5  
2139 9.7 74349.8 -2103.1  
2140 9.5 74359.4 -2107.5

2221 8.4 75504.9 -2156.0  
2222 9.5 75513.8 -2145.7  
2223 9.0 75524.7 -2114.3  
2224 9.2 75529.7 -2101.1  
2225 10. 75538.3 -2107.4  
2226 9.2 75538.5 -2121.6  
2227 9.8 75542.5 -2101.8  
2228 9.5 75546.5 -2159.4  
2229 9.5 75554.7 -2143.1  
2230 9.1 75602.0 -2144.9

1961 9.4 72312.7 -2125.5  
1962 8.4 72314.8 -2133.3  
1963 9.8 72315.1 -2153.4  
1964 9.4 72317.2 -2125.8  
1965 8.9 72318.6 -2153.4  
1966 10. 72319.7 -2146.8  
1967 9.7 72320.1 -2109.7  
1968 9.5 72333.0 -2154.2  
1969 9.5 72334.6 -2115.6  
1970 10. 72342.3 -2105.0

2051 8.9 73207.9 -2155.3  
2052 8.5 73210.5 -2130.0  
2053 9.4 73215.8 -2150.1  
2054 9.8 73216.2 -2131.5  
2055 9.2 73223.1 -2132.6  
2056 9.5 73231.0 -2120.8  
2057 9.4 73233.9 -2133.9  
2058 9.5 73235.4 -2110.6  
2059 9.0 73242.0 -2101.0  
2060 9.8 73312.2 -2133.8

2141 10. 74401.2 -2155.8  
2142 9.5 74401.3 -2117.5  
2143 9.8 74411.3 -2104.2  
2144 9.4 74421.8 -2134.4  
2145 7.7 74428.0 -2141.4  
2146 10. 74443.0 -2117.4  
2147 10. 74459.7 -2156.7  
2148 9.2 74502.4 -2108.9  
2149 9.7 74527.3 -2153.2  
2150 9.1 74536.5 -2120.7

2231 9.2 75602.1 -2117.2  
2232 9.3 75609.2 -2132.1  
2233 8.9 75610.0 -2148.4  
2234 9.4 75612.1 -2125.7  
2235 8.1 75618.4 -2151.8  
2236 9.5 75627.9 -2100.9  
2237 9.5 75630.6 -2137.1  
2238 9.5 75648.1 -2130.0  
2239 8.8 75653.5 -2136.4  
2240 9.8 75706.2 -2119.2

1971 9.8 72349.8 -2108.5  
1972 9.5 72353.7 -2121.9  
1973 9.3 72413.1 -2114.9  
1974 8.7 72415.8 -2116.2  
1975 9.8 72418.7 -2158.6  
1976 9.8 72421.5 -2107.6  
1977 8.9 72423.1 -2117.9  
1978 9.5 72424.8 -2130.9  
1979 8.2 72430.6 -2130.5  
1980 9.5 72445.0 -2112.8

2061 9.8 73324.3 -2147.8  
2062 10. 73324.9 -2152.2  
2063 9.4 73329.2 -2112.9  
2064 8.2 73335.6 -2151.6  
2065 9.5 73357.9 -2127.5  
2066 9.5 73359.6 -2129.1  
2067 9.8 73403.2 -2137.4  
2068 9.7 73406.7 -2138.3  
2069 7.3 73411.2 -2142.6  
2070 9.3 73412.2 -2156.7

2151 9.4 74543.5 -2120.4  
2152 9.4 74548.2 -2146.6  
2153 9.1 74555.2 -2126.6  
2154 10. 74609.1 -2125.8  
2155 8.7 74613.3 -2137.5  
2156 8.7 74620.8 -2102.2  
2157 10. 74626.4 -2148.5  
2158 9.5 74627.2 -2150.3  
2159 7.7 74629.6 -2151.4  
2160 9.4 74636.4 -2102.8

2241 9.5 75709.4 -2130.6  
2242 9.5 75712.4 -2130.4  
2243 9.3 75717.3 -2148.6  
2244 9.4 75719.5 -2120.0  
2245 7.6 75746.7 -2124.3  
2246 9.4 75756.8 -2136.9  
2247 9.2 75757.0 -2139.8  
2248 8.2 75800.4 -2100.1  
2249 9.7 75801.3 -2152.9  
2250 9.5 75810.3 -2149.0

1981 9.1 72446.7 -2157.2  
1982 9.1 72446.8 -2118.7  
1983 9.5 72451.2 -2121.3  
1984 9.0 72457.7 -2135.1  
1985 9.2 72507.1 -2120.5  
1986 8.7 72513.2 -2126.4  
1987 9.4 72514.6 -2130.8  
1988 8.3 72516.8 -2140.7  
1989 9.1 72532.3 -2150.0  
1990 9.2 72536.7 -2111.6

2071 9.3 73419.9 -2108.6  
2072 8.7 73426.5 -2136.3  
2073 9.4 73437.7 -2134.6  
2074 9.5 73452.7 -2118.7  
2075 9.3 73457.6 -2109.8  
2076 9.5 73501.2 -2131.5  
2077 6.8 73509.9 -2159.7  
2078 9.8 73522.7 -2121.7  
2079 8.6 73528.4 -2101.9  
2080 10. 73538.1 -2110.7

2161 9.3 74647.6 -2159.5  
2162 9.0 74700.5 -2151.8  
2163 9.7 74723.2 -2155.1  
2164 8.4 74727.1 -2132.7  
2165 9.5 74734.2 -2133.0  
2166 8.9 74744.4 -2139.3  
2167 9.5 74745.7 -2124.5  
2168 9.8 74803.9 -2121.1  
2169 9.5 74804.9 -2156.9  
2170 9.0 74807.3 -2137.8

2251 9.3 75845.0 -2159.2  
2252 9.0 75906.1 -2113.8  
2253 9.8 75906.3 -2129.2  
2254 10. 75911.9 -2158.0  
2255 8.5 75926.4 -2127.8  
2256 9.8 75936.9 -2100.0  
2257 9.8 75941.2 -2144.3  
2258 9.0 75942.1 -2128.8  
2259 9.8 75942.5 -2119.2  
2260 9.5 75943.7 -2116.3

1991 9.2 72540.6 -2154.2  
1992 9.8 72542.2 -2127.4  
1993 9.3 72548.8 -2107.2  
1994 9.8 72559.1 -2143.7  
1995 10. 72600.1 -2157.4  
1996 10. 72606.6 -2102.1  
1997 8.5 72622.7 -2137.1  
1998 9.6 72626.8 -2127.2  
1999 9.8 72630.6 -2124.7  
2000 8.5 72644.7 -2158.4

2081 9.5 73541.9 -2131.1  
2082 9.1 73546.1 -2104.9  
2083 9.6 73549.0 -2132.4  
2084 9.5 73551.5 -2156.0  
2085 9.4 73558.7 -2152.9  
2086 8.5 73611.3 -2135.7  
2087 9.8 73621.7 -2125.5  
2088 9.3 73629.2 -2149.8  
2089 10. 73630.4 -2102.2  
2090 9.0 73639.7 -2124.7

2171 9.5 74807.8 -2133.4  
2172 9.3 74814.6 -2131.8  
2173 9.8 74844.5 -2100.6  
2174 9.3 74900.9 -2141.3  
2175 9.5 74902.9 -2126.2  
2176 8.5 74906.3 -2138.6  
2177 9.1 74919.2 -2120.2  
2178 9.1 74921.0 -2133.9  
2179 9.4 74930.9 -2121.2  
2180 9.3 74936.2 -2158.8

2261 9.3 80006.9 -2154.5  
2262 8.2 80007.5 -2148.8  
2263 8.7 80007.8 -2137.1  
2264 9.1 80010.3 -2136.0  
2265 9.8 80013.0 -2154.4  
2266 9.0 80019.9 -2157.3  
2267 9.1 80024.6 -2115.5  
2268 8.2 80028.1 -2113.2  
2269 9.8 80033.2 -2110.7  
2270 9.0 80048.0 -2115.8

2001 9.0 72659.2 -2137.3  
2002 8.7 72703.6 -2158.7  
2003 9.3 72705.1 -2110.6  
2004 9.0 72715.3 -2119.7  
2005 9.8 72728.0 -2115.0  
2006 10. 72728.8 -2111.0  
2007 5.4 72750.2 -2159.0  
2008 9.6 72801.0 -2104.4  
2009 10. 72809.0 -2151.8  
2010 9.8 72814.6 -2183.0

2091 7.3 73640.8 -2138.6  
2092 9.3 73644.0 -2152.3  
2093 7.8 73705.1 -2157.7  
2094 8.5 73710.9 -2147.0  
2095 9.4 73717.8 -2116.3  
2096 8.2 73728.6 -2149.2  
2097 9.6 73737.1 -2142.2  
2098 9.4 73748.0 -2101.1  
2099 10. 73749.0 -2154.6  
2100 9.2 73753.0 -2101.3

2181 9.4 74936.8 -2101.7  
2182 9.5 74940.9 -2123.1  
2183 9.3 74946.3 -2134.8  
2184 9.5 74948.2 -2106.9  
2185 9.3 74958.4 -2122.3  
2186 9.8 75000.3 -2150.8  
2187 9.5 75007.9 -2122.5  
2188 9.5 75008.1 -2100.4  
2189 9.8 75030.7 -2129.0  
2190 9.6 75041.1 -2101.0

2271 10. 80051.3 -2149.1  
2272 9.5 80053.2 -2156.9  
2273 9.5 80056.8 -2113.8  
2274 9.5 80056.9 -2121.2  
2275 9.3 80057.1 -2100.1  
2276 8.7 80057.6 -2138.0  
2277 9.2 80101.0 -2137.4  
2278 9.1 80102.4 -2100.8  
2279 9.5 80113.6 -2124.3  
2280 9.3 80121.6 -2121.8

2011 9.5 72816.6 -2133.0  
2012 9.5 72826.9 -2147.8  
2013 9.8 72828.6 -2144.7  
2014 9.3 72829.3 -2156.4  
2015 9.8 72842.6 -2121.5  
2016 9.4 72845.3 -2153.8  
2017 9.8 72846.4 -2106.6  
2018 9.4 72901.0 -2153.7  
2019 9.8 72902.5 -2129.0  
2020 10. 72910.4 -2142.6

2101 9.8 77756.1 -2158.5  
2102 9.3 73805.2 -2124.1  
2103 9.0 73807.2 -2128.4  
2104 9.8 73812.5 -2109.3  
2105 9.8 73845.4 -2141.5  
2106 9.2 73849.9 -2106.7  
2107 8.2 73857.7 -2152.6  
2108 8.9 73910.5 -2158.3  
2109 9.4 73918.6 -2112.6  
2110 9.1 73936.1 -2144.5

2191 9.8 75122.5 -2151.4  
2192 9.1 75132.8 -2121.0  
2193 9.3 75144.7 -2101.5  
2194 9.2 75147.9 -2141.1  
2195 9.2 75148.7 -2142.0  
2196 9.2 75204.4 -2100.6  
2197 8.5 75214.7 -2105.7  
2198 9.6 75220.1 -2141.7  
2199 9.8 75237.7 -2135.0  
2200 9.3 75245.3 -2100.2

2281 9.3 80127.4 -2104.6  
2282 9.4 80129.5 -2138.2  
2283 9.5 80162.4 -2154.9  
2284 7.7 80163.2 -2143.0  
2285 9.5 80157.6 -2123.7  
2286 9.3 80157.4 -2105.9  
2287 9.4 80207.4 -2102.8  
2288 9.0 80212.5 -2158.9  
2289 9.5 80224.6 -2101.4  
2290 8.2 80231.1 -2116.6



-21 2291 8h02m

2291 9.8 80251.3 -2155.5  
2292 9.3 80252.1 -2119.0  
2293 7.5 80254.7 -2109.0  
2294 9.1 80208.6 -2116.1  
2295 9.3 80313.0 -2109.9  
2296 9.9 80315.7 -2152.7  
2297 8.9 80325.4 -2121.2  
2298 9.5 80326.4 -2154.6  
2299 9.4 80331.8 -2124.4  
2300 9.8 80335.1 -2101.4

2301 9.4 80349.5 -2157.0  
2302 9.5 80353.0 -2133.9  
2303 9.5 80410.4 -2102.3  
2304 9.1 80415.0 -2132.5  
2305 9.1 80416.6 -2126.2  
2306 9.8 80426.8 -2150.7  
2307 9.7 80437.2 -2124.5  
2308 9.5 80503.1 -2103.6  
2309 8.7 80527.0 -2119.2  
2310 10. 80527.0 -2156.3

2311 9.8 80527.2 -2158.3  
2312 9.4 80534.3 -2151.9  
2313 8.7 80542.3 -2133.9  
2314 9.1 80543.9 -2109.1  
2315 9.5 80549.1 -2147.4  
2316 9.2 80551.1 -2120.3  
2317 10. 80554.7 -2155.2  
2318 9.3 80608.8 -2126.7  
2319 9.0 80617.5 -2125.7  
2320 9.4 80620.9 -2125.4

2321 9.4 80622.2 -2107.5  
2322 9.4 80622.8 -2117.9  
2323 9.1 80626.8 -2111.3  
2324 9.8 80635.9 -2137.4  
2325 10. 80643.8 -2108.0  
2326 9.5 80645.1 -2112.0  
2327 8.6 80654.9 -2157.6  
2328 9.5 80659.1 -2109.3  
2329 8.8 80702.3 -2107.5  
2330 9.7 80702.3 -2155.2

2331 9.4 80712.5 -2131.0  
2332 9.5 80718.2 -2143.5  
2333 8.4 80724.7 -2154.2  
2334 9.1 80731.4 -2158.1  
2335 9.8 80744.0 -2141.9  
2336 9.5 80757.7 -2156.4  
2337 9.0 80816.6 -2152.7  
2338 9.3 80837.3 -2102.8  
2339 8.2 80858.4 -2113.6  
2340 9.7 80861.0 -2158.6

2341 9.1 80841.9 -2117.6  
2342 9.4 80849.8 -2110.3  
2343 9.7 80856.2 -2129.2  
2344 9.4 80856.9 -2141.2  
2345 9.8 80919.7 -2106.4  
2346 10. 80927.8 -2129.5  
2347 9.4 80935.0 -2142.0  
2348 8.7 80945.9 -2103.6  
2349 10. 80956.0 -2139.4  
2350 9.8 80959.0 -2137.5

2351 9.6 81001.5 -2108.4  
2352 9.8 81005.0 -2143.1  
2353 9.5 81009.6 -2147.1  
2354 9.4 81015.2 -2133.2  
2355 9.8 81018.0 -2103.1  
2356 9.8 81019.0 -2154.8  
2357 9.2 81020.1 -2129.3  
2358 6.8 81023.2 -2126.0  
2359 9.5 81038.5 -2157.9  
2360 8.7 81039.3 -2149.0

2361 9.1 81041.2 -2110.4  
2362 8.7 8110.8 -2123.1  
2363 9.6 8111.6 -2157.3  
2364 10. 8112.2 -2148.8  
2365 9.6 81125.1 -2132.7  
2366 8.7 81128.4 -2120.9  
2367 9.8 81146.0 -2107.4  
2368 9.5 81201.7 -2159.5  
2369 9.1 81211.3 -2129.4  
2370 8.7 81212.7 -2137.1

2371 8.5 81222.9 -2107.4  
2372 8.5 81226.5 -2140.9  
2373 9.5 81226.7 -2129.3  
2374 9.1 81230.8 -2144.2  
2375 9.1 81240.4 -2147.4  
2376 8.8 81252.8 -2134.4  
2377 9.4 81257.1 -2152.9  
2378 9.6 81308.6 -2103.7  
2379 9.5 81311.9 -2106.1  
2380 9.0 81314.1 -2153.9

2381 9.1 81314.7 -2148.1  
2382 9.7 81327.5 -2152.4  
2383 9.8 81329.1 -2119.5  
2384 9.7 81355.9 -2125.1  
2385 9.4 81357.5 -2132.1  
2386 9.8 81402.8 -2102.0  
2387 9.3 81405.9 -2147.5  
2388 10. 81406.5 -2121.0  
2389 8.3 81409.1 -2117.2  
2390 9.5 81425.0 -2126.3

2391 9.8 81427.4 -2108.7  
2392 8.2 81434.2 -2159.3  
2393 9.6 81439.3 -2126.6  
2394 9.8 81453.0 -2129.5  
2395 9.5 81515.1 -2148.4  
2396 9.1 81519.2 -2139.4  
2397 9.5 81520.2 -2107.4  
2398 9.5 81537.1 -2120.2  
2399 9.4 81542.7 -2135.2  
2400 9.5 81547.9 -2112.5

2401 9.4 81553.6 -2150.3  
2402 9.2 81558.2 -2151.2  
2403 9.7 81611.0 -2159.5  
2404 9.4 81611.4 -2108.8  
2405 8.4 81615.2 -2140.4  
2406 9.2 81615.7 -2105.0  
2407 8.8 81618.1 -2140.2  
2408 9.5 81621.9 -2126.2  
2409 9.0 81635.1 -2107.3  
2410 8.7 81651.8 -2107.1

2411 9.8 81655.0 -2108.4  
2412 9.7 81711.0 -2118.7  
2413 9.1 81720.5 -2109.5  
2414 9.3 81720.8 -2103.5  
2415 9.4 81732.9 -2108.8  
2416 9.8 81740.1 -2133.4  
2417 8.2 81757.0 -2154.8  
2418 9.8 81802.7 -2118.7  
2419 9.4 81817.6 -2154.8  
2420 9.4 81822.5 -2133.1

2421 9.7 81828.8 -2127.3  
2422 9.7 81829.8 -2153.0  
2423 8.5 81840.9 -2109.7  
2424 9.1 81850.1 -2128.0  
2425 9.0 81854.7 -2147.2  
2426 7.0 81856.6 -2139.8  
2427 8.5 81900.7 -2106.0  
2428 9.5 81920.2 -2101.1  
2429 10. 81923.5 -2139.3  
2430 9.0 81927.6 -2154.2

2431 9.8 81930.7 -2105.3  
2432 9.2 81934.0 -2153.8  
2433 9.5 81937.4 -2158.1  
2434 9.4 81937.9 -2148.9  
2435 9.5 81947.1 -2102.9  
2436 9.7 81956.4 -2123.0  
2437 9.8 82004.6 -2102.5  
2438 8.5 82007.7 -2105.4  
2439 9.0 82029.8 -2109.0  
2440 9.5 82030.4 -2154.3

2441 9.3 82036.4 -2122.5  
2442 9.4 82036.4 -2116.0  
2443 9.0 82045.7 -2158.3  
2444 9.0 82100.5 -2141.7  
2445 8.5 82103.2 -2122.4  
2446 9.1 82108.6 -2156.2  
2447 10. 82121.9 -2154.1  
2448 9.6 82140.7 -2122.5  
2449 9.0 82150.7 -2126.5  
2450 9.5 82151.6 -2108.3

2451 8.7 82151.9 -2150.7  
2452 9.5 82203.2 -2117.8  
2453 9.8 82206.7 -2118.9  
2454 9.4 82229.3 -2136.6  
2455 9.4 82235.3 -2135.5  
2456 9.0 82240.4 -2151.1  
2457 9.4 82252.7 -2113.0  
2458 9.5 82254.4 -2138.9  
2459 8.9 82258.5 -2118.4  
2460 9.8 82259.7 -2159.3

2461 9.7 82375.6 -2124.0  
2462 9.2 82400.1 -2157.9  
2463 8.8 82409.2 -2155.1  
2464 9.7 82414.7 -2124.2  
2465 9.7 82421.5 -2159.0  
2466 9.7 82423.1 -2150.9  
2467 9.5 82455.7 -2109.4  
2468 10. 82525.1 -2127.4  
2469 10. 82525.6 -2124.7  
2470 9.4 82528.4 -2138.6

2471 8.9 82540.0 -2106.0  
2472 9.6 82550.3 -2149.2  
2473 9.8 82556.9 -2133.9  
2474 9.2 82631.5 -2151.6  
2475 9.8 82634.2 -2103.6  
2476 8.5 82634.6 -2115.5  
2477 8.0 82646.8 -2149.9  
2478 8.4 82652.2 -2156.0  
2479 9.4 82653.5 -2124.6  
2480 9.5 82704.1 -2124.9

2481 9.6 82707.1 -2126.1  
2482 9.4 82711.1 -2132.9  
2483 9.4 82719.5 -2130.0  
2484 10. 82720.4 -2123.0  
2485 9.4 82727.3 -2129.5  
2486 7.9 82731.1 -2132.3  
2487 9.0 82739.3 -2101.5  
2488 10. 82744.4 -2157.5  
2489 9.5 82751.6 -2114.8  
2490 10. 82814.2 -2152.0

2491 9.8 82817.6 -2120.6  
2492 10. 82822.2 -2121.8  
2493 9.7 82833.2 -2146.8  
2494 9.0 82833.9 -2104.1  
2495 9.0 82837.4 -2143.8  
2496 9.5 82839.9 -2118.7  
2497 9.8 82840.5 -2108.4  
2498 6.8 82841.5 -2145.0  
2499 9.1 82844.1 -2152.7  
2500 9.5 82845.4 -2131.0

2501 9.4 82851.7 -2122.4  
2502 9.8 82852.6 -2141.3  
2503 9.7 82907.0 -2117.1  
2504 9.6 82909.3 -2129.0  
2505 9.6 82913.3 -2129.5  
2506 9.6 82925.0 -2125.6  
2507 9.0 82925.8 -2129.6  
2508 9.6 82930.5 -2125.7  
2509 9.3 82936.2 -2119.1  
2510 10. 82938.2 -2107.9

2511 9.7 82938.6 -2144.0  
2512 9.6 82940.9 -2159.2  
2513 8.9 82951.5 -2128.7  
2514 9.1 82951.6 -2140.4  
2515 10. 82955.8 -2130.4  
2516 9.1 83000.1 -2128.8  
2517 9.6 83004.3 -2158.8  
2518 9.6 83030.7 -2104.2  
2519 9.6 83049.3 -2138.8  
2520 9.5 83050.3 -2152.3

2521 9.8 83051.8 -2156.4  
2522 9.8 83058.0 -2148.6  
2523 9.0 83104.1 -2101.4  
2524 10. 83113.3 -2135.1  
2525 9.5 83115.5 -2137.4  
2526 9.8 83122.4 -2121.2  
2527 9.4 83142.3 -2147.6  
2528 9.0 83150.2 -2126.5  
2529 8.7 83150.4 -2160.0  
2530 9.8 83153.9 -2150.4

2531 10. 83204.0 -2101.4  
2532 9.2 83209.8 -2114.3  
2533 9.8 83211.0 -2139.6  
2534 9.2 83219.8 -2114.5  
2535 8.1 83235.8 -2134.6  
2536 9.4 83243.8 -2117.0  
2537 9.0 83256.9 -2156.6  
2538 8.1 83262.1 -2122.0  
2539 9.5 83306.1 -2112.0  
2540 9.5 83316.4 -2156.1

2541 9.5 83319.3 -2141.2  
2542 9.5 83321.5 -2134.4  
2543 9.7 83345.6 -2136.1  
2544 9.8 83345.8 -2101.4  
2545 10. 83341.4 -2130.1  
2546 9.7 83441.7 -2107.0  
2547 9.8 83459.3 -2122.0  
2548 7.2 83509.8 -2140.5  
2549 9.5 83513.8 -2142.0  
2550 9.3 83519.0 -2126.1

2551 9.8 83519.4 -2156.0  
2552 7.7 83528.4 -2130.5  
2553 9.3 83540.7 -2154.1  
2554 9.8 83550.0 -2117.4  
2555 8.9 83557.6 -2159.2  
2556 9.7 83606.8 -2120.6  
2557 7.7 83608.7 -2151.9  
2558 8.3 83609.0 -2103.6  
2559 9.7 83623.7 -2134.6  
2560 8.8 83636.1 -2142.8

-21 2650 8h50m

2561 9.1 83643.1 -2118.1  
2562 8.3 83649.3 -2128.7  
2563 10. 83703.5 -2146.1  
2564 9.9 83704.6 -2138.6  
2565 9.6 83715.4 -2139.4  
2566 9.5 83728.9 -2103.0  
2567 9.0 83733.3 -2107.8  
2568 9.0 83744.9 -2105.3  
2569 8.0 83752.0 -2107.1  
2570 8.7 83801.3 -2110.5

2571 9.6 83806.5 -2159.3  
2572 9.7 83812.7 -2142.1  
2573 7.8 83821.7 -2146.4  
2574 9.4 83822.3 -2126.6  
2575 9.4 83829.9 -2127.5  
2576 9.8 83846.7 -2100.4  
2577 8.6 83910.0 -2144.0  
2578 9.4 83923.2 -2135.9  
2579 9.4 83931.2 -2155.9  
2580 9.7 83946.0 -2143.4

2581 9.4 83959.9 -2149.4  
2582 9.0 84002.2 -2121.1  
2583 9.7 84005.2 -2138.6  
2584 9.7 84010.2 -2116.8  
2585 9.5 84013.4 -2122.4  
2586 9.8 84025.6 -2116.4  
2587 8.5 84029.5 -2107.9  
2588 9.0 84032.9 -2150.2  
2589 9.1 84047.1 -2108.4  
2590 10. 84047.3 -2158.2

2591 9.0 84111.8 -2102.5  
2592 8.9 84117.6 -2122.0  
2593 9.7 84122.8 -2152.7  
2594 9.8 84131.5 -2154.4  
2595 9.0 84136.1 -2144.0  
2596 8.8 84138.8 -2152.0  
2597 8.5 84155.3 -2121.4  
2598 9.5 84171.5 -2156.0  
2599 9.7 84229.1 -2158.2  
2600 9.6 84240.6 -2157.2

2601 9.4 84249.4 -2120.6  
2602 9.3 84320.1 -2122.6  
2603 9.0 84339.0 -2124.2  
2604 9.5 84351.4 -2117.0  
2605 9.0 84353.2 -2121.5  
2606 9.3 84356.9 -2130.2  
2607 9.2 84413.4 -2155.0  
2608 8.7 84413.5 -2143.1  
2609 9.0 84422.0 -2138.8  
2610 7.7 84436.6 -2149.1

2611 9.4 84437.9 -2103.0  
2612 9.5 84501.2 -2103.7  
2613 9.8 84501.6 -2132.4  
2614 9.2 84527.1 -2126.3  
2615 8.7 84529.9 -2142.8  
2616 9.7 84536.2 -2103.6  
2617 9.0 84536.6 -2122.1  
2618 9.5 84547.8 -2131.0  
2619 9.0 84549.9 -2144.2  
2620 8.8 84612.7 -2110.8

2621 9.8 84625.8 -2123.0  
2622 9.7 84626.9 -2144.6  
2623 7.7 84638.5 -2134.1  
2624 9.5 84703.4 -2156.3  
2625 9.2 84707.6 -2121.1  
2626 9.4 84709.5 -2101.0  
2627 9.5 84734.2 -2120.8  
2628 9.5 84736.0 -2157.2  
2629 9.5 84747.6 -2156.5  
2630 8.8 84747.8 -2116.1

2631 10. 84804.0 -2101.0  
2632 9.5 84816.3 -2119.0  
2633 9.4 84820.2 -2148.4  
2634 9.1 84824.4 -2152.2  
2635 9.4 84831.2 -2138.1  
2636 9.5 84841.3 -2137.6  
2637 8.3 84854.1 -2111.5  
2638 9.8 84905.3 -2143.5  
2639 8.5 84919.7 -2102.1  
2640 8.5 84920.2 -2116.0

2641 9.5 84921.8 -2133.8  
2642 9.8 84927.2 -2155.7  
2643 9.3 84925.9 -2125.8  
2644 9.5 84948.2 -2115.8  
2645 9.4 85004.5 -2107.2  
2646 9.5 85006.2 -2136.5  
2647 9.5 85018.4 -2100.8  
2648 8.1 85022.0 -2157.9  
2649 9.3 85023.9 -2151.0  
2650 9.7 85043.3 -2136.3



-21 2651 8h51m

2651 9.4 85100.4 -2120.2  
2652 9.8 85128.6 -2115.8  
2653 9.2 85132.5 -2111.3  
2654 10. 85155.2 -2143.5  
2655 9.0 85203.3 -2106.3  
2656 9.7 85208.7 -2159.7  
2657 9.8 85227.1 -2117.7  
2658 9.0 85239.7 -2128.3  
2659 9.1 85240.6 -2122.1  
2660 10. 85242.9 -2125.7

2661 8.4 85314.2 -2134.4  
2662 9.3 85328.9 -2104.0  
2663 9.5 85336.8 -2130.8  
2664 8.2 85356.0 -2155.1  
2665 9.6 85400.5 -2158.4  
2666 9.6 85402.7 -2150.9  
2667 9.5 85409.4 -2107.5  
2668 8.3 85432.2 -2126.1  
2669 8.3 85450.9 -2150.0  
2670 8.7 85453.5 -2130.4

2671 9.0 85524.9 -2158.1  
2672 9.8 85538.0 -2114.7  
2673 9.5 85544.5 -2117.9  
2674 9.1 85552.6 -2123.2  
2675 9.3 85617.3 -2151.2  
2676 9.0 85635.3 -2100.0  
2677 9.4 85652.5 -2120.1  
2678 8.5 85658.4 -2136.5  
2679 9.5 85726.4 -2137.7  
2680 9.8 85730.2 -2130.8

2681 8.5 85742.8 -2124.3  
2682 9.5 85743.4 -2148.9  
2683 9.1 85743.6 -2100.2  
2684 9.5 85800.1 -2132.1  
2685 9.4 85815.5 -2122.7  
2686 9.5 85823.4 -2148.6  
2687 8.9 85826.4 -2127.8  
2688 9.8 85915.5 -2136.4  
2689 9.8 85931.6 -2107.0  
2690 9.8 85940.2 -2134.6

2691 9.5 85947.0 -2149.1  
2692 8.1 85956.4 -2147.9  
2693 9.0 90003.7 -2119.8  
2694 9.1 90007.8 -2147.6  
2695 9.4 90008.9 -2145.5  
2696 9.3 90012.1 -2122.9  
2697 9.5 90013.6 -2140.5  
2698 9.4 90016.8 -2153.5  
2699 9.1 90034.2 -2156.1  
2700 9.9 90118.2 -2123.0

2701 8.7 90133.4 -2128.8  
2702 9.4 90159.5 -2108.3  
2703 9.4 90208.7 -2131.0  
2704 8.6 90211.2 -2123.5  
2705 9.0 90223.8 -2148.2  
2706 9.3 90232.5 -2112.1  
2707 9.8 90252.5 -2126.3  
2708 9.1 90306.3 -2143.0  
2709 9.6 90307.9 -2129.0  
2710 9.8 90312.9 -2126.9

2711 8.9 90314.9 -2106.8  
2712 9.8 90346.1 -2123.1  
2713 9.3 90400.6 -2150.9  
2714 9.3 90403.6 -2157.1  
2715 9.0 90420.5 -2108.8  
2716 9.2 90421.8 -2134.0  
2717 9.2 90423.8 -2128.2  
2718 9.5 90501.7 -2153.4  
2719 9.4 90503.9 -2149.5  
2720 9.0 90516.8 -2138.7

2721 9.4 90521.6 -2134.6  
2722 9.8 90531.6 -2157.0  
2723 9.5 90604.4 -2109.6  
2724 9.8 90613.9 -2111.2  
2725 9.0 90616.1 -2113.7  
2726 8.8 90616.5 -2156.1  
2727 9.8 90633.4 -2117.0  
2728 9.7 90640.2 -2131.7  
2729 9.7 90653.0 -2122.6  
2730 9.4 90708.3 -2107.4

2731 8.7 90722.2 -2128.7  
2732 9.8 90734.9 -2123.2  
2733 8.9 90735.5 -2110.7  
2734 9.4 90801.0 -2154.0  
2735 8.2 90818.1 -2141.1  
2736 9.8 90820.8 -2114.2  
2737 9.6 90825.1 -2132.1  
2738 9.7 90826.0 -2134.4  
2739 9.5 90839.3 -2111.4  
2740 9.7 90854.5 -2125.0

2741 9.2 90855.0 -2130.9  
2742 9.4 90911.0 -2127.0  
2743 9.4 90935.9 -2155.5  
2744 9.8 90955.2 -2111.0  
2745 7.3 91015.8 -2121.0  
2746 9.8 91023.6 -2158.3  
2747 9.8 91024.5 -2127.2  
2748 9.8 91024.9 -2148.7  
2749 9.0 91032.9 -2152.7  
2750 9.3 91107.0 -2144.7

2751 8.5 91111.2 -2109.7  
2752 9.1 91132.4 -2147.2  
2753 8.8 91132.8 -2122.2  
2754 9.7 91146.3 -2122.0  
2755 9.6 91232.8 -2123.9  
2756 7.5 91234.7 -2156.8  
2757 9.2 91237.5 -2101.8  
2758 9.1 91321.3 -2105.4  
2759 9.2 91328.8 -2156.9  
2760 9.5 91336.3 -2143.9

2761 9.8 91340.7 -2137.3  
2762 10. 91343.7 -2141.5  
2763 9.8 91346.1 -2111.5  
2764 9.8 91349.4 -2125.3  
2765 9.5 91422.6 -2120.2  
2766 9.1 91434.3 -2140.0  
2767 9.4 91500.6 -2126.7  
2768 9.3 91502.7 -2154.0  
2769 9.3 91519.8 -2152.5  
2770 9.2 91539.2 -2100.4

2771 9.3 91540.3 -2134.6  
2772 8.8 91544.8 -2159.2  
2773 9.4 91545.3 -2137.3  
2774 8.2 91555.6 -2154.0  
2775 9.2 91557.5 -2109.9  
2776 10. 91616.0 -2105.9  
2777 9.8 91620.1 -2156.7  
2778 9.5 91624.0 -2106.3  
2779 9.3 91624.6 -2124.9  
2780 8.7 91628.1 -2119.3

2781 8.5 91646.2 -2136.7  
2782 8.0 91656.9 -2111.9  
2783 9.4 91708.8 -2102.6  
2784 9.2 91746.4 -2130.1  
2785 9.7 91756.5 -2157.3  
2786 9.8 91825.2 -2114.7  
2787 9.8 91846.7 -2138.7  
2788 9.8 91852.5 -2156.3  
2789 9.0 91911.0 -2119.5  
2790 9.8 91917.7 -2151.2

2791 9.1 91918.2 -2130.5  
2792 9.4 91920.1 -2134.3  
2793 9.8 91928.7 -2125.0  
2794 8.7 91930.3 -2129.8  
2795 9.5 91940.9 -2116.8  
2796 9.2 91948.4 -2116.0  
2797 8.6 91956.9 -2117.4  
2798 9.9 92012.3 -2142.3  
2799 9.5 92012.8 -2103.0  
2800 8.5 92020.7 -2120.9

2801 9.5 92021.6 -2141.8  
2802 4.7 92040.0 -2142.3  
2803 9.7 92047.8 -2135.1  
2804 10. 92059.2 -2117.2  
2805 9.5 92113.1 -2147.6  
2806 9.3 92114.3 -2123.6  
2807 7.3 92117.5 -2153.9  
2808 9.8 92135.5 -2134.6  
2809 10. 92140.5 -2119.2  
2810 9.3 92146.1 -2129.8

2811 9.5 92150.8 -2139.0  
2812 9.3 92201.9 -2150.8  
2813 10. 92204.3 -2111.7  
2814 9.1 92248.2 -2103.6  
2815 8.5 92249.0 -2126.4  
2816 9.7 92259.2 -2127.6  
2817 9.1 92309.3 -2120.8  
2818 9.0 92313.0 -2140.4  
2819 7.9 92325.0 -2130.5  
2820 9.0 92342.0 -2131.6

2821 9.7 92342.2 -2124.8  
2822 9.1 92343.5 -2134.8  
2823 9.5 92401.1 -2103.3  
2824 10. 92405.8 -2123.6  
2825 8.3 92413.6 -2104.5  
2826 8.8 92431.4 -2139.7  
2827 9.5 92442.4 -2108.9  
2828 10. 92443.2 -2112.1  
2829 9.3 92445.7 -2126.6  
2830 9.3 92451.4 -2136.2

2831 9.3 92458.9 -2103.9  
2832 10. 92508.7 -2120.1  
2833 9.0 92513.6 -2107.6  
2834 9.0 92540.3 -2143.8  
2835 10. 92547.3 -2142.6  
2836 9.8 92554.6 -2109.2  
2837 9.1 92556.1 -2135.6  
2838 9.2 92609.5 -2107.2  
2839 9.5 92614.1 -2116.4  
2840 8.8 92615.7 -2156.2

2841 8.0 92619.2 -2152.7  
2842 8.8 92635.9 -2156.9  
2843 8.8 92658.9 -2156.0  
2844 9.3 92703.4 -2130.3  
2845 9.2 92730.6 -2112.5  
2846 9.9 92746.0 -2105.4  
2847 8.8 92751.1 -2152.4  
2848 9.0 92756.0 -2100.7  
2849 9.8 92759.7 -2134.2  
2850 9.5 92809.0 -2125.9

2851 9.5 92814.2 -2153.9  
2852 9.5 92818.1 -2123.7  
2853 8.9 92902.3 -2152.0  
2854 8.2 92907.6 -2117.8  
2855 9.8 92914.4 -2106.8  
2856 9.5 92918.5 -2114.9  
2857 9.7 92922.7 -2139.9  
2858 9.4 92930.4 -2104.0  
2859 7.5 92936.6 -2120.9  
2860 9.8 92950.6 -2125.0

2861 8.5 92954.1 -2147.0  
2862 9.5 93016.7 -2138.7  
2863 9.8 93026.6 -2147.8  
2864 9.4 93029.4 -2102.2  
2865 9.4 93032.6 -2152.9  
2866 9.1 93041.0 -2153.4  
2867 9.8 93046.7 -2136.0  
2868 9.8 93114.9 -2152.6  
2869 9.9 93124.2 -2100.4  
2870 9.5 93157.3 -2146.3

2871 9.7 93200.2 -2139.6  
2872 9.8 93226.9 -2159.6  
2873 9.8 93230.8 -2109.4  
2874 9.2 93232.7 -2122.0  
2875 9.2 93236.5 -2126.1  
2876 9.5 93259.4 -2115.2  
2877 9.5 93309.9 -2116.0  
2878 9.0 93408.1 -2157.0  
2879 9.2 93414.4 -2124.5  
2880 9.8 93416.9 -2150.5

2881 9.8 93417.6 -2132.4  
2882 8.2 93446.2 -2108.0  
2883 10. 93516.4 -2106.2  
2884 10. 93520.7 -2107.6  
2885 9.7 93526.5 -2132.1  
2886 9.3 93548.4 -2139.1  
2887 9.3 93611.9 -2141.9  
2888 9.1 93627.4 -2126.8  
2889 7.8 93632.9 -2139.7  
2890 8.8 93642.3 -2127.5

2891 9.5 93650.8 -2155.9  
2892 9.3 93702.4 -2105.2  
2893 10. 93702.9 -2102.8  
2894 9.6 93720.7 -2124.5  
2895 9.1 93737.5 -2144.3  
2896 9.5 93747.1 -2104.2  
2897 8.8 93757.3 -2117.7  
2898 9.0 93802.3 -2123.8  
2899 9.0 93812.2 -2147.2  
2900 9.5 93848.3 -2140.4

2901 9.2 93906.3 -2100.1  
2902 8.7 93911.7 -2105.5  
2903 8.8 93934.7 -2145.7  
2904 7.8 93937.6 -2158.6  
2905 8.5 93944.8 -2139.5  
2906 9.4 94005.7 -2147.4  
2907 7.7 94025.1 -2101.8  
2908 9.6 94103.1 -2126.6  
2909 9.5 94123.0 -2156.6  
2910 9.8 94128.7 -2149.2

2911 9.9 94151.4 -2106.2  
2912 7.2 94206.5 -2120.5  
2913 9.5 94216.8 -2153.7  
2914 9.3 94216.9 -2124.8  
2915 8.8 94221.7 -2132.4  
2916 8.9 94241.7 -2115.1  
2917 9.8 94243.7 -2159.7  
2918 9.3 94250.6 -2109.1  
2919 8.8 94252.2 -2106.3  
2920 9.8 94338.2 -2133.2

-21 3010 10h07m

2921 9.5 94401.8 -2145.5  
2922 9.4 94440.4 -2112.2  
2923 9.8 94456.4 -2155.9  
2924 9.5 94500.3 -2104.6  
2925 9.3 94534.2 -2132.6  
2926 9.1 94558.5 -2128.9  
2927 9.5 94604.8 -2110.6  
2928 9.3 94613.3 -2115.8  
2929 9.5 94640.5 -2113.7  
2930 9.5 94655.8 -2102.8

2931 9.4 94658.9 -2110.1  
2932 9.5 94701.8 -2153.0  
2933 8.8 94706.4 -2151.4  
2934 9.8 94724.8 -2115.7  
2935 6.0 94748.1 -2148.2  
2936 9.5 94748.8 -2122.0  
2937 9.1 94752.4 -2143.5  
2938 8.8 94754.5 -2130.2  
2939 9.8 94800.8 -2111.2  
2940 9.8 94812.7 -2108.8

2941 8.3 94821.9 -2139.2  
2942 9.4 94836.8 -2117.8  
2943 9.8 94841.9 -2137.6  
2944 9.4 94901.2 -2119.6  
2945 9.0 94915.8 -2109.2  
2946 9.2 94918.9 -2142.1  
2947 9.5 94944.1 -2142.1  
2948 9.1 94948.7 -2144.9  
2949 9.4 94950.7 -2139.0  
2950 9.5 95004.2 -2122.5

2951 9.2 95025.4 -2130.0  
2952 9.7 95037.8 -2142.3  
2953 9.8 95038.5 -2105.6  
2954 9.5 95039.4 -2152.5  
2955 9.5 95054.6 -2114.1  
2956 9.8 95108.0 -2148.8  
2957 7.8 95155.3 -2138.1  
2958 8.2 95219.3 -2129.9  
2959 9.3 95221.0 -2126.9  
2960 9.1 95221.8 -2109.8

2961 9.2 95224.1 -2157.8  
2962 9.5 95254.6 -2141.7  
2963 9.7 95338.6 -2159.7  
2964 9.5 95355.1 -2120.8  
2965 9.8 95400.6 -2125.9  
2966 9.5 95412.6 -2126.2  
2967 9.5 95432.3 -2135.4  
2968 9.5 95448.5 -2132.0  
2969 10. 95455.9 -2159.0  
2970 9.5 95517.0 -2147.2

2971 9.8 95523.4 -2107.5  
2972 9.4 95548.5 -2154.9  
2973 7.3 95600.8 -2124.0  
2974 9.5 95648.0 -2145.7  
2975 9.8 95719.3 -2104.6  
2976 7.8 95732.4 -2151.5  
2977 9.6 95734.8 -2111.5  
2978 9.5 95827.8 -2110.4  
2979 9.5 95850.4 -2151.1  
2980 9.6 95916.5 -2138.0

2981 9.0 95943.3 -2141.4  
2982 9.4 100004.3 -2134.8  
2983 9.8 100006.7 -2112.7  
2984 9.0 100012.3 -2148.5  
2985 9.5 100025.1 -2133.8  
2986 9.4 100035.8 -2122.5  
2987 7.0 100044.8 -2146.8  
2988 9.5 100057.2 -2135.4  
2989 9.3 100100.9 -2145.9  
2990 9.7 100112.6 -2135.2

2991 9. 100113.2 -2100.6  
2992 10. 100113.8 -2103.1  
2993 9. 100119.6 -2139.1  
2994 3. 100126.3 -2136.5  
2995 9.0 100143.6 -2145.8  
2996 9.4 100146.7 -2135.2  
2997 8.3 100158.0 -2103.0  
2998 8.3 100250.5 -2132.7  
2999 9.5 100327.6 -2121.0  
3000 9.7 100349.1 -2152.0

3001 9.3 100358.7 -2141.9  
3002 9.2 100402.6 -2156.4  
3003 9.2 100440.5 -2117.8  
3004 9.5 100442.8 -2126.1  
3005 9.2 100448.6 -2118.5  
3006 8.0 100503.5 -2154.8  
3007 8.8 100517.7 -2134.3  
3008 10. 100519.0 -2100.4  
3009 9.4 100702.9 -2105.3  
3010 8.3 100712.3 -2126.2



-21 3011 10h07m

3011 9.6 100716.4 -2149.8  
3012 8.6 100718.0 -2119.6  
3013 7.8 100746.8 -2100.6  
3014 8.8 100807.2 -2130.5  
3015 9.7 100809.9 -2126.5  
3016 9.1 100825.9 -2124.3  
3017 8.8 100854.3 -2152.2  
3018 8.9 100912.5 -2156.0  
3019 9.5 100917.8 -2140.3  
3020 9.0 100934.4 -2122.0

3021 8.9 100945.2 -2151.2  
3022 8.0 100950.3 -2145.6  
3023 9.9 101043.8 -2117.7  
3024 9.2 101051.2 -2156.0  
3025 10.1 101111.0 -2108.1  
3026 9.5 101119.5 -2139.6  
3027 9.8 101140.9 -2107.1  
3028 9.4 101141.9 -2155.5  
3029 9.8 101147.9 -2101.5  
3030 8.2 101213.0 -2114.4

3031 9.8 101217.6 -2157.1  
3032 10.1 101219.0 -2108.2  
3033 9.5 101240.5 -2137.3  
3034 9.9 101244.3 -2101.8  
3035 7.8 101256.9 -2147.5  
3036 9.4 101308.9 -2128.8  
3037 9.4 101324.0 -2145.3  
3038 8.5 101324.9 -2153.8  
3039 10.1 101325.0 -2122.2  
3040 9.8 101328.3 -2113.2

3041 9.8 101330.0 -2106.4  
3042 9.7 101338.9 -2106.9  
3043 9.5 101354.5 -2137.3  
3044 8.9 101420.8 -2113.1  
3045 6.7 101444.4 -2147.5  
3046 9.5 101454.2 -2158.7  
3047 10.1 101505.9 -2128.7  
3048 10.1 101521.8 -2159.5  
3049 9.4 101538.7 -2132.0  
3050 9.8 101621.1 -2127.9

3051 9.1 101627.3 -2133.1  
3052 9.1 101654.9 -2127.2  
3053 9.6 101727.4 -2143.5  
3054 9.8 101733.6 -2108.4  
3055 9.5 101735.9 -2154.5  
3056 9.0 101736.2 -2144.5  
3057 9.2 101807.0 -2133.8  
3058 9.4 101810.1 -2146.4  
3059 9.5 101816.7 -2141.0  
3060 9.8 101833.8 -2101.7

3061 7.8 101841.1 -2112.8  
3062 10.1 101909.6 -2104.6  
3063 9.9 101923.2 -2115.6  
3064 9.5 101925.2 -2136.0  
3065 8.9 101941.4 -2100.6  
3066 9.3 101956.1 -2117.3  
3067 9.4 101959.0 -2109.7  
3068 9.8 102103.5 -2143.0  
3069 9.5 102118.1 -2117.8  
3070 9.8 102144.7 -2129.2

3071 8.9 102145.0 -2139.5  
3072 8.8 102150.4 -2155.5  
3073 8.6 102207.8 -2150.8  
3074 9.8 102208.9 -2141.9  
3075 8.8 102214.4 -2150.8  
3076 9.3 102219.8 -2133.3  
3077 9.3 102221.2 -2154.9  
3078 9.8 102236.3 -2107.2  
3079 7.5 102243.7 -2130.1  
3080 7.2 102248.0 -2117.7

3081 9.6 102312.0 -2131.4  
3082 9.1 102340.9 -2146.7  
3083 9.4 102342.8 -2151.4  
3084 8.8 102409.8 -2149.4  
3085 9.0 102450.3 -2104.8  
3086 9.8 102452.4 -2120.5  
3087 9.1 102455.7 -2104.6  
3088 8.3 102457.1 -2126.7  
3089 9.6 102548.7 -2136.0  
3090 9.1 102551.2 -2101.8

3091 7.0 102600.3 -2147.0  
3092 8.5 102618.2 -2102.9  
3093 9.0 102620.2 -2113.0  
3094 9.5 102626.8 -2119.7  
3095 8.5 102630.7 -2150.0  
3096 9.8 102647.1 -2104.0  
3097 9.8 102700.0 -2120.3  
3098 9.8 102715.8 -2125.7  
3099 9.0 102742.7 -2115.8  
3100 7.3 102746.1 -2127.0

3101 9.5 102759.7 -2121.4  
3102 9.4 102832.4 -2126.2  
3103 9.2 102853.7 -2134.0  
3104 9.7 102903.0 -2112.8  
3105 9.0 102904.0 -2104.9  
3106 10.1 102918.2 -2151.7  
3107 9.7 102927.1 -2156.8  
3108 9.0 102940.2 -2122.8  
3109 7.2 102955.1 -2154.9  
3110 9.8 103027.5 -2100.2

3111 9.8 103036.3 -2155.6  
3112 9.8 103038.9 -2133.1  
3113 9.3 103055.4 -2107.8  
3114 9.9 103102.0 -2144.2  
3115 9.8 103113.0 -2115.4  
3116 9.6 103120.9 -2103.3  
3117 9.0 103129.0 -2107.7  
3118 9.8 103151.5 -2142.9  
3119 9.2 103209.0 -2146.0  
3120 9.2 103223.4 -2112.7

3121 9.4 103229.5 -2121.5  
3122 7.5 103244.9 -2146.2  
3123 9.7 103246.2 -2117.7  
3124 9.8 103302.1 -2126.2  
3125 9.8 103302.1 -2157.4  
3126 10.1 103335.0 -2153.7  
3127 9.5 103336.8 -2107.1  
3128 9.8 103345.0 -2122.0  
3129 9.8 103343.8 -2103.4  
3130 9.9 103411.8 -2105.2

3131 9.4 103424.1 -2135.5  
3132 9.4 103431.3 -2151.8  
3133 9.4 103450.3 -2111.1  
3134 9.5 103512.7 -2145.1  
3135 9.0 103539.5 -2128.1  
3136 10.1 103547.3 -2114.9  
3137 8.0 103557.2 -2144.8  
3138 10.1 103607.3 -2124.9  
3139 9.5 103629.2 -2154.2  
3140 9.5 103700.2 -2152.0

3141 10.1 103730.3 -2120.0  
3142 9.8 103735.5 -2146.8  
3143 9.8 103746.1 -2126.1  
3144 9.8 103749.1 -2106.7  
3145 9.0 103750.5 -2147.3  
3146 9.5 103751.5 -2130.2  
3147 10.1 103821.1 -2156.7  
3148 9.2 103839.6 -2152.4  
3149 9.0 103906.1 -2150.8  
3150 9.8 103921.6 -2114.7

3151 10.1 103932.7 -2153.6  
3152 8.0 104024.0 -2105.0  
3153 9.1 104026.8 -2131.2  
3154 8.2 104032.1 -2135.1  
3155 9.8 104040.0 -2155.7  
3156 10.1 104059.1 -2124.6  
3157 9.0 104122.5 -2142.5  
3158 8.7 104141.4 -2139.1  
3159 9.9 104208.5 -2118.8  
3160 9.3 104228.0 -2126.2

3161 8.6 104229.7 -2124.1  
3162 9.8 104234.3 -2105.1  
3163 9.8 104253.5 -2125.8  
3164 9.9 104325.4 -2110.8  
3165 9.6 104332.9 -2122.7  
3166 10.1 104405.3 -2102.7  
3167 9.3 104418.6 -2131.6  
3168 7.8 104440.1 -2118.2  
3169 9.8 104441.8 -2133.6  
3170 9.5 104444.3 -2143.0

3171 9.2 104457.2 -2124.8  
3172 9.3 104457.9 -2137.4  
3173 9.1 104504.8 -2155.5  
3174 9.6 104524.4 -2132.9  
3175 9.4 104527.7 -2151.7  
3176 9.3 104552.8 -2150.9  
3177 8.9 104604.8 -2115.7  
3178 10.1 104632.4 -2111.9  
3179 9.4 104662.8 -2128.2  
3180 9.3 104701.0 -2148.7

3181 9.3 104702.1 -2104.5  
3182 10.1 104732.3 -2120.5  
3183 9.4 104740.2 -2110.8  
3184 9.4 104740.7 -2135.3  
3185 9.4 104837.4 -2129.0  
3186 9.1 104849.8 -2132.1  
3187 10.1 104850.7 -2127.0  
3188 9.2 104853.0 -2102.8  
3189 9.1 104930.1 -2137.5  
3190 9.8 104933.1 -2115.5

3191 10.1 104943.0 -2100.5  
3192 7.7 104948.6 -2115.7  
3193 9.8 105003.3 -2129.5  
3194 9.4 105050.9 -2111.9  
3195 7.2 105051.7 -2114.5  
3196 9.1 105054.0 -2141.5  
3197 9.8 105130.1 -2121.7  
3198 9.8 105141.3 -2124.5  
3199 9.0 105156.9 -2110.8  
3200 9.0 105231.4 -2111.3

3201 10.1 105239.9 -2111.1  
3202 9.8 105255.5 -2125.9  
3203 9.2 105306.3 -2102.4  
3204 9.8 105315.8 -2110.7  
3205 10.1 105318.3 -2144.4  
3206 9.1 105318.7 -2126.2  
3207 9.6 105323.1 -2125.2  
3208 9.2 105336.3 -2133.4  
3209 9.8 105340.6 -2125.2  
3210 10.1 105343.3 -2158.1

3211 9.9 105354.8 -2101.0  
3212 8.0 105442.8 -2103.7  
3213 10.1 105443.3 -2130.2  
3214 9.8 105448.0 -2151.6  
3215 8.2 105458.6 -2122.1  
3216 9.3 105459.7 -2107.8  
3217 8.5 105502.7 -2106.2  
3218 9.8 105548.0 -2159.0  
3219 9.9 105559.8 -2117.0  
3220 9.5 105624.2 -2127.6

3221 9.1 105625.1 -2118.7  
3222 9.5 105635.7 -2101.2  
3223 8.7 105704.3 -2131.0  
3224 9.8 105727.1 -2155.5  
3225 9.5 105734.9 -2135.8  
3226 10.1 105738.6 -2113.3  
3227 9.8 105741.2 -2147.0  
3228 9.8 105750.3 -2124.8  
3229 8.8 105753.8 -2136.3  
3230 9.8 105817.2 -2159.8

3231 9.8 105831.2 -2126.3  
3232 8.7 105834.0 -2119.0  
3233 9.7 105852.7 -2118.6  
3234 8.7 105858.1 -2118.6  
3235 8.6 105905.1 -2141.2  
3236 9.5 105936.2 -2121.3  
3237 8.8 105942.2 -2134.7  
3238 9.3 110011.0 -2153.2  
3239 9.6 110021.8 -2118.2  
3240 9.2 110024.5 -2110.8

3241 8.8 110103.0 -2146.4  
3242 8.3 110129.6 -2122.7  
3243 10.1 110136.9 -2119.8  
3244 9.0 110138.4 -2116.1  
3245 10.1 110140.2 -2121.5  
3246 8.9 110145.5 -2117.5  
3247 9.1 110149.3 -2102.7  
3248 9.1 110150.1 -2106.5  
3249 9.3 110224.4 -2103.0  
3250 10.1 110234.6 -2123.5

3251 9.0 110246.3 -2151.5  
3252 9.1 110252.8 -2152.3  
3253 9.2 110257.9 -2115.3  
3254 9.1 110309.8 -2150.1  
3255 9.3 110327.4 -2104.3  
3256 10.1 110328.4 -2141.3  
3257 9.8 110328.4 -2140.0  
3258 9.5 110329.8 -2104.6  
3259 10.1 110356.5 -2129.2  
3260 9.0 110424.8 -2117.1

3261 10.1 110457.7 -2158.2  
3262 9.5 110520.4 -2102.5  
3263 9.8 110537.8 -2129.0  
3264 7.7 110611.7 -2115.4  
3265 9.8 110617.8 -2143.2  
3266 9.5 110653.2 -2111.0  
3267 9.5 110715.7 -2102.8  
3268 9.2 110717.2 -2157.4  
3269 9.3 110731.2 -2122.7  
3270 9.7 110738.1 -2135.3

3271 9.4 110754.2 -2117.8  
3272 8.8 110755.9 -2131.5  
3273 9.2 110813.5 -2137.1  
3274 8.9 110840.4 -2130.4  
3275 9.5 110855.9 -2124.6  
3276 8.3 110903.5 -2112.7  
3277 8.3 110914.3 -2112.6  
3278 8.3 110936.8 -2105.0  
3279 9.6 111023.9 -2123.6  
3280 7.2 111037.3 -2121.0

-21 3370 11h37m

3281 9.6 111041.2 -2117.3  
3282 8.0 111045.4 -2138.7  
3283 9.2 111129.9 -2121.5  
3284 9.8 111134.3 -2109.9  
3285 8.3 111229.8 -2125.9  
3286 9.3 111231.7 -2155.9  
3287 8.8 111234.6 -2106.5  
3288 9.8 111239.2 -2153.1  
3289 9.0 111251.7 -2120.2  
3290 9.5 111317.8 -2132.4

3291 9.3 111414.8 -2143.1  
3292 7.0 111434.7 -2118.4  
3293 9.5 111440.0 -2135.6  
3294 9.5 111444.5 -2156.2  
3295 9.6 111505.6 -2121.8  
3296 9.0 111532.1 -2117.3  
3297 9.3 111549.5 -2103.7  
3298 9.3 111610.9 -2103.8  
3299 9.8 111612.9 -2101.4  
3300 7.5 111712.1 -2117.5

3301 9.5 111736.4 -2113.3  
3302 9.5 111748.9 -2104.8  
3303 10.1 111815.1 -2121.1  
3304 10.1 111818.1 -2118.9  
3305 9.8 111834.0 -2145.1  
3306 9.4 111838.4 -2120.5  
3307 8.5 111850.3 -2112.0  
3308 7.7 111901.5 -2153.3  
3309 9.5 111916.8 -2111.1  
3310 8.2 111951.7 -2125.5

3311 9.4 111955.3 -2111.7  
3312 10.1 111957.0 -2154.1  
3313 9.6 112007.4 -2158.7  
3314 9.8 112029.8 -2159.4  
3315 8.8 112050.6 -2157.1  
3316 7.5 112135.3 -2135.8  
3317 9.7 112221.9 -2120.8  
3318 9.8 112223.7 -2116.7  
3319 9.4 112225.8 -2147.1  
3320 10.1 112231.7 -2139.3

3321 9.9 112253.2 -2144.8  
3322 9.4 112312.2 -2159.1  
3323 9.1 112338.6 -2145.5  
3324 9.0 112338.9 -2159.6  
3325 9.4 112352.6 -2128.5  
3326 9.8 112401.3 -2134.8  
3327 9.6 112441.5 -2157.7  
3328 9.1 112530.0 -2111.5  
3329 9.5 112553.5 -2107.1  
3330 9.5 112557.1 -2126.7

3331 8.3 112627.4 -2139.4  
3332 8.7 112628.9 -2100.6  
3333 9.4 112650.4 -2129.4  
3334 10.1 112700.4 -2139.5  
3335 10.1 112728.9 -2137.9  
3336 10.1 112735.9 -2112.7  
3337 9.1 112756.8 -2105.8  
3338 9.1 112839.6 -2130.6  
3339 8.5 112850.4 -2141.3  
3340 9.8 112903.3 -2145.1

3341 9.8 112929.8 -2108.2  
3342 9.1 112931.9 -2112.5  
3343 9.1 112938.8 -2151.3  
3344 9.2 113046.3 -2111.6  
3345 9.4 113121.0 -2104.5  
3346 9.7 113121.7 -2127.9  
3347 9.4 113128.8 -2128.6  
3348 9.3 113134.2 -2139.5  
3349 8.8 113131.2 -2148.0  
3350 9.4 113221.4 -2155.7

3351 9.5 113221.9 -2157.6  
3352 8.9 113257.6 -2117.5  
3353 10.1 113258.4 -2154.9  
3354 8.7 113314.4 -2131.6  
3355 9.8 113319.6 -2135.4  
3356 9.8 113355.1 -2140.4  
3357 9.3 113411.7 -2126.6  
3358 9.4 113423.3 -2157.4  
3359 9.1 113427.2 -2154.3  
3360 8.5 113431.6 -2151.0

3361 8.9 113500.5 -2102.7  
3362 9.1 113501.0 -2150.2  
3363 9.3 113508.0 -2105.1  
3364 9.6 113509.3 -2142.8  
3365 8.8 113512.5 -2143.5  
3366 9.6 113526.1 -2118.8  
3367 9.5 113526.4 -2159.8  
3368 9.5 113620.3 -2102.6  
3369 8.5 113645.4 -2144.8  
3370 9.9 113728.0 -2159.2



-21 3371 11h38m

3371 9.0 113805.9 -2121.7  
3372 9.0 113806.4 -2125.7  
3373 9.2 113808.7 -2126.2  
3374 9.8 113816.9 -2123.3  
3375 9.6 113853.3 -2103.4  
3376 9.8 113856.4 -2136.0  
3377 9.5 113912.9 -2149.0  
3378 9.1 113931.3 -2143.6  
3379 8.5 113950.9 -2138.5  
3380 9.7 114001.3 -2131.6

3381 9.5 114001.7 -2107.3  
3382 9.9 114031.2 -2106.4  
3383 9.7 114037.5 -2128.7  
3384 9.3 114045.7 -2117.1  
3385 9.2 114134.1 -2102.1  
3386 9.5 114150.1 -2126.1  
3387 9.5 114150.4 -2140.6  
3388 9.7 114155.6 -2132.1  
3389 8.5 114200.2 -2117.4  
3390 9.5 114236.1 -2150.4

3391 9.0 114259.0 -2142.8  
3392 9.2 114322.1 -2112.5  
3393 9.8 114322.3 -2103.3  
3394 8.2 114328.1 -2120.3  
3395 9.1 114328.7 -2138.3  
3396 9.5 114329.6 -2112.2  
3397 8.6 114338.8 -2135.2  
3398 9.4 114429.5 -2154.9  
3399 10. 114451.8 -2120.5  
3400 9.5 114453.0 -2107.5

3401 9.8 114508.5 -2150.6  
3402 9.0 114515.5 -2121.9  
3403 8.8 114516.2 -2112.7  
3404 9.7 114519.7 -2128.9  
3405 9.6 114529.0 -2123.6  
3406 9.7 114536.0 -2132.2  
3407 9.4 114550.5 -2114.7  
3408 9.8 114559.4 -2154.4  
3409 9.4 114602.5 -2123.5  
3410 9.5 114623.9 -2111.6

3411 9.6 114630.0 -2114.5  
3412 9.9 114701.5 -2102.9  
3413 8.9 114704.3 -2103.7  
3414 8.2 114710.4 -2105.5  
3415 9.2 114720.9 -2148.4  
3416 9.9 114723.5 -2118.2  
3417 9.9 114731.9 -2112.8  
3418 8.8 114745.3 -2128.9  
3419 9.5 114755.7 -2138.0  
3420 9.1 114807.3 -2134.6

3421 9.0 114817.2 -2137.2  
3422 7.7 114833.4 -2122.5  
3423 9.4 114835.8 -2105.3  
3424 9.8 114855.7 -2115.4  
3425 8.7 114906.6 -2115.0  
3426 9.4 114966.9 -2107.6  
3427 9.5 114988.0 -2111.2  
3428 9.9 114940.3 -2111.2  
3429 9.8 114942.6 -2118.1  
3430 10. 114947.4 -2113.7

3431 10. 114953.5 -2109.5  
3432 7.2 114954.8 -2143.8  
3433 9.2 115000.6 -2138.6  
3434 9.8 115000.7 -2153.6  
3435 9.6 115044.3 -2138.3  
3436 10. 115045.9 -2139.0  
3437 9.2 115059.3 -2148.2  
3438 9.8 115202.4 -2125.6  
3439 9.9 115213.1 -2103.2  
3440 9.5 115239.5 -2140.5

3441 9.1 115303.1 -2123.4  
3442 8.5 115305.1 -2104.2  
3443 6.2 115318.5 -2101.3  
3444 9. 115340.7 -2118.5  
3445 9. 115346.5 -2154.7  
3446 8.8 115409.9 -2138.5  
3447 9.5 115412.5 -2101.6  
3448 8.8 115415.4 -2147.0  
3449 9.8 115426.8 -2150.9  
3450 9.5 115440.7 -2129.6

3451 9.5 115447.3 -2136.8  
3452 9.8 115451.1 -2118.4  
3453 8.9 115453.8 -2139.2  
3454 9.8 115454.0 -2124.4  
3455 9.8 115503.0 -2115.5  
3456 10. 115503.8 -2109.8  
3457 9.3 115508.9 -2100.4  
3458 9.5 115519.9 -2133.7  
3459 9.9 115524.5 -2134.5  
3460 9.3 115534.2 -2125.3

3461 7.5 115535.0 -2120.6  
3462 9.0 115543.9 -2106.5  
3463 7.7 115647.1 -2133.7  
3464 9.8 115702.8 -2157.8  
3465 9.8 115721.0 -2118.3  
3466 9.1 115731.8 -2102.2  
3467 9.4 115741.3 -2147.3  
3468 9.5 115743.4 -2111.8  
3469 9.0 115803.1 -2137.6  
3470 9.8 115821.6 -2103.8

3471 9.6 115821.8 -2110.0  
3472 10. 115848.8 -2110.3  
3473 7.2 115849.3 -2159.5  
3474 9.5 115851.3 -2129.4  
3475 9.8 115934.7 -2102.0  
3476 8.0 115944.5 -2134.1  
3477 9.0 120027.6 -2159.1  
3478 8.2 120036.6 -2126.7  
3479 9.4 120045.0 -2116.1  
3480 9.0 120045.1 -2146.1

3481 9.1 120052.9 -2129.7  
3482 8.6 120100.1 -2151.0  
3483 10. 120114.2 -2118.9  
3484 8.5 120119.5 -2142.9  
3485 9.5 120154.7 -2125.2  
3486 9.1 120237.4 -2138.6  
3487 2.5 120241.1 -2148.6  
3488 9.4 120315.6 -2115.8  
3489 9.5 120344.7 -2134.6  
3490 8.3 120409.1 -2119.0

3491 8.8 120445.8 -2142.6  
3492 9.7 120524.5 -2127.6  
3493 9.5 120549.0 -2110.3  
3494 9.1 120718.5 -2135.2  
3495 9.7 120757.6 -2155.6  
3496 9.7 120818.9 -2108.2  
3497 8.0 120819.8 -2115.0  
3498 9.1 120820.9 -2108.5  
3499 9.4 120823.4 -2159.9  
3500 9.1 120827.5 -2100.9

3501 8.5 120827.6 -2141.7  
3502 10. 120857.3 -2115.9  
3503 9.8 121001.6 -2134.3  
3504 8.3 121010.2 -2108.7  
3505 8.8 121059.7 -2133.1  
3506 9.7 121216.5 -2141.2  
3507 9.5 121221.7 -2112.3  
3508 8.7 121224.1 -2122.8  
3509 9.5 121236.2 -2126.5  
3510 10. 121238.8 -2138.8

3511 6.5 121240.6 -2121.9  
3512 9.7 121251.6 -2156.2  
3513 9.3 121252.3 -2152.5  
3514 5.0 121303.5 -2124.3  
3515 10. 121303.6 -2159.0  
3516 10. 121310.0 -2102.6  
3517 9.8 121317.2 -2159.1  
3518 8.6 121318.5 -2131.3  
3519 9.4 121325.5 -2104.2  
3520 9.6 121326.8 -2134.1

3521 10. 121356.1 -2138.1  
3522 8.7 121358.0 -2137.8  
3523 9.3 121406.8 -2147.5  
3524 9.4 121408.0 -2131.6  
3525 9.2 121416.0 -2115.7  
3526 9.5 121418.5 -2122.6  
3527 10. 121448.1 -2126.8  
3528 9.3 121457.4 -2138.7  
3529 9.3 121519.5 -2119.8  
3530 8.8 121603.0 -2157.8

3531 8.5 121638.9 -2115.5  
3532 9.5 121644.4 -2114.6  
3533 9.2 121650.3 -2159.9  
3534 9.2 121706.8 -2101.5  
3535 9.8 121752.0 -2126.3  
3536 10. 121759.3 -2108.3  
3537 9.7 121833.9 -2128.7  
3538 10. 121906.0 -2151.5  
3539 10. 121906.4 -2155.2  
3540 9.8 121913.7 -2115.4

3541 7.7 121930.9 -2135.0  
3542 9.4 121942.2 -2115.0  
3543 9.1 121943.2 -2112.3  
3544 8.6 122012.8 -2135.8  
3545 9.0 122110.1 -2104.9  
3546 8.9 122132.0 -2155.5  
3547 9.8 122148.8 -2151.3  
3548 9.6 122200.1 -2119.5  
3549 9.0 122204.6 -2115.2  
3550 9.4 122206.3 -2148.0

3551 9.0 122209.2 -2140.4  
3552 8.5 122229.1 -2104.2  
3553 9.5 122324.5 -2103.2  
3554 9.7 122419.6 -2125.5  
3555 9.4 122433.4 -2115.3  
3556 9.5 122433.7 -2154.6  
3557 7.8 122450.5 -2122.0  
3558 9.4 122459.1 -2137.7  
3559 9.3 122503.9 -2129.5  
3560 8.6 122532.6 -2154.2

3561 9.8 122533.3 -2138.1  
3562 9.4 122535.9 -2127.8  
3563 9.0 122615.0 -2137.9  
3564 9.2 122619.4 -2116.7  
3565 9.1 122625.5 -2126.5  
3566 9.2 122703.4 -2111.0  
3567 9.5 122704.3 -2102.2  
3568 9.3 122812.0 -2145.7  
3569 9.9 122857.6 -2119.6  
3570 8.7 122908.4 -2133.2

3571 9.0 122921.3 -2102.1  
3572 9.8 122954.8 -2137.7  
3573 10. 122959.1 -2125.0  
3574 9.8 123002.9 -2156.5  
3575 9.7 123005.4 -2120.9  
3576 9.2 123016.0 -2123.6  
3577 9.4 123020.6 -2124.9  
3578 8.5 123123.8 -2149.1  
3579 9.4 123131.9 -2108.3  
3580 9.0 123140.2 -2151.7

3581 9.4 123202.1 -2105.8  
3582 9.8 123207.7 -2112.6  
3583 10. 123235.0 -2122.6  
3584 9.4 123238.1 -2131.7  
3585 9.3 123248.1 -2116.5  
3586 9.4 123250.6 -2108.0  
3587 9.5 123338.0 -2107.6  
3588 9.2 123338.0 -2155.2  
3589 9.0 123345.6 -2138.4  
3590 9.1 123357.5 -2123.8

3591 9.6 123359.4 -2125.3  
3592 9.8 123410.8 -2159.3  
3593 8.5 123418.1 -2155.8  
3594 9.0 123433.5 -2110.0  
3595 9.5 123451.0 -2146.6  
3596 9.5 123533.1 -2153.5  
3597 10. 123540.4 -2114.0  
3598 9.5 123754.3 -2110.2  
3599 9.5 123908.3 -2136.6  
3600 7.5 123813.3 -2150.1

3601 9.5 123831.1 -2158.7  
3602 8.9 123840.2 -2115.1  
3603 8.7 123855.0 -2154.8  
3604 9.4 123900.8 -2109.0  
3605 7.7 123922.8 -2120.0  
3606 9.1 123928.8 -2134.1  
3607 8.8 124022.9 -2152.5  
3608 9.4 124052.1 -2112.2  
3609 9.8 124056.5 -2151.4  
3610 9.0 124059.2 -2142.2

3611 9.4 124115.7 -2115.2  
3612 8.3 124143.7 -2136.2  
3613 9.8 124159.0 -2153.3  
3614 5.1 124209.1 -2109.3  
3615 8.6 124212.9 -2135.7  
3616 9.2 124337.6 -2125.5  
3617 9.3 124406.0 -2102.1  
3618 9.3 124407.8 -2134.3  
3619 9.4 124409.0 -2120.9  
3620 9.5 124505.1 -2125.8

3621 9.5 124532.4 -2130.3  
3622 9.9 124610.2 -2103.4  
3623 9.3 124621.3 -2101.2  
3624 9.3 124701.9 -2128.3  
3625 9.4 124712.1 -2146.1  
3626 9.1 124734.8 -2122.9  
3627 8.9 124741.7 -2155.8  
3628 9.3 124842.0 -2158.1  
3629 9.7 124843.0 -2145.8  
3630 9.4 124851.0 -2130.0

3631 9.5 124852.2 -2121.5  
3632 9.5 124906.1 -2135.3  
3633 9.3 124920.5 -2154.6  
3634 7.0 124927.6 -2122.7  
3635 6.3 124950.0 -2158.0  
3636 9.8 125113.6 -2107.6  
3637 9.3 125114.3 -2139.5  
3638 10. 125131.6 -2102.3  
3639 7.9 125142.3 -2120.7  
3640 9.5 125143.6 -2158.8

-21 3730 13h24m

3641 9.1 125204.5 -2116.6  
3642 10. 125246.4 -2133.8  
3643 8.2 125246.6 -2100.1  
3644 8.5 125346.7 -2139.5  
3645 8.9 125423.7 -2137.9  
3646 9.3 125446.1 -2152.0  
3647 9.5 125541.0 -2129.9  
3648 9.0 125709.8 -2147.8  
3649 9.5 125723.2 -2133.2  
3650 7.7 125749.7 -2117.2

3651 9.8 125851.5 -2138.8  
3652 9.3 125925.7 -2113.7  
3653 9.8 125935.5 -2142.7  
3654 9.5 130014.2 -2145.0  
3655 9.5 130015.6 -2129.4  
3656 9.4 130057.4 -2151.9  
3657 9.5 130134.1 -2134.7  
3658 9.4 130137.6 -2104.6  
3659 9.6 130149.8 -2139.9  
3660 7.4 130154.5 -2124.2

3661 9.5 130235.0 -2152.7  
3662 8.0 130237.4 -2135.4  
3663 9.2 130258.1 -2145.5  
3664 8.8 130259.8 -2125.8  
3665 9.5 130309.9 -2107.1  
3666 9.5 130420.5 -2112.0  
3667 9.6 130431.0 -2134.5  
3668 9.2 130458.3 -2107.0  
3669 9.0 130532.0 -2153.2  
3670 9.8 130533.5 -2130.2

3671 9.7 130553.4 -2142.8  
3672 9.2 130602.7 -2147.0  
3673 7.7 130611.5 -2135.5  
3674 9.8 130654.5 -2143.9  
3675 9.8 130657.8 -2122.5  
3676 9.4 130707.4 -2135.9  
3677 9.6 130718.7 -2155.6  
3678 9.8 130755.8 -2112.3  
3679 9.8 130808.1 -2148.5  
3680 9.6 130810.6 -2123.7

3681 8.0 130817.5 -2108.6  
3682 9.5 130832.4 -2129.4  
3683 9.8 130855.9 -2131.0  
3684 8.0 130957.6 -2101.1  
3685 8.9 130912.1 -2115.8  
3686 9.8 130919.2 -2159.0  
3687 8.3 130935.6 -2158.6  
3688 9.3 130959.4 -2127.1  
3689 9.2 131011.0 -2138.2  
3690 9.8 131024.4 -2157.5

3691 9.5 131045.7 -2102.4  
3692 9.2 131105.8 -2117.8  
3693 9.8 131112.3 -2109.7  
3694 9.8 131128.5 -2158.5  
3695 9.8 131200.7 -2133.2  
3696 9.5 131207.7 -2140.0  
3697 8.3 131240.5 -2121.9  
3698 9.6 131246.6 -2138.4  
3699 9.4 131259.7 -2130.1  
3700 7.3 131311.6 -2136.9

3701 8.1 131314.8 -2102.6  
3702 9.5 131315.8 -2134.0  
3703 9.4 131447.7 -2130.1  
3704 9.0 131620.5 -2143.1  
3705 9.1 131703.7 -2145.9  
3706 9.0 131748.0 -2156.0  
3707 9.5 131808.8 -2107.0  
3708 9.4 131813.6 -2124.4  
3709 9.8 131819.2 -2122.4  
3710 9.5 131841.8 -2102.3

3711 9.7 131849.5 -2142.2  
3712 8.2 131850.1 -2132.1  
3713 9.4 131911.8 -2145.4  
3714 8.2 131914.5 -2136.5  
3715 9.7 131931.5 -2130.2  
3716 10. 131954.5 -2154.7  
3717 9.8 132008.4 -2140.3  
3718 7.7 132019.4 -2139.2  
3719 9.2 132027.4 -2139.0  
3720 9.8 132035.8 -2150.6

3721 9.7 132038.4 -2140.6  
3722 9.2 132105.0 -2124.2  
3723 8.5 132146.7 -2136.9  
3724 9.8 132155.1 -2106.8  
3725 9.5 132158.1 -2136.7  
3726 9.6 132253.0 -2117.5  
3727 9.9 132302.1 -2102.6  
3728 9.5 132303.9 -2127.1  
3729 9.7 132348.2 -2132.3  
3730 9.5 132435.6 -2135.8



-21 3731 13h24m

3731 9.9 132445.5 -2110.8  
3732 8.9 132452.8 -2126.2  
3733 9.5 132506.5 -2130.9  
3734 9.5 132540.6 -2133.1  
3735 9.1 132553.2 -2154.8  
3736 7.5 132728.9 -2152.6  
3737 9.1 132732.0 -2144.8  
3738 6.5 132737.8 -2117.0  
3739 8.5 132752.0 -2138.6  
3740 10. 132840.1 -2157.5  
  
3741 7.8 132907.8 -2106.6  
3742 9.0 132924.7 -2111.1  
3743 8.9 132940.7 -2128.9  
3744 9.7 133020.1 -2125.2  
3745 9.2 133025.2 -2126.0  
3746 9.7 133107.2 -2108.8  
3747 9.7 133142.6 -2159.4  
3748 9.5 133156.8 -2128.1  
3749 9.6 133207.3 -2139.2  
3750 8.5 133211.8 -2153.6  
  
3751 9.8 133248.4 -2126.4  
3752 9.1 133257.9 -2102.7  
3753 9.8 133335.2 -2124.4  
3754 9.5 133420.5 -2102.7  
3755 8.0 133424.0 -2118.3  
3756 9.8 133435.7 -2133.3  
3757 9.0 133452.1 -2153.4  
3758 9.5 133456.7 -2143.1  
3759 9.1 133512.6 -2151.1  
3760 8.2 133522.3 -2137.9  
  
3761 9.7 133606.6 -2142.2  
3762 9.2 133629.1 -2112.3  
3763 9.8 133630.0 -2102.4  
3764 9.5 133643.9 -2127.9  
3765 9.8 133706.6 -2146.0  
3766 9.2 133744.7 -2129.0  
3767 9.2 133811.4 -2107.5  
3768 9.2 133820.7 -2158.3  
3769 9.8 133844.8 -2146.1  
3770 8.9 133854.3 -2112.2  
  
3771 9.7 133936.8 -2118.0  
3772 9.2 133941.0 -2107.2  
3773 8.9 133949.2 -2124.9  
3774 10. 134004.5 -2120.4  
3775 7.7 134031.9 -2126.0  
3776 9.4 134040.3 -2106.1  
3777 9.4 134041.3 -2157.7  
3778 8.2 134059.9 -2159.5  
3779 9.1 134132.8 -2103.0  
3780 9.8 134149.8 -2108.1  
  
3781 7.8 134200.5 -2122.3  
3782 9.2 134222.5 -2136.9  
3783 9.9 134239.1 -2114.0  
3784 9.8 134258.9 -2153.7  
3785 9.0 134319.3 -2121.6  
3786 9.8 134323.6 -2118.0  
3787 9.8 134353.4 -2111.2  
3788 9.0 134421.6 -2103.5  
3789 9.9 134452.0 -2120.1  
3790 9.8 134538.7 -2107.1  
  
3791 9.6 134555.9 -2125.7  
3792 9.5 134559.8 -2144.0  
3793 8.7 134604.4 -2131.0  
3794 9.0 134608.0 -2112.0  
3795 9.7 134609.5 -2130.1  
3796 9.4 134610.0 -2110.7  
3797 9.2 134610.3 -2156.0  
3798 9.3 134614.9 -2144.2  
3799 8.6 134624.9 -2116.3  
3800 6.7 134629.0 -2131.4  
  
3801 9.6 134700.4 -2115.4  
3802 9.0 134726.0 -2134.2  
3803 9.5 134743.6 -2145.1  
3804 9.4 134751.4 -2139.7  
3805 9.5 134827.4 -2135.5  
3806 9.5 134829.6 -2110.9  
3807 9.0 134831.6 -2148.5  
3808 9.4 134852.9 -2128.1  
3809 9.1 134923.4 -2136.2  
3810 9.3 135021.3 -2105.8  
  
3811 9.5 135031.2 -2147.6  
3812 9.6 135115.2 -2115.9  
3813 8.5 135150.3 -2138.5  
3814 9.6 135211.1 -2158.1  
3815 9.8 135235.7 -2126.3  
3816 9.8 135310.6 -2114.4  
3817 8.9 135351.7 -2110.8  
3818 9.5 135357.9 -2116.4  
3819 9.0 135447.7 -2100.5  
3820 9.1 135509.9 -2141.6

3821 9.1 135511.3 -2158.2  
3822 9.4 135525.7 -2138.2  
3823 9.7 135545.8 -2128.3  
3824 6.5 135548.1 -2143.4  
3825 9.1 135552.5 -2155.3  
3826 9.7 135601.6 -2132.9  
3827 9.8 135605.4 -2151.0  
3828 8.4 135608.6 -2103.2  
3829 9.8 135622.7 -2129.3  
3830 8.7 135623.8 -2104.0  
  
3831 7.5 135700.4 -2155.1  
3832 9.7 135704.4 -2159.0  
3833 9.7 135712.6 -2104.2  
3834 9.3 135721.0 -2112.4  
3835 9.9 135731.2 -2133.5  
3836 9.9 135739.8 -2137.0  
3837 9.0 135754.5 -2154.2  
3838 9.8 135803.4 -2111.8  
3839 9.3 135810.9 -2150.8  
3840 9.4 135831.9 -2140.8  
  
3841 9.6 135835.1 -2136.4  
3842 9.1 135835.5 -2139.6  
3843 9.7 135916.7 -2123.1  
3844 9.6 135947.2 -2115.4  
3845 8.6 135955.9 -2120.2  
3846 9.8 140051.8 -2116.4  
3847 9.2 140101.6 -2156.7  
3848 8.0 140107.3 -2150.8  
3849 9.8 140114.9 -2147.7  
3850 10. 140120.5 -2124.3  
  
3851 9.5 140125.5 -2123.5  
3852 9.4 140131.4 -2104.4  
3853 9.9 140139.0 -2139.7  
3854 9.8 140205.5 -2156.8  
3855 9.8 140304.8 -2118.7  
3856 9.8 140306.6 -2144.1  
3857 9.2 140311.1 -2124.9  
3858 9.3 140319.1 -2123.9  
3859 9.1 140332.6 -2145.6  
3860 9.8 140358.8 -2146.7  
  
3861 9.9 140400.4 -2140.2  
3862 9.8 140403.4 -2134.6  
3863 9.1 140448.2 -2101.2  
3864 8.0 140536.8 -2147.2  
3865 9.1 140551.1 -2126.5  
3866 9.8 140555.3 -2146.1  
3867 9.8 140630.5 -2111.4  
3868 9.8 140642.0 -2117.7  
3869 7.9 140700.7 -2153.0  
3870 9.8 140732.7 -2154.4  
  
3871 9.8 140754.8 -2143.4  
3872 9.4 140802.3 -2135.1  
3873 9.6 140828.4 -2105.7  
3874 9.4 140836.4 -2113.5  
3875 9.6 140844.6 -2122.9  
3876 9.2 140852.3 -2124.5  
3877 7.5 140906.1 -2106.8  
3878 9.5 140909.9 -2145.0  
3879 7.0 140934.5 -2108.9  
3880 9.8 141000.1 -2142.4  
  
3881 9.3 141134.9 -2111.8  
3882 9.6 141136.5 -2120.9  
3883 9.6 141150.6 -2146.1  
3884 9.0 141252.3 -2115.0  
3885 9.8 141310.8 -2101.5  
3886 9.3 141319.1 -2120.5  
3887 9.8 141348.3 -2109.5  
3888 9.1 141422.6 -2118.7  
3889 9.8 141515.0 -2159.1  
3890 9.0 141531.9 -2102.0  
  
3891 8.0 141548.4 -2102.8  
3892 9.8 141556.5 -2149.6  
3893 9.5 141606.1 -2120.4  
3894 9.3 141615.0 -2103.4  
3895 9.2 141642.3 -2151.6  
3896 9.0 141649.4 -2155.2  
3897 9.5 141709.4 -2151.1  
3898 7.7 141745.9 -2127.7  
3899 8.5 141809.9 -2154.3  
3900 9.1 141843.1 -2127.5  
  
3901 8.0 141843.9 -2112.6  
3902 9.1 141847.3 -2100.7  
3903 8.9 141848.5 -2135.4  
3904 9.3 141906.8 -2149.6  
3905 9.2 141916.7 -2154.2  
3906 7.2 141923.3 -2120.3  
3907 9.8 141936.9 -2156.3  
3908 9.8 141944.7 -2102.9  
3909 9.2 141953.1 -2156.6  
3910 9.8 142010.0 -2144.9

3911 10. 142020.0 -2111.6  
3912 8.3 142022.3 -2120.4  
3913 7.9 142024.6 -2137.1  
3914 9.1 142033.1 -2127.7  
3915 8.8 142050.7 -2158.4  
3916 9.5 142101.2 -2106.1  
3917 7.0 142228.0 -2148.7  
3918 8.6 142241.0 -2154.5  
3919 9.0 142329.6 -2115.5  
3920 9.5 142342.0 -2141.8  
  
3921 9.6 142342.7 -2146.9  
3922 9.8 142449.5 -2129.9  
3923 9.9 142454.3 -2102.7  
3924 9.3 142508.8 -2142.2  
3925 9.5 142525.0 -2128.7  
3926 9.4 142540.9 -2127.6  
3927 9.1 142541.8 -2139.8  
3928 9.3 142601.1 -2114.5  
3929 7.5 142612.2 -2145.3  
3930 9.5 142612.7 -2108.2  
  
3931 9.5 142705.9 -2126.5  
3932 10. 142707.2 -2102.6  
3933 7.5 142754.7 -2132.6  
3934 10. 142841.0 -2122.2  
3935 7.9 142849.8 -2130.1  
3936 9.3 142907.7 -2142.5  
3937 9.0 142932.8 -2124.7  
3938 9.4 143001.7 -2100.3  
3939 9.8 143006.0 -2107.6  
3940 9.0 143036.0 -2154.7  
  
3941 8.0 143040.6 -2142.0  
3942 8.3 143138.5 -2102.6  
3943 9.1 143218.5 -2146.5  
3944 9.8 143226.9 -2111.4  
3945 9.8 143244.2 -2119.4  
3946 7.3 143250.6 -2159.3  
3947 9.4 143311.8 -2120.9  
3948 9.8 143353.6 -2159.3  
3949 9.3 143412.5 -2136.6  
3950 9.7 143458.9 -2124.1  
  
3951 9.5 143518.8 -2119.5  
3952 9.1 143519.3 -2147.0  
3953 8.5 143553.7 -2120.7  
3954 9.2 143621.0 -2137.7  
3955 9.7 143637.1 -2130.8  
3956 8.8 143639.5 -2113.7  
3957 9.5 143712.0 -2108.7  
3958 9.5 143719.1 -2148.1  
3959 7.8 143728.3 -2147.1  
3960 9.8 143752.5 -2125.1  
  
3961 7.8 143812.0 -2147.1  
3962 8.9 143829.4 -2133.4  
3963 9.8 143831.6 -2115.4  
3964 8.8 143836.0 -2151.5  
3965 9.6 143902.7 -2115.6  
3966 9.7 143907.2 -2113.9  
3967 9.8 144037.5 -2116.8  
3968 9.4 144044.5 -2115.0  
3969 9.0 144050.1 -2152.4  
3970 9.5 144115.3 -2132.5  
  
3971 9.0 144141.2 -2138.2  
3972 8.8 144156.3 -2157.9  
3973 9.2 144157.9 -2111.6  
3974 9.0 144219.2 -2144.7  
3975 9.8 144224.1 -2107.6  
3976 9.6 144247.9 -2133.8  
3977 9.5 144257.1 -2145.0  
3978 9.6 144315.2 -213.3  
3979 8.6 144327.4 -2128.2  
3980 8.9 144406.1 -2106.4  
  
3981 10. 144435.1 -2104.6  
3982 9.5 144435.5 -2112.4  
3983 9.5 144447.8 -2123.8  
3984 9.0 144453.6 -2106.6  
3985 8.3 144502.2 -2100.1  
3986 9.5 144504.2 -2133.8  
3987 8.5 144527.1 -2107.0  
3988 9.8 144530.9 -2122.9  
3989 9.8 144545.6 -2153.5  
3990 9.7 144601.4 -2107.2  
  
3991 9.8 144614.4 -2150.6  
3992 9.5 144618.1 -2138.1  
3993 9.5 144624.5 -2102.7  
3994 8.0 144806.5 -2123.8  
3995 10. 144816.0 -2139.2  
3996 9.8 144819.7 -2142.3  
3997 10. 144819.9 -2143.8  
3998 9.2 144825.6 -2152.5  
3999 9.3 144841.0 -2127.3  
4000 7.7 144907.2 -2133.4

4001 10. 144912.7 -2158.9  
4002 9.5 144920.4 -2107.2  
4003 9.8 144937.2 -2121.9  
4004 7.5 145019.9 -2148.8  
4005 9.3 145024.8 -2102.6  
4006 10. 145034.9 -2109.7  
4007 9.4 145056.3 -2151.0  
4008 9.7 145124.1 -2116.6  
4009 8.3 145135.5 -2125.1  
4010 9.5 145139.8 -2109.6  
  
4011 9.1 145207.4 -2139.5  
4012 9.8 145334.5 -2122.2  
4013 9.2 145358.8 -2119.9  
4014 9.6 145401.1 -2123.6  
4015 8.0 145410.0 -2126.4  
4016 8.9 145427.1 -2115.6  
4017 9.5 145526.6 -2111.9  
4018 9.2 145529.6 -2156.8  
4019 9.3 145553.8 -2130.8  
4020 9.8 145555.4 -2139.5  
  
4021 9.8 145607.4 -2121.6  
4022 9.8 145607.5 -2125.7  
4023 9.6 145629.5 -2158.7  
4024 9.0 145634.5 -2139.7  
4025 9.3 145650.6 -2153.7  
4026 9.1 145710.7 -2139.8  
4027 9.1 145724.7 -2137.0  
4028 7.6 145741.5 -2150.5  
4029 8.5 145804.2 -2116.9  
4030 6.5 145805.3 -2127.5  
  
4031 9.8 145812.3 -2103.3  
4032 8.9 145816.4 -2131.5  
4033 9.7 145846.2 -2155.2  
4034 10. 145857.0 -2154.0  
4035 9.5 145940.9 -2111.4  
4036 8.6 145959.7 -2132.1  
4037 9.3 150019.2 -2114.3  
4038 9.6 150023.3 -2119.1  
4039 9.0 150035.0 -2150.2  
4040 8.8 150041.4 -2110.0  
  
4041 9.1 150043.5 -2141.1  
4042 9.1 150044.6 -2139.6  
4043 9.5 150111.5 -2130.4  
4044 8.8 150111.8 -2100.4  
4045 8.8 150125.1 -2110.8  
4046 9.8 150224.4 -2109.5  
4047 9.1 150232.6 -2129.8  
4048 8.5 150242.9 -2130.9  
4049 9.4 150304.7 -2117.7  
4050 9.1 150342.8 -2149.0  
  
4051 10. 150347.4 -2141.0  
4052 9.5 150432.9 -2142.8  
4053 9.2 150535.0 -2136.7  
4054 9.1 150535.2 -2140.6  
4055 9.4 150540.9 -2145.0  
4056 9.0 150557.8 -2155.8  
4057 10. 150558.0 -2127.0  
4058 9.8 150605.8 -2113.8  
4059 10. 150605.8 -2131.1  
4060 10. 150614.2 -2121.0  
  
4061 9.4 150622.8 -2157.3  
4062 9.1 150623.4 -2102.6  
4063 9.0 150704.9 -2103.2  
4064 9.5 150713.5 -2118.7  
4065 6.0 150759.1 -2151.6  
4066 9.6 150813.6 -2154.7  
4067 9.5 150830.0 -2120.0  
4068 9.5 150838.9 -2131.8  
4069 9.0 150844.3 -2115.7  
4070 10. 150903.4 -2147.7  
  
4071 10. 150919.0 -2147.0  
4072 8.8 150922.3 -2102.2  
4073 9.6 150940.2 -2107.9  
4074 9.8 151008.1 -2117.0  
4075 9.4 151025.2 -2136.3  
4076 9.4 151037.5 -2117.4  
4077 9.8 151043.4 -2119.1  
4078 10. 151047.4 -2101.7  
4079 9.5 151102.9 -2115.7  
4080 9.8 151114.6 -2149.0  
  
4081 9.3 151128.5 -2125.1  
4082 9.6 151143.0 -2156.2  
4083 9.3 151145.7 -2103.8  
4084 9.1 151153.0 -2155.1  
4085 9.5 151155.3 -2116.6  
4086 9.0 151201.6 -2143.8  
4087 9.8 151203.9 -2114.6  
4088 9.8 151231.8 -2121.4  
4089 9.3 151234.2 -2149.4  
4090 9.0 151241.7 -2141.3

-21 4090 15h12m



-21 4091 15h12m

4091 9.0 151253.4 -2132.3  
4092 9.0 151308.6 -2148.7  
4093 9.6 151311.4 -2157.5  
4094 9.8 151334.1 -2104.5  
4095 9.5 151344.3 -2130.5  
4096 9.4 151410.8 -2106.3  
4097 9.4 151450.7 -2152.6  
4098 8.8 151455.2 -2109.3  
4099 9.3 151514.5 -2120.0  
4100 9.6 151520.1 -2137.5

4101 8.9 151528.0 -2149.7  
4102 9.4 151626.8 -2123.8  
4103 7.5 151632.5 -2131.4  
4104 7.7 151657.5 -2124.4  
4105 9.6 151710.2 -2103.5  
4106 9.0 151730.0 -2145.2  
4107 9.5 151752.5 -2114.3  
4108 9.4 151813.8 -2114.5  
4109 8.5 151817.5 -2159.4  
4110 9.6 151841.9 -2107.7

4111 8.9 151842.2 -2122.1  
4112 9.8 151855.8 -2146.9  
4113 9.3 151903.3 -2109.3  
4114 10. 151927.5 -2147.2  
4115 9.5 151952.6 -2136.1  
4116 9.4 152000.8 -2141.6  
4117 9.0 152001.5 -2109.8  
4118 9.7 152003.2 -2156.2  
4119 9.6 152006.0 -2138.9  
4120 8.9 152008.4 -2118.0

4121 9.5 152014.0 -2116.8  
4122 9.3 152020.1 -2118.9  
4123 9.5 152052.1 -2107.9  
4124 9.7 152121.9 -2136.6  
4125 9.8 152151.1 -2104.8  
4126 9.3 152203.5 -2148.3  
4127 9.8 152209.9 -2137.7  
4128 7.8 152217.6 -2122.7  
4129 8.6 152219.3 -2141.2  
4130 9.6 152219.6 -2126.9

4131 9.3 152238.3 -2123.7  
4132 9.8 152321.0 -2120.3  
4133 9.8 152324.0 -2142.8  
4134 9.8 152335.7 -2144.6  
4135 7.3 152343.8 -2127.9  
4136 9.8 152344.1 -2114.4  
4137 9.2 152415.0 -2118.0  
4138 9.8 152426.3 -2104.0  
4139 9.3 152440.8 -2130.7  
4140 9.8 152448.9 -2126.2

4141 10. 152510.0 -2100.7  
4142 9.4 152558.1 -2115.3  
4143 9.8 152600.0 -2113.3  
4144 9.5 152600.2 -2128.9  
4145 8.3 152603.5 -2125.6  
4146 9.8 152635.8 -2135.5  
4147 9.2 152644.9 -2139.4  
4148 7.5 152740.4 -2115.3  
4149 10. 152815.9 -2105.1  
4150 9.3 152816.4 -2133.1

4151 9.3 152836.1 -2143.6  
4152 7.0 152903.6 -2138.2  
4153 9.0 152924.1 -2107.8  
4154 9.5 152930.6 -2145.6  
4155 9.3 152937.7 -2135.2  
4156 10. 152947.7 -2143.3  
4157 8.2 153007.0 -2107.3  
4158 9.8 153020.7 -2115.5  
4159 8.2 153032.2 -2159.3  
4160 9.4 153136.6 -2151.0

4161 9.8 153136.8 -2121.1  
4162 9.2 153137.0 -2155.9  
4163 9.5 153200.4 -2114.9  
4164 10. 153207.7 -2121.8  
4165 8.1 153217.2 -2107.9  
4166 10. 153221.0 -2102.5  
4167 9.1 153231.9 -2137.0  
4168 9.5 153250.1 -2151.5  
4169 9.5 153250.3 -2154.9  
4170 9.2 153250.8 -2115.3

4171 10. 153301.6 -2134.9  
4172 8.1 153341.3 -2125.7  
4173 9.9 153400.3 -2108.6  
4174 9.1 153401.5 -2128.8  
4175 9.6 153419.0 -2120.4  
4176 9.0 153427.9 -2126.7  
4177 9.5 153529.2 -2116.2  
4178 9.1 153550.8 -2154.6  
4179 10. 153555.3 -2158.0  
4180 8.3 153628.4 -2121.2

4181 9.8 153636.4 -2137.3  
4182 9.8 153707.4 -2154.2  
4183 9.8 153712.7 -2159.7  
4184 9.5 153717.5 -2114.4  
4185 9.5 153741.5 -2120.6  
4186 9.5 153827.8 -2158.8  
4187 8.8 153840.7 -2104.7  
4188 9.4 153841.5 -2112.1  
4189 10. 153910.4 -2138.2  
4190 10. 153910.4 -2136.4

4191 9.3 153915.5 -2103.3  
4192 9.1 153927.1 -2111.7  
4193 9.7 153938.3 -2153.9  
4194 9.2 153952.5 -2143.0  
4195 9.8 154013.4 -2123.8  
4196 8.8 154038.4 -2151.2  
4197 7.0 154127.2 -2102.5  
4198 9.2 154129.1 -2108.1  
4199 9.3 154147.6 -2149.2  
4200 9.5 154151.3 -2152.5

4201 9.8 154226.5 -2143.7  
4202 9.1 154227.7 -2155.8  
4203 9.4 154231.1 -2130.1  
4204 9.3 154256.9 -2102.5  
4205 9.6 154331.4 -2112.5  
4206 9.3 154332.2 -2136.9  
4207 7.3 154339.2 -2114.4  
4208 9.7 154341.9 -2105.5  
4209 9.6 154345.4 -2111.7  
4210 9.5 154401.3 -2136.1

4211 9.5 154418.5 -2132.5  
4212 9.4 154433.8 -2114.0  
4213 9.3 154440.9 -2124.5  
4214 8.2 154451.3 -2131.9  
4215 10. 154458.6 -2123.2  
4216 10. 154503.0 -2121.8  
4217 9.0 154503.8 -2119.2  
4218 9.3 154513.3 -2109.6  
4219 9.1 154515.3 -2117.9  
4220 10. 154530.2 -2148.1

4221 9.5 154540.5 -2155.7  
4222 10. 154547.1 -2140.1  
4223 9.0 154557.8 -2108.1  
4224 9.5 154637.0 -2117.1  
4225 9.0 154643.8 -2150.3  
4226 9.8 154648.6 -2105.0  
4227 8.4 154735.3 -2106.1  
4228 8.6 154808.2 -2136.2  
4229 9.0 154803.2 -2122.7  
4230 8.5 154813.2 -2147.5

4231 9.5 154831.3 -2115.5  
4232 8.8 154837.2 -2109.3  
4233 7.0 154843.2 -2103.3  
4234 9.8 154850.1 -2151.5  
4235 9.0 154909.6 -2137.6  
4236 9.5 154914.7 -2117.0  
4237 9.6 154942.1 -2131.6  
4238 10. 154944.0 -2123.3  
4239 9.4 155013.2 -2142.6  
4240 9.5 155013.9 -2116.8

4241 9.4 155016.1 -2128.8  
4242 9.5 155043.2 -2135.7  
4243 9.1 155056.5 -2156.1  
4244 9.5 155116.6 -2147.7  
4245 9.4 155132.9 -2101.9  
4246 9.5 155136.1 -2157.3  
4247 9.1 155151.2 -2104.7  
4248 9.4 155157.9 -2154.3  
4249 9.1 155209.1 -2150.2  
4250 8.5 155235.0 -2145.3

4251 9.5 155249.8 -2125.0  
4252 9.8 155301.3 -2155.5  
4253 9.2 155303.1 -2118.2  
4254 10. 155312.1 -2129.7  
4255 7.3 155324.1 -2134.1  
4256 9.5 155335.4 -2117.1  
4257 10. 155346.2 -2145.5  
4258 9.5 155405.0 -2140.7  
4259 9.8 155443.1 -2141.1  
4260 9.6 155446.6 -2106.7

4261 9.0 155454.5 -2148.4  
4262 9.5 155512.3 -2155.3  
4263 9.3 155527.1 -2134.1  
4264 8.7 155532.9 -2130.9  
4265 9.6 155536.0 -2124.8  
4266 9.6 155637.5 -2121.4  
4267 9.3 155639.5 -2138.2  
4268 9.5 155706.5 -2153.1  
4269 7.5 155710.6 -2126.0  
4270 9.1 155729.4 -2120.1

4271 9.0 155738.0 -2110.7  
4272 9.3 155802.2 -2146.0  
4273 9.5 155802.7 -2123.0  
4274 9.1 155816.8 -2131.3  
4275 8.0 155818.3 -2128.2  
4276 8.8 155844.5 -2140.4  
4277 9.7 155859.4 -2134.1  
4278 9.7 155900.6 -2113.8  
4279 8.2 155914.0 -2101.2  
4280 9.5 155942.0 -2106.5

4281 9.4 155946.4 -2149.2  
4282 9.5 155948.5 -2114.0  
4283 30.0 160001.6 -2108.3  
4284 8.8 160042.3 -2133.5  
4285 10. 160106.7 -2107.9  
4286 9.5 160130.9 -2112.0  
4287 7.3 160146.4 -2145.8  
4288 9.5 160148.9 -2157.9  
4289 9.2 160153.3 -2150.8  
4290 9.2 160206.9 -2116.1

4291 8.8 160215.0 -2148.8  
4292 9.5 160242.7 -2103.5  
4293 10. 160253.8 -2158.4  
4294 9.5 160257.3 -2112.6  
4295 9.5 160257.9 -2134.4  
4296 9.6 160331.3 -2154.5  
4297 9.0 160334.9 -2100.1  
4298 10. 160350.6 -2117.6  
4299 9.5 160414.2 -2127.9  
4300 9.4 160427.2 -2156.3

4301 9.5 160443.8 -2150.9  
4302 9.1 160448.8 -2135.4  
4303 9.3 160501.9 -2132.4  
4304 9.5 160507.9 -2139.5  
4305 7.0 160509.4 -2101.5  
4306 9.3 160528.8 -2142.8  
4307 9.2 160534.7 -2147.5  
4308 7.5 160546.6 -2145.0  
4309 9.5 160557.9 -2144.4  
4310 9.4 160558.0 -2128.3

4311 9.7 160601.8 -2126.0  
4312 9.4 160604.3 -2131.0  
4313 9.4 160617.8 -2121.0  
4314 9.2 160632.4 -2112.8  
4315 9.3 160636.8 -2145.3  
4316 9.4 160648.8 -2124.8  
4317 8.7 160654.9 -2112.9  
4318 10. 160708.3 -2125.4  
4319 9.7 160713.1 -2134.7  
4320 9.5 160713.8 -2120.0

4321 9.5 160723.1 -2134.9  
4322 9.9 160747.0 -2149.6  
4323 9.5 160820.7 -2115.4  
4324 10. 160829.3 -2105.6  
4325 9.8 160837.4 -2107.4  
4326 9.8 160844.5 -2112.7  
4327 9.3 160855.2 -2148.2  
4328 8.4 160912.2 -2132.2  
4329 9.5 161005.4 -2126.7  
4330 8.3 161007.0 -2113.8

4331 9.4 161007.3 -2124.0  
4332 9.5 161008.5 -2122.5  
4333 9.8 161023.7 -2152.2  
4334 8.6 161056.2 -2103.2  
4335 9.6 161103.3 -2155.2  
4336 9.5 161116.7 -2127.7  
4337 9.7 161138.7 -2139.8  
4338 8.5 161154.2 -2109.2  
4339 9.1 161154.9 -2105.9  
4340 10. 161202.9 -2117.0

4341 6.8 161208.6 -2129.3  
4342 8.3 161245.5 -2145.3  
4343 9.2 161319.8 -2107.8  
4344 9.5 161334.0 -2149.5  
4345 8.3 161335.7 -2118.0  
4346 9.5 161343.1 -2118.0  
4347 9.5 161353.3 -2124.8  
4348 9.9 161443.6 -2117.6  
4349 9.8 161509.6 -2116.1  
4350 9.6 161526.6 -2130.0

4351 8.0 161617.3 -2153.6  
4352 9.4 161642.5 -2135.1  
4353 8.5 161648.6 -2120.8  
4354 9.8 161703.0 -2122.5  
4355 9.4 161709.5 -2111.8  
4356 8.8 161754.2 -2127.9  
4357 9.8 161814.3 -2113.9  
4358 9.4 161819.7 -2121.5  
4359 9.3 161832.6 -2151.0  
4360 7.5 161839.3 -2147.0

-21 4450 16h46m

4361 9.4 161944.4 -2127.0  
4362 9.8 162004.9 -2146.5  
4363 9.6 162006.1 -2126.4  
4364 9.2 162008.2 -2153.6  
4365 9.5 162012.0 -2129.6  
4366 7.8 162045.2 -2114.4  
4367 9.5 162052.5 -2139.8  
4368 8.8 162111.9 -2107.3  
4369 9.8 162114.0 -2131.8  
4370 9.8 162116.0 -2119.7

4371 9.8 162117.2 -2121.6  
4372 9.6 162117.9 -2130.4  
4373 9.4 162119.7 -2113.6  
4374 9.4 162133.9 -2145.1  
4375 9.8 162137.7 -2119.2  
4376 9.5 162155.4 -2125.5  
4377 9.2 162205.0 -2108.2  
4378 10. 162235.5 -2122.5  
4379 9.8 162246.4 -2130.0  
4380 9.0 162315.0 -2113.0

4381 5.5 162333.4 -2108.9  
4382 10. 162346.0 -2102.3  
4383 9.2 162352.7 -2126.7  
4384 9.7 162445.0 -2103.2  
4385 9.5 162456.9 -2139.4  
4386 9.0 162457.4 -2102.4  
4387 10. 162549.3 -2150.0  
4388 9.9 162646.8 -2110.4  
4389 8.2 162652.6 -2134.2  
4390 9.8 162755.5 -2119.8

4391 8.0 162900.8 -2145.4  
4392 9.8 162923.7 -2122.7  
4393 9.5 163009.3 -2109.6  
4394 8.5 163022.2 -2144.9  
4395 8.8 163114.2 -2142.7  
4396 9.0 163145.9 -2137.8  
4397 9.2 163150.6 -2152.2  
4398 9.5 163201.1 -2143.8  
4399 8.8 163221.7 -2123.1  
4400 9.7 163224.2 -2118.1

4401 9.2 163418.5 -2156.5  
4402 9.2 163421.3 -2129.7  
4403 8.0 163426.2 -2104.2  
4404 9.0 163430.1 -2124.5  
4405 9.5 163439.6 -2109.7  
4406 9.7 163512.5 -2156.0  
4407 9.8 163711.1 -2145.7  
4408 9.4 163711.2 -2125.7  
4409 9.5 163724.7 -2148.7  
4410 9.5 163741.9 -2148.5

4411 9.5 163747.0 -2157.6  
4412 9.0 163845.8 -2130.7  
4413 9.6 163847.6 -2152.7  
4414 8.8 163850.1 -2154.3  
4415 9.2 163920.7 -2153.6  
4416 9.3 163922.0 -2148.6  
4417 9.3 163932.9 -2115.6  
4418 9.0 163936.4 -2109.8  
4419 9.3 163940.3 -2151.5  
4420 8.0 163956.2 -2140.5

4421 8.5 164023.0 -2107.8  
4422 7.0 164056.8 -2135.4  
4423 9.0 164124.2 -2142.3  
4424 9.8 164151.3 -2128.2  
4425 9.8 164151.5 -2110.7  
4426 8.8 164213.7 -2157.1  
4427 9.2 164229.7 -2153.2  
4428 8.0 164252.4 -2124.0  
4429 9.5 164304.8 -2133.6  
4430 9.4 164318.4 -2105.0

4431 9.5 164320.1 -2117.6  
4432 9.5 164343.8 -2154.7  
4433 9.8 164349.9 -2140.8  
4434 9.4 164401.4 -2130.9  
4435 9.5 164404.6 -2129.3  
4436 9.4 164414.4 -2103.0  
4437 9.3 164425.4 -2150.4  
4438 8.8 164437.3 -2125.8  
4439 20.0 164441.8 -2154.6  
4440 9.1 164453.4 -2137.5

4441 9.1 164535.3 -2102.5  
4442 6.0 164559.6 -2148.4  
4443 7.3 164559.9 -2137.8  
4444 9.4 164620.8 -2122.5  
4445 8.5 164627.4 -2143.4  
4446 9.0 164644.0 -2126.3  
4447 9.5 164647.8 -2117.9  
4448 9.4 164652.9 -2128.0  
4449 6.5 164653.2 -2119.6  
4450 9.4 164656.2 -2127.8



-21 4451 16h47m

4451 9.5 164717.0 -2119.2  
4452 9.5 164728.9 -2143.9  
4453 9.2 164734.7 -2119.1  
4454 9.3 164738.8 -2148.4  
4455 9.2 164738.9 -2108.0  
4456 9.4 164750.9 -2119.1  
4457 10.1 164757.8 -2153.2  
4458 8.5 164806.5 -2133.7  
4459 9.2 164813.2 -2132.1  
4460 9.5 164848.2 -2157.6

4461 9.8 164848.6 -2146.1  
4462 8.2 164903.2 -2132.5  
4463 8.1 164920.1 -2109.5  
4464 9.3 164922.7 -2154.7  
4465 8.8 164923.6 -2123.1  
4466 9.5 164952.3 -2153.4  
4467 9.6 164955.7 -2153.8  
4468 9.8 165005.4 -2108.2  
4469 9.2 165006.8 -2132.5  
4470 9.5 165033.2 -2156.8

4471 9.0 165038.3 -2116.2  
4472 9.5 165053.6 -2135.8  
4473 9.5 165053.7 -2145.1  
4474 9.2 165100.8 -2113.4  
4475 9.1 165112.3 -2120.0  
4476 9.0 165120.6 -2155.4  
4477 9.3 165141.2 -2154.5  
4478 7.0 165150.6 -2113.8  
4479 9.4 165205.2 -2118.1  
4480 9.5 165207.0 -2123.0

4481 9.4 165246.7 -2150.2  
4482 9.6 165250.9 -2131.3  
4483 9.5 165254.2 -2136.1  
4484 9.4 165257.8 -2142.8  
4485 9.5 165300.8 -2124.9  
4486 9.7 165301.7 -2141.6  
4487 9.5 165309.6 -2149.5  
4488 9.2 165313.3 -2110.1  
4489 9.3 165321.8 -2104.7  
4490 9.5 165330.9 -2127.8

4491 9.5 165346.6 -2147.3  
4492 9.8 165436.8 -2124.2  
4493 9.0 165458.3 -2110.8  
4494 8.9 165504.1 -2111.7  
4495 9.3 165505.6 -2146.1  
4496 9.0 165508.3 -2118.4  
4497 9.8 165530.3 -2113.8  
4498 10.1 165534.6 -2144.3  
4499 9.5 165535.8 -2122.3  
4500 9.8 165546.2 -2139.3

4501 9.8 165553.3 -2122.9  
4502 8.8 165602.4 -2133.8  
4503 9.1 165627.5 -2147.7  
4504 9.5 165631.0 -2120.9  
4505 6.9 165648.8 -2151.9  
4506 9.3 165652.0 -2129.9  
4507 9.5 165700.1 -2105.4  
4508 7.2 165704.8 -2103.7  
4509 10.1 165720.8 -2142.3  
4510 9.8 165721.5 -2112.0

4511 9.0 165732.3 -2106.7  
4512 6.0 165733.1 -2121.1  
4513 8.5 165735.8 -2103.2  
4514 9.6 165756.7 -2133.7  
4515 9.5 165804.8 -2110.0  
4516 9.2 165816.3 -2139.1  
4517 9.5 165844.4 -2133.7  
4518 10.1 165847.9 -2130.7  
4519 9.8 165900.2 -2156.0  
4520 9.5 165927.8 -2107.4

4521 9.5 165949.7 -2108.5  
4522 9.5 170021.8 -2118.7  
4523 9.7 170025.2 -2132.6  
4524 9.5 170061.4 -2151.6  
4525 10.1 170101.1 -2159.0  
4526 9.6 170111.3 -2135.8  
4527 10.1 170113.9 -2116.9  
4528 9.5 170116.7 -2136.6  
4529 9.7 170135.7 -2112.8  
4530 10.1 170137.8 -2127.2

4531 9.0 170140.7 -2124.0  
4532 9.5 170142.6 -2147.3  
4533 9.9 170157.2 -2125.5  
4534 8.5 170202.2 -2148.9  
4535 9.5 170225.6 -2145.2  
4536 9.6 170229.8 -2134.0  
4537 9.5 170232.0 -2133.2  
4538 9.2 170236.7 -2102.3  
4539 8.7 170238.7 -2110.8  
4540 8.5 170244.7 -2142.4

4541 8.9 170250.5 -2159.2  
4542 9.5 170313.7 -2141.8  
4543 8.5 170324.6 -2136.1  
4544 6.8 170359.3 -2125.7  
4545 9.2 170418.7 -2120.5  
4546 9.8 170457.1 -2126.0  
4547 9.2 170524.2 -2114.7  
4548 9.8 170531.2 -2109.6  
4549 9.8 170540.7 -2102.9  
4550 8.2 170541.2 -2111.1

4551 9.5 170601.6 -2149.7  
4552 9.3 170616.1 -2153.3  
4553 8.9 170618.7 -2152.4  
4554 8.7 170624.7 -2145.3  
4555 8.2 170627.2 -2111.8  
4556 9.5 170638.2 -2112.7  
4557 8.9 170713.6 -2146.2  
4558 9.5 170722.1 -2129.9  
4559 7.0 170743.4 -2140.8  
4560 9.4 170743.8 -2134.8

4561 9.5 170806.5 -2152.9  
4562 9.5 170839.6 -2115.1  
4563 9.5 170847.1 -2123.4  
4564 9.3 170942.6 -2117.3  
4565 9.5 170954.2 -2130.9  
4566 9.2 170956.4 -2153.4  
4567 8.8 170958.2 -2125.9  
4568 9.8 171000.5 -2150.8  
4569 9.5 171004.5 -2143.9  
4570 9.7 171009.6 -2115.7

4571 9.5 171017.9 -2103.6  
4572 9.0 171032.6 -2159.7  
4573 10.1 171048.3 -2157.0  
4574 9.5 171108.4 -2147.1  
4575 10.1 171115.8 -2134.8  
4576 9.2 171116.4 -2109.6  
4577 8.7 171117.9 -2122.4  
4578 9.6 171123.6 -2158.7  
4579 10.1 171127.7 -2119.9  
4580 9.3 171142.6 -2126.5

4581 9.5 171203.6 -2110.2  
4582 9.5 171217.1 -2128.9  
4583 9.5 171217.2 -2103.1  
4584 9.8 171220.6 -2130.7  
4585 9.0 171222.1 -2114.3  
4586 9.4 171233.6 -2138.4  
4587 8.6 171241.3 -2124.3  
4588 9.0 171252.4 -2147.2  
4589 9.1 171322.6 -2108.7  
4590 10.1 171324.7 -2117.7

4591 9.5 171348.4 -2149.9  
4592 9.4 171450.0 -2148.2  
4593 9.5 171454.0 -2117.0  
4594 8.2 171455.7 -2134.2  
4595 8.8 171508.3 -2129.5  
4596 9.5 171511.3 -2156.2  
4597 6.5 171601.8 -2117.9  
4598 8.3 171629.8 -2146.4  
4599 9.7 171635.9 -2155.3  
4600 9.6 171637.7 -2157.6

4601 9.0 171654.4 -2102.3  
4602 8.5 171655.5 -2129.6  
4603 9.5 171702.6 -2129.5  
4604 8.9 171718.0 -2117.0  
4605 9.0 171742.0 -2115.3  
4606 9.3 171800.7 -2118.7  
4607 7.5 171802.5 -2120.2  
4608 8.5 171803.0 -2116.7  
4609 9.2 171812.6 -2103.2  
4610 9.5 171813.8 -2129.4

4611 9.8 171824.5 -2139.8  
4612 10.1 171846.4 -2145.2  
4613 9.5 171911.1 -2106.6  
4614 9.2 171935.4 -2153.7  
4615 9.5 171938.0 -2147.2  
4616 9.5 171940.6 -2128.2  
4617 9.0 171953.8 -2118.7  
4618 10.1 171959.6 -2128.9  
4619 9.8 172009.2 -2125.7  
4620 9.6 172027.5 -2118.1

4621 9.5 172029.9 -2152.2  
4622 9.0 172036.0 -2107.1  
4623 9.6 172040.8 -2116.4  
4624 9.3 172054.5 -2101.8  
4625 9.3 172153.9 -2150.4  
4626 8.3 172223.1 -2121.4  
4627 9.5 172231.3 -2154.7  
4628 8.8 172245.8 -2127.1  
4629 10.1 172248.4 -2145.7  
4630 9.2 172250.4 -2124.5

4631 9.3 172251.6 -2155.8  
4632 9.3 172255.3 -2106.0  
4633 8.8 172327.3 -2106.2  
4634 9.5 172327.3 -2132.8  
4635 9.8 172336.9 -2116.3  
4636 9.8 172343.0 -2118.5  
4637 9.1 172348.4 -2155.9  
4638 8.1 172356.9 -2145.5  
4639 9.3 172409.5 -2127.7  
4640 8.9 172418.5 -2142.7

4641 9.0 172428.0 -2138.6  
4642 9.2 172431.1 -2159.2  
4643 9.9 172432.9 -2157.1  
4644 8.5 172440.0 -2111.7  
4645 9.5 172451.3 -2111.3  
4646 9.8 172510.0 -2139.0  
4647 9.1 172519.6 -2104.5  
4648 9.1 172539.0 -2143.7  
4649 9.5 172542.3 -2100.8  
4650 9.5 172552.4 -2127.6

4651 9.8 172558.4 -2146.5  
4652 9.8 172604.4 -2145.7  
4653 9.7 172613.9 -2123.0  
4654 8.8 172619.3 -2106.9  
4655 9.1 172621.0 -2122.8  
4656 9.5 172625.4 -2145.9  
4657 9.4 172633.5 -2147.0  
4658 9.3 172633.9 -2147.7  
4659 6.5 172635.2 -2156.0  
4660 9.4 172703.0 -2112.2

4661 9.4 172707.5 -2139.2  
4662 9.0 172709.1 -2106.3  
4663 10.1 172714.2 -2106.2  
4664 9.8 172735.5 -2122.5  
4665 9.3 172739.4 -2151.7  
4666 9.4 172748.5 -2112.2  
4667 9.6 172821.1 -2142.0  
4668 9.4 172834.1 -2102.1  
4669 9.5 172837.6 -2137.2  
4670 9.0 172839.3 -2126.7

4671 9.4 172844.0 -2158.6  
4672 9.5 172845.3 -2105.9  
4673 9.5 172855.7 -2104.5  
4674 8.1 172902.0 -2109.9  
4675 9.2 172919.1 -2125.5  
4676 9.5 172926.0 -2159.5  
4677 8.9 172926.8 -2129.0  
4678 9.5 172939.9 -2136.6  
4679 9.1 172940.7 -2117.9  
4680 9.3 172943.1 -2125.3

4681 9.8 172953.1 -2104.5  
4682 6.3 173002.5 -2149.4  
4683 9.1 173004.0 -2120.1  
4684 9.0 173007.3 -2134.3  
4685 9.5 173015.2 -2103.3  
4686 9.5 173020.0 -2109.8  
4687 9.8 173027.4 -2117.7  
4688 9.0 173049.0 -2123.5  
4689 9.5 173051.3 -2157.2  
4690 9.5 173100.2 -2100.2

4691 9.8 173102.6 -2132.7  
4692 9.5 173105.4 -2133.2  
4693 9.7 173116.7 -2140.3  
4694 9.6 173130.3 -2101.7  
4695 9.8 173130.9 -2116.3  
4696 9.7 173134.0 -2116.6  
4697 9.4 173228.5 -2121.6  
4698 9.0 173234.4 -2111.7  
4699 9.8 173238.0 -2145.0  
4700 9.4 173243.3 -2128.4

4701 8.8 173246.5 -2151.9  
4702 9.8 173303.0 -2123.5  
4703 9.8 173307.4 -2117.1  
4704 9.8 173317.0 -2114.9  
4705 9.4 173325.3 -2151.5  
4706 9.1 173334.2 -2138.7  
4707 9.3 173337.5 -2113.1  
4708 9.7 173411.5 -2130.6  
4709 9.6 173417.5 -2107.4  
4710 9.5 173430.9 -2146.0

4711 9.3 173443.9 -2121.4  
4712 5.2 173445.0 -2136.1  
4713 9.4 173506.8 -2119.8  
4714 9.7 173535.3 -2156.4  
4715 8.7 173538.4 -2139.2  
4716 8.9 173540.0 -2123.0  
4717 9.8 173552.6 -2106.0  
4718 9.7 173555.9 -2130.1  
4719 9.5 173558.4 -2149.7  
4720 8.7 173558.8 -2157.0

-21 4810 17h51m

4721 9.5 173601.5 -2121.0  
4722 8.9 173630.2 -2138.4  
4723 9.2 173653.0 -2101.4  
4724 10.1 173658.2 -2103.5  
4725 10.1 173706.9 -2107.8  
4726 8.9 173713.6 -2101.4  
4727 8.5 173728.6 -2132.1  
4728 9.4 173732.1 -2125.7  
4729 10.1 173732.7 -2117.7  
4730 8.5 173744.5 -2112.1

4731 8.7 173758.9 -2126.9  
4732 10.1 173800.7 -2116.5  
4733 8.5 173802.0 -2104.8  
4734 9.8 173810.0 -2134.8  
4735 9.8 173829.2 -2131.4  
4736 9.8 173829.4 -2135.0  
4737 9.2 173846.6 -2108.1  
4738 9.2 173848.3 -2101.3  
4739 9.5 173918.9 -2125.7  
4740 9.5 173924.0 -2116.2

4741 9.1 173929.5 -2139.7  
4742 10.1 173933.4 -2120.1  
4743 9.6 173958.3 -2116.8  
4744 9.8 174009.4 -2103.1  
4745 9.8 174013.4 -2127.7  
4746 9.5 174029.3 -2154.9  
4747 9.1 174102.7 -2123.3  
4748 10.1 174106.3 -2107.6  
4749 9.5 174112.1 -2129.7  
4750 9.4 174142.9 -2111.5

4751 8.7 174155.8 -2152.6  
4752 8.9 174203.9 -2144.1  
4753 9.5 174206.2 -2136.3  
4754 10.1 174209.4 -2125.7  
4755 9.8 174220.8 -2113.2  
4756 9.8 174226.1 -2121.7  
4757 9.7 174236.2 -2120.8  
4758 9.5 174255.7 -2107.5  
4759 10.1 174257.0 -2121.6  
4760 8.3 174309.5 -2100.9

4761 10.1 174310.4 -2148.2  
4762 9.4 174344.5 -2140.8  
4763 9.6 174355.0 -2105.0  
4764 9.5 174355.7 -2122.2  
4765 9.5 174400.4 -2149.0  
4766 9.5 174408.4 -2129.8  
4767 9.0 174424.9 -2122.1  
4768 9.1 174446.9 -2144.0  
4769 8.5 174453.0 -2106.4  
4770 9.8 174508.4 -2124.0

4771 8.7 174555.1 -2124.4  
4772 9.5 174618.4 -2141.1  
4773 9.7 174630.8 -2127.7  
4774 9.4 174632.4 -2147.5  
4775 9.8 174641.1 -2107.9  
4776 10.1 174646.2 -2102.3  
4777 9.7 174706.9 -2126.7  
4778 9.3 174707.9 -2122.9  
4779 7.2 174758.7 -2155.4  
4780 9.6 174738.7 -2147.7

4781 9.2 174743.1 -2125.0  
4782 9.5 174746.0 -2108.5  
4783 9.5 174746.4 -2113.4  
4784 9.5 174756.1 -2144.2  
4785 9.5 174756.2 -2136.0  
4786 9.5 174821.0 -2108.3  
4787 9.5 174821.9 -2110.4  
4788 9.8 174838.6 -2134.2  
4789 9.5 174847.4 -2121.0  
4790 9.6 174857.2 -2156.1

4791 9.3 174857.3 -2141.9  
4792 9.5 174910.7 -2140.3  
4793 9.1 174930.0 -2158.8  
4794 9.4 174944.7 -2114.8  
4795 9.5 174947.4 -2150.0  
4796 9.1 175002.6 -2145.5  
4797 9.7 175013.4 -2107.5  
4798 9.5 175017.6 -2107.6  
4799 9.7 175019.6 -2112.2  
4800 9.5 175020.7 -2142.0

4801 9.7 175023.5 -2122.0  
4802 9.3 175029.9 -2147.4  
4803 10.1 175037.0 -2125.1  
4804 9.7 175040.2 -2108.5  
4805 9.4 175047.8 -2116.0  
4806 8.0 175052.0 -2101.9  
4807 9.8 175058.7 -2154.3  
4808 9.6 175100.4 -2131.4  
4809 9.8 175112.9 -2110.2  
4810 9.0 175124.8 -2143.1



-21 4811 17h51m

-21 5170 18h44m

4811 10. 175129.5 -2109.2  
4812 9.1 175130.7 -2108.0  
4813 9.0 175141.0 -2127.1  
4814 9.5 175154.4 -2125.0  
4815 10. 175157.5 -2159.8  
4816 9.5 175220.9 -2116.6  
4817 9.8 175249.9 -2108.1  
4818 9.4 175303.4 -2107.7  
4819 9.5 175306.3 -2132.3  
4820 9.8 175311.5 -2107.5

4901 10. 180403.9 -2145.4  
4902 9.8 180426.8 -2122.4  
4903 8.8 180431.8 -2144.7  
4904 8.5 180431.9 -2117.3  
4905 9.9 180455.0 -2103.9  
4906 9.4 180456.9 -2118.6  
4907 9.5 180503.5 -2104.8  
4908 4.0 180506.1 -2105.2  
4909 9.0 180509.0 -2105.6  
4910 9.0 180512.3 -2151.1

4991 9.5 181655.9 -2152.1  
4992 8.5 181659.4 -2106.2  
4993 9.4 181703.1 -2157.3  
4994 9.9 181707.4 -2147.8  
4995 9.1 181716.5 -2136.4  
4996 9.5 181729.0 -2109.3  
4997 9.4 181735.4 -2132.9  
4998 9.5 181739.7 -2116.0  
4999 9.8 181740.0 -2107.3  
5000 9.5 181745.1 -2123.2

5081 6.0 183014.9 -2109.9  
5082 9.3 183015.7 -2116.1  
5083 10. 183018.5 -2154.4  
5084 9.4 183020.8 -2109.6  
5085 9.0 183028.9 -2158.5  
5086 9.5 183030.5 -2124.6  
5087 9.4 183036.0 -2153.3  
5088 8.8 183049.3 -2108.6  
5089 8.9 183059.4 -2101.9  
5090 8.2 183124.0 -2105.4

4821 9.1 175328.4 -2145.0  
4822 9.5 175329.9 -2132.6  
4823 8.6 175338.1 -2157.3  
4824 10. 175346.4 -2146.3  
4825 9.7 175355.1 -2158.4  
4826 8.0 175357.5 -2130.0  
4827 9.7 175402.2 -2159.4  
4828 9.5 175407.9 -2158.9  
4829 9.5 175418.7 -2129.2  
4830 9.8 175428.4 -2130.3

4911 9.8 180514.9 -2111.2  
4912 9.8 180515.5 -2125.8  
4913 9.8 180530.8 -2131.1  
4914 9.7 180531.4 -2140.0  
4915 9.8 180533.4 -2124.8  
4916 6.3 180533.9 -2144.8  
4917 9.1 180557.6 -2145.8  
4918 9.3 180557.6 -2149.5  
4919 9.1 180558.4 -2152.5  
4920 9.2 180601.2 -2140.1

5001 9.5 181749.6 -2127.2  
5002 9.2 181755.4 -2151.9  
5003 9.5 181756.7 -2120.3  
5004 9.2 181809.0 -2136.0  
5005 9.0 181837.9 -2145.0  
5006 9.5 181859.6 -2148.7  
5007 9.5 181859.7 -2144.6  
5008 9.5 181904.4 -2124.4  
5009 9.8 181913.4 -2127.1  
5010 8.5 181918.2 -2140.2

5091 10. 183125.0 -2120.7  
5092 9.2 183127.7 -2120.6  
5093 9.5 183128.6 -2128.1  
5094 9.5 183148.9 -2134.9  
5095 9.8 183150.1 -2114.6  
5096 8.5 183158.3 -2136.8  
5097 8.5 183201.2 -2147.1  
5098 9.2 183205.1 -2115.2  
5099 9.4 183206.4 -2117.5  
5100 9.5 183210.6 -2110.8

4831 9.8 175435.7 -2156.0  
4832 9.2 175505.7 -2150.1  
4833 9.3 175511.3 -2151.5  
4834 9.8 175517.1 -2149.7  
4835 9.5 175520.2 -2109.4  
4836 9.3 175542.8 -2117.0  
4837 9.5 175609.8 -2154.7  
4838 9.8 175631.3 -2129.1  
4839 8.5 175640.4 -2140.0  
4840 9.5 175645.3 -2156.3

4921 9.5 180619.3 -2122.9  
4922 9.8 180625.1 -2138.9  
4923 9.8 180644.3 -2133.0  
4924 9.5 180649.6 -2156.3  
4925 9.5 180715.5 -2134.1  
4926 9.8 180728.6 -2153.0  
4927 9.8 180731.4 -2172.2  
4928 9.7 180732.3 -2157.5  
4929 10. 180741.2 -2100.1  
4930 9.5 180748.3 -2148.1

5011 9.7 181925.7 -2134.5  
5012 9.0 181926.6 -2126.1  
5013 8.7 181928.9 -2119.0  
5014 9.5 181946.2 -2106.4  
5015 8.8 181946.6 -2124.9  
5016 9.3 181951.4 -2110.0  
5017 9.2 182005.7 -2143.5  
5018 9.3 182008.7 -2105.0  
5019 8.5 182010.8 -2127.1  
5020 9.2 182018.2 -2136.2

5101 9.9 183239.3 -2126.8  
5102 9.6 183245.4 -2127.5  
5103 9.5 183307.8 -2103.1  
5104 8.3 183318.7 -2127.1  
5105 10. 183328.2 -2133.4  
5106 9.6 183342.4 -2110.9  
5107 9.5 183350.3 -2112.6  
5108 8.8 183353.8 -2117.5  
5109 9.1 183404.3 -2112.0  
5110 9.1 183416.2 -2125.9

4841 9.4 175647.4 -2156.6  
4842 8.5 175647.8 -2108.7  
4843 9.3 175649.1 -2133.0  
4844 9.2 175649.3 -2129.8  
4845 9.5 175704.4 -2131.5  
4846 9.4 175721.2 -2158.9  
4847 9.5 175723.1 -2120.1  
4848 8.8 175729.0 -2127.9  
4849 10. 175739.5 -2140.3  
4850 10. 175746.5 -2140.3

4931 9.7 180748.5 -2126.2  
4932 9.8 180801.8 -2159.3  
4933 9.3 180814.3 -2156.4  
4934 9.3 180824.0 -2158.2  
4935 9.8 180855.1 -2107.1  
4936 9.7 180856.9 -2111.2  
4937 9.5 180919.3 -2152.6  
4938 9.5 180929.5 -2118.1  
4939 9.9 180938.4 -2146.0  
4940 9.6 180939.2 -2137.3

5021 9.7 182038.2 -2155.5  
5022 8.5 182045.7 -2143.3  
5023 9.6 182047.4 -2133.8  
5024 9.6 182104.2 -2149.2  
5025 7.5 182111.8 -2102.4  
5026 9.6 182138.3 -2117.0  
5027 8.0 182152.3 -2150.6  
5028 9.5 182205.6 -2129.0  
5029 8.7 182218.0 -2136.9  
5030 9.3 182234.0 -2152.4

5111 9.6 183422.1 -2125.9  
5112 9.5 183422.8 -2152.8  
5113 9.4 183422.8 -2109.2  
5114 9.3 183430.8 -2111.8  
5115 9.8 183433.4 -2135.6  
5116 9.9 183437.3 -2121.9  
5117 8.8 183442.4 -2127.5  
5118 7.5 183453.9 -2103.3  
5119 10. 183453.6 -2138.9  
5120 9.2 183514.3 -2113.1

4851 9.4 175755.4 -2107.2  
4852 8.8 175806.5 -2103.9  
4853 8.2 175809.3 -2130.9  
4854 9.8 175827.4 -2109.2  
4855 6.4 175829.1 -2126.7  
4856 9.2 175832.6 -2115.3  
4857 9.3 175837.8 -2159.6  
4858 8.2 175840.1 -2112.5  
4859 9.3 175849.9 -2140.5  
4860 9.8 175853.4 -2114.6

4941 9.8 180941.9 -2148.6  
4942 9.2 181005.7 -2117.5  
4943 8.9 181011.0 -2130.6  
4944 9.5 181017.0 -2105.7  
4945 9.3 181017.3 -2121.2  
4946 9.2 181018.5 -2135.9  
4947 9.4 181025.3 -2122.2  
4948 9.8 181041.9 -2120.5  
4949 9.5 181103.1 -2154.7  
4950 9.2 181109.3 -2147.1

5031 9.5 182243.5 -2134.5  
5032 8.5 182248.2 -2120.8  
5033 10. 182255.1 -2149.6  
5034 9.5 182303.2 -2135.0  
5035 9.8 182306.4 -2149.8  
5036 9.2 182310.8 -2151.1  
5037 9.3 182335.1 -2148.9  
5038 9.5 182340.7 -2117.4  
5039 9.5 182344.1 -2127.7  
5040 9.5 182354.9 -2191.1

5121 9.5 183518.9 -2150.4  
5122 9.7 183539.3 -2158.4  
5123 10. 183540.5 -2146.6  
5124 10. 183541.4 -2123.3  
5125 9.5 183541.7 -2104.9  
5126 8.2 183558.9 -2106.5  
5127 9.1 183615.9 -2130.5  
5128 9.0 183621.8 -2140.2  
5129 9.0 183622.2 -2153.7  
5130 6.8 183638.9 -2108.4

4861 8.7 175858.9 -2152.2  
4862 9.5 175914.0 -2119.8  
4863 9.8 175941.8 -2123.8  
4864 7.8 175947.9 -2115.7  
4865 9.1 175950.4 -2139.0  
4866 6.8 175956.0 -2127.8  
4867 9.5 180004.4 -2115.6  
4868 9.4 180010.9 -2117.3  
4869 8.7 180013.8 -2125.0  
4870 9.6 180019.3 -2145.0

4951 9.4 181110.4 -2139.7  
4952 9.2 181127.2 -2133.3  
4953 9.1 181130.4 -2120.5  
4954 9.3 181135.5 -2132.4  
4955 9.5 181156.9 -2126.4  
4956 9.1 181206.0 -2101.0  
4957 9.6 181211.4 -2101.6  
4958 9.7 181226.8 -2159.2  
4959 9.5 181227.6 -2152.3  
4960 9.2 181233.9 -2142.7

5041 9.0 182356.3 -2104.4  
5042 9.9 182422.1 -2117.0  
5043 9.8 182428.6 -2118.7  
5044 10. 182432.6 -2156.8  
5045 10. 182433.6 -2163.5  
5046 9.9 182439.2 -2124.0  
5047 9.5 182443.0 -2108.0  
5048 8.8 182455.1 -2120.3  
5049 9.4 182520.2 -2124.7  
5050 9.5 182526.7 -2132.7

5131 6.8 183638.9 -2108.4  
5132 9.3 183707.9 -2109.3  
5133 9.1 183723.8 -2120.0  
5134 9.7 183802.5 -2152.5  
5135 9.5 183810.1 -2140.2  
5136 9.9 183815.4 -2143.0  
5137 9.2 183842.4 -2117.3  
5138 8.8 183918.4 -2107.1  
5139 9.4 183924.1 -2126.4  
5140 9.5 183945.0 -2151.6

4871 9.0 180023.0 -2125.3  
4872 9.5 180024.1 -2154.0  
4873 8.9 180041.8 -2131.6  
4874 9.7 180045.9 -2118.4  
4875 9.0 180047.0 -2135.4  
4876 9.5 180051.5 -2134.3  
4877 9.3 180113.8 -2158.3  
4878 9.5 180127.4 -2104.2  
4879 9.0 180133.3 -2120.5  
4880 9.8 180139.4 -2140.3

4961 9.1 181236.7 -2125.9  
4962 9.3 181316.4 -2146.2  
4963 9.1 181318.5 -2108.9  
4964 9.4 181322.1 -2126.2  
4965 9.8 181327.4 -2145.7  
4966 9.0 181348.4 -2126.4  
4967 9.5 181348.8 -2103.3  
4968 9.3 181357.5 -2109.0  
4969 8.5 181403.4 -2138.7  
4970 9.8 181409.3 -2148.5

5051 9.8 182532.5 -2107.8  
5052 9.0 182538.4 -2139.3  
5053 10. 182550.6 -2155.6  
5054 9.7 182551.2 -2132.3  
5055 9.4 182554.8 -2111.2  
5056 9.1 182628.6 -2147.0  
5057 9.1 182630.9 -2128.1  
5058 9.5 182631.8 -2153.2  
5059 9.8 182645.4 -2105.5  
5060 9.0 182647.7 -2120.3

5141 9.1 183948.8 -2130.1  
5142 9.4 183956.4 -2117.8  
5143 10. 183956.7 -2101.9  
5144 9.4 183958.1 -2144.3  
5145 9.7 184004.5 -2121.4  
5146 9.8 184011.2 -2135.7  
5147 10. 184012.8 -2158.0  
5148 9.8 184031.7 -2152.3  
5149 9.5 184039.9 -2126.8  
5150 9.8 184050.8 -2103.3

4881 9.8 180141.1 -2116.1  
4882 9.4 180141.7 -2117.8  
4883 9.5 180206.3 -2156.8  
4884 8.5 180206.6 -2120.0  
4885 8.7 180213.4 -2113.6  
4886 9.8 180218.9 -2102.3  
4887 9.5 180221.1 -2128.0  
4888 9.7 180228.9 -2114.7  
4889 9.7 180247.8 -2122.5  
4890 9.6 180254.4 -2111.6

4971 10. 181430.9 -2143.2  
4972 9.6 181449.3 -2151.2  
4973 9.5 181450.8 -2138.1  
4974 8.3 181452.7 -2143.8  
4975 9.4 181456.3 -2136.8  
4976 9.0 181503.6 -2159.2  
4977 9.5 181509.1 -2121.9  
4978 9.5 181525.1 -2153.1  
4979 9.4 181534.4 -2112.5  
4980 9.2 181549.1 -2158.5

5061 9.4 182704.3 -2108.5  
5062 9.4 182724.5 -2133.4  
5063 9.4 182740.0 -2128.9  
5064 9.3 182744.6 -2148.2  
5065 9.5 182751.6 -2148.8  
5066 9.4 182754.7 -2141.5  
5067 9.2 182807.8 -2107.0  
5068 9.2 182818.9 -2109.4  
5069 9.0 182819.5 -2145.8  
5070 8.5 182846.8 -2136.5

5151 9.5 184058.0 -2103.0  
5152 9.5 184101.0 -2159.7  
5153 9.5 184111.5 -2158.7  
5154 9.5 184139.8 -2108.6  
5155 9.9 184140.9 -2120.2  
5156 9.5 184152.6 -2111.9  
5157 9.8 184209.0 -2120.8  
5158 9.4 184242.9 -2117.9  
5159 9.3 184245.8 -2152.7  
5160 9.2 184251.0 -2137.0

4891 9.3 180305.5 -2127.7  
4892 9.6 180308.1 -2113.0  
4893 9.8 180326.9 -2107.4  
4894 9.2 180332.6 -2115.7  
4895 9.6 180338.5 -2128.3  
4896 9.5 180340.1 -2109.4  
4897 9.4 180340.2 -2108.3  
4898 9.6 180347.4 -2129.9  
4899 9.8 180347.8 -2120.6  
4900 8.7 180359.3 -2101.3

4981 9.2 181552.6 -2155.1  
4982 9.6 181557.8 -2152.0  
4983 9.8 181609.6 -2133.1  
4984 9.6 181613.5 -2140.0  
4985 9.5 181615.9 -2111.6  
4986 10. 181622.6 -2133.4  
4987 9.4 181630.7 -2128.4  
4988 10. 181632.5 -2138.3  
4989 9.1 181637.9 -2148.6  
4990 9.5 181654.2 -2144.0

5071 8.3 182849.2 -2149.2  
5072 9.5 182850.3 -2123.0  
5073 9.7 182856.7 -2125.6  
5074 8.8 182858.7 -2131.7  
5075 8.8 182911.1 -2152.4  
5076 6.3 182914.0 -2130.8  
5077 9.5 182932.2 -2147.0  
5078 9.1 182943.0 -2133.5  
5079 8.9 182946.8 -2117.6  
5080 9.4 182954.3 -2156.9

5161 9.0 184258.0 -2104.1  
5162 9.1 184303.3 -2150.8  
5163 9.0 184311.0 -2141.5  
5164 8.8 184311.1 -2101.7  
5165 9.4 184315.2 -2152.2  
5166 9.0 184341.2 -2103.5  
5167 9.4 184344.0 -2106.4  
5168 9.3 184350.7 -2135.6  
5169 9.4 184407.5 -2135.4  
5170 8.5 184438.8 -2154.0



-21 5171 18h44m

5171 9.1 184443.5 -2129.7  
5172 10. 184450.4 -2159.2  
5173 8.3 184459.4 -2113.3  
5174 9.9 184505.0 -2139.5  
5175 9.4 184517.7 -2138.9  
5176 6.2 184520.2 -2131.8  
5177 8.5 184530.0 -2105.8  
5178 9.1 184545.0 -2128.7  
5179 9.5 184547.5 -2140.3  
5180 9.5 184548.3 -2132.1

5181 9.5 184605.1 -2114.3  
5182 9.5 184612.8 -2133.4  
5183 8.8 184640.0 -2101.2  
5184 8.8 184646.4 -2105.1  
5185 9.4 184701.5 -2139.7  
5186 9.4 184701.9 -2103.7  
5187 9.6 184702.5 -2138.4  
5188 9.5 184718.0 -2112.0  
5189 10. 184727.3 -2138.0  
5190 9.5 184731.4 -2157.0

5191 9.2 184737.4 -2139.5  
5192 9.7 184745.3 -2159.9  
5193 9.3 184748.5 -2109.2  
5194 9.7 184755.0 -2103.3  
5195 9.4 184803.4 -2119.9  
5196 9.4 184827.3 -2129.9  
5197 9.4 184827.5 -2127.7  
5198 9.5 184840.9 -2111.2  
5199 9.5 184854.0 -2157.3  
5200 8.5 184858.0 -2120.1

5201 4.0 184904.3 -2116.8  
5202 8.5 184906.4 -2155.2  
5203 9.4 184917.9 -2158.1  
5204 9.1 184932.8 -2146.1  
5205 9.5 185000.9 -2127.3  
5206 9.5 185022.2 -2115.9  
5207 8.3 185035.1 -2125.2  
5208 9.3 185042.3 -2131.7  
5209 9.2 185045.1 -2123.9  
5210 9.3 185110.8 -2156.3

5211 10. 185126.0 -2105.1  
5212 9.7 185127.0 -2112.4  
5213 9.5 185129.4 -2101.9  
5214 9.4 185131.1 -2156.7  
5215 8.8 185202.5 -2135.1  
5216 9.1 185208.2 -2145.6  
5217 9.8 185211.1 -2129.6  
5218 9.8 185213.4 -2138.8  
5219 9.5 185226.2 -2109.7  
5220 9.8 185259.7 -2152.8

5221 8.8 185308.7 -2103.2  
5222 9.4 185310.0 -2153.9  
5223 9.5 185331.1 -2151.3  
5224 9.5 185339.4 -2128.4  
5225 9.5 185355.1 -2125.1  
5226 9.5 185355.2 -2121.8  
5227 9.5 185432.2 -2118.0  
5228 9.5 185435.7 -2144.9  
5229 9.0 185450.8 -2112.6  
5230 9.5 185526.5 -2147.5

5231 8.7 185532.4 -2100.5  
5232 9.5 185538.4 -2101.9  
5233 7.0 185539.7 -2144.2  
5234 9.5 185551.8 -2122.7  
5235 9.0 185552.8 -2140.7  
5236 9.7 185555.8 -2152.4  
5237 4.2 185555.9 -2157.0  
5238 8.8 185601.3 -2113.8  
5239 9.1 185612.8 -2112.7  
5240 9.4 185614.2 -2100.2

5241 9.4 185616.0 -2123.0  
5242 7.8 185627.3 -2107.4  
5243 8.7 185633.8 -2117.6  
5244 9.5 185648.3 -2122.3  
5245 9.5 185657.2 -2114.8  
5246 8.5 185708.3 -2107.5  
5247 9.8 185714.3 -2101.9  
5248 9.4 185726.2 -2123.9  
5249 9.8 185729.6 -2115.5  
5250 10. 185732.1 -2109.2

5251 9.1 185750.4 -2154.9  
5252 9.5 185802.8 -2123.5  
5253 9.3 185805.6 -2130.0  
5254 9.5 185820.8 -2110.5  
5255 8.5 185821.1 -2138.6  
5256 9.1 185835.4 -2132.1  
5257 8.5 185844.7 -2150.1  
5258 9.3 185852.8 -2140.8  
5259 9.5 185901.7 -2118.1  
5260 8.2 185907.7 -2127.8

5261 8.5 185920.6 -2154.7  
5262 9.0 185930.9 -2102.5  
5263 9.5 185932.2 -2117.4  
5264 9.5 185929.1 -2127.6  
5265 9.8 185953.7 -2101.7  
5266 7.8 185956.9 -2112.8  
5267 8.7 185959.8 -2127.9  
5268 9.0 186014.4 -2107.2  
5269 9.5 190022.8 -2142.4  
5270 9.5 190036.7 -2107.4

5271 9.1 190043.3 -2122.7  
5272 9.5 190044.2 -2113.9  
5273 8.5 190101.1 -2141.5  
5274 9.2 190104.9 -2138.9  
5275 3.0 190109.1 -2114.6  
5276 11.7 190145.3 -2132.5  
5277 4.5 190152.2 -2116.4  
5278 6.7 190156.4 -2154.3  
5279 6.2 190157.4 -2136.4  
5280 9.5 190208.7 -2127.4

5281 9.1 190214.8 -2126.5  
5282 9.5 190228.3 -2166.1  
5283 9.4 190238.1 -2155.0  
5284 9.4 190239.4 -2102.0  
5285 9.5 190242.0 -2113.5  
5286 8.9 190245.2 -2120.4  
5287 9.5 190247.1 -2129.8  
5288 10. 190255.8 -2148.5  
5289 10. 190305.7 -2157.1  
5290 8.0 190323.4 -2119.2

5291 9.6 190339.2 -2124.8  
5292 7.7 190347.9 -2153.6  
5293 9.8 190349.8 -2116.3  
5294 9.5 190359.4 -2158.0  
5295 9.9 190359.5 -2156.3  
5296 9.5 190410.3 -2105.4  
5297 8.3 190435.9 -2126.1  
5298 9.4 190426.4 -2117.9  
5299 9.3 190434.5 -2121.7  
5300 9.6 190455.7 -2130.5

5301 8.8 190521.6 -2126.8  
5302 10. 190544.3 -2123.6  
5303 9.1 190559.4 -2128.8  
5304 9.4 190604.2 -2152.7  
5305 9.1 190613.8 -2127.7  
5306 9.4 190628.2 -2159.0  
5307 8.2 190646.9 -2115.7  
5308 9.4 190705.3 -2118.1  
5309 9.5 190710.8 -2149.5  
5310 9.5 190713.4 -2133.0

5311 9.5 190719.7 -2154.5  
5312 8.6 190726.9 -2112.0  
5313 9.5 190734.0 -2145.0  
5314 8.5 190735.4 -2133.0  
5315 8.8 190741.7 -2111.5  
5316 9.5 190747.1 -2132.3  
5317 9.5 190749.8 -2102.5  
5318 9.4 190752.0 -2136.1  
5319 9.1 190757.8 -2110.7  
5320 9.5 190758.1 -2132.8

5321 9.1 190810.5 -2101.6  
5322 9.3 190810.6 -2142.3  
5323 9.5 190814.9 -2107.5  
5324 9.3 190817.8 -2144.5  
5325 8.6 190818.9 -2145.0  
5326 8.0 190828.3 -2119.4  
5327 9.5 190838.5 -2140.2  
5328 6.7 190850.3 -2142.4  
5329 10. 190852.6 -2154.7  
5330 9.0 190900.8 -2152.0

5331 9.1 190911.8 -2125.4  
5332 8.3 190917.1 -2146.6  
5333 9.4 190917.3 -2123.6  
5334 9.5 190928.5 -2138.8  
5335 9.4 191004.7 -2144.2  
5336 9.1 191009.8 -2140.2  
5337 9.0 191015.3 -2157.5  
5338 9.9 191021.4 -2133.2  
5339 9.8 191037.9 -2147.5  
5340 8.3 191041.0 -2108.9

5341 9.5 191047.4 -2114.1  
5342 8.5 191055.1 -2126.3  
5343 9.5 191114.4 -2134.5  
5344 9.5 191115.8 -2124.8  
5345 9.5 191125.9 -2145.1  
5346 9.4 191137.8 -2154.4  
5347 8.8 191151.2 -2131.4  
5348 9.4 191200.5 -2113.9  
5349 9.5 191204.6 -2102.5  
5350 9.4 191211.8 -2156.4

5351 8.3 191215.2 -2148.2  
5352 10. 191223.0 -2113.7  
5353 9.8 191236.5 -2127.1  
5354 9.6 191237.0 -2130.9  
5355 9.4 191239.8 -2150.1  
5356 9.9 191246.8 -2135.3  
5357 9.6 191248.0 -2126.5  
5358 9.8 191253.6 -2142.9  
5359 8.5 191314.0 -2154.7  
5360 9.8 191324.6 -2105.2

5361 9.5 191335.1 -2127.6  
5362 9.5 191336.0 -2146.7  
5363 9.6 191342.0 -2153.1  
5364 9.6 191350.9 -2151.2  
5365 9.5 191401.7 -2117.7  
5366 9.5 191409.5 -2102.5  
5367 9.1 191423.5 -2103.8  
5368 9.5 191434.5 -2149.6  
5369 9.2 191434.8 -2131.1  
5370 9.5 191441.6 -2135.3

5371 9.8 191502.8 -2134.3  
5372 9.5 191509.1 -2130.2  
5373 9.5 191528.4 -2119.4  
5374 9.5 191531.4 -2123.0  
5375 9.4 191537.9 -2134.5  
5376 9.8 191545.5 -2105.7  
5377 9.5 191551.5 -2130.5  
5378 9.5 191552.4 -2140.7  
5379 9.5 191605.6 -2108.2  
5380 9.5 191615.7 -2125.4

5381 9.4 191635.3 -2135.5  
5382 10. 191651.2 -2133.0  
5383 9.5 191712.0 -2113.4  
5384 9.3 191720.7 -2107.5  
5385 9.6 191724.4 -2153.6  
5386 8.2 191729.2 -2149.4  
5387 9.5 191745.9 -2121.6  
5388 7.5 191751.3 -2131.7  
5389 9.1 191805.2 -2158.5  
5390 6.3 191828.4 -2154.5

5391 9.5 191831.3 -2111.1  
5392 9.4 191855.2 -2127.0  
5393 9.5 191901.4 -2132.0  
5394 9.0 191908.5 -2100.9  
5395 9.3 191917.5 -2152.9  
5396 9.2 191922.6 -2126.1  
5397 10. 191930.4 -2129.9  
5398 9.5 191942.6 -2125.9  
5399 9.2 191958.6 -2117.0  
5400 9.9 192005.7 -2106.0

5401 9.8 192007.6 -2119.3  
5402 9.5 192014.9 -2111.8  
5403 9.5 192044.2 -2132.5  
5404 9.1 192046.7 -2147.1  
5405 8.2 192106.4 -2138.0  
5406 9.5 192117.4 -2158.1  
5407 9.4 192140.1 -2156.7  
5408 8.0 192145.2 -2107.9  
5409 9.8 192150.6 -2112.5  
5410 6.5 192216.8 -2136.1

5411 9.5 192219.5 -2119.8  
5412 8.0 192223.7 -2144.0  
5413 9.8 192225.4 -2130.0  
5414 8.8 192226.5 -2135.8  
5415 9.5 192234.1 -2116.0  
5416 8.3 192241.8 -2155.8  
5417 9.4 192242.1 -2130.4  
5418 9.8 192245.8 -2164.2  
5419 7.8 192250.3 -2120.2  
5420 8.3 192252.2 -2156.2

5421 8.8 192256.9 -2110.8  
5422 9.3 192305.5 -2122.9  
5423 9.8 192316.0 -2133.1  
5424 9.9 192318.7 -2103.5  
5425 7.3 192338.2 -2149.0  
5426 9.5 192343.0 -2152.1  
5427 9.4 192359.1 -2159.9  
5428 9.5 192414.7 -2108.2  
5429 9.5 192423.9 -2152.1  
5430 10. 192426.6 -2159.2

5431 9.8 192442.0 -2127.2  
5432 9.8 192452.0 -2125.2  
5433 10. 192516.4 -2134.7  
5434 9.4 192518.2 -2118.3  
5435 9.0 192525.3 -2114.5  
5436 9.5 192526.5 -2138.6  
5437 9.0 192528.1 -2150.9  
5438 9.3 192543.7 -2115.9  
5439 9.8 192607.8 -2148.5  
5440 9.5 192614.8 -2105.9

-21 5530 19h40m

5441 9.5 192617.0 -2140.4  
5442 9.4 192618.1 -2134.4  
5443 10. 192621.7 -2116.3  
5444 6.8 192700.3 -2105.1  
5445 9.1 192709.4 -2125.6  
5446 9.1 192712.2 -2142.0  
5447 8.8 192716.5 -2114.1  
5448 9.2 192732.3 -2133.3  
5449 9.5 192749.7 -2158.5  
5450 9.0 192821.2 -2148.7

5451 8.3 192827.3 -2157.1  
5452 9.4 192833.6 -2151.4  
5453 10. 192834.6 -2105.5  
5454 9.3 192836.5 -2137.4  
5455 9.5 192848.7 -2113.2  
5456 9.7 192859.2 -2113.6  
5457 9.5 192900.0 -2110.0  
5458 9.4 192905.3 -2113.9  
5459 9.0 192911.8 -2107.7  
5460 9.8 192932.3 -2132.3

5461 9.7 192935.1 -2119.8  
5462 9.3 192936.7 -2139.4  
5463 10. 193003.6 -2129.4  
5464 9.8 193006.7 -2122.8  
5465 9.5 193007.0 -2133.4  
5466 9.5 193028.8 -2129.1  
5467 9.7 193046.4 -2102.6  
5468 9.4 193054.1 -2153.7  
5469 10. 193059.8 -2138.5  
5470 9.1 193103.1 -2128.8

5471 8.7 193106.9 -2155.9  
5472 8.8 193117.1 -2139.6  
5473 8.5 193118.5 -2119.8  
5474 9.3 193127.1 -2157.2  
5475 9.8 193141.7 -2121.5  
5476 8.0 193142.2 -2137.8  
5477 8.3 193159.0 -2134.8  
5478 10. 193211.8 -2116.8  
5479 8.0 193215.4 -2110.0  
5480 9.6 193227.9 -2154.7

5481 9.5 193234.4 -2156.1  
5482 8.5 193309.1 -2153.4  
5483 9.8 193310.0 -2149.4  
5484 8.7 193315.8 -2110.3  
5485 9.5 193317.8 -2110.7  
5486 9.1 193320.3 -2111.8  
5487 9.4 193320.9 -2101.8  
5488 9.3 193335.3 -2158.5  
5489 9.0 193340.1 -2130.0  
5490 10. 193352.5 -2148.4

5491 9.5 193401.4 -2104.5  
5492 9.5 193416.0 -2145.0  
5493 9.5 193421.1 -2133.3  
5494 8.3 193422.8 -2149.1  
5495 9.3 193427.3 -2142.1  
5496 9.2 193435.5 -2100.7  
5497 9.9 193451.2 -2124.2  
5498 9.0 193511.5 -2130.4  
5499 9.4 193528.6 -2118.4  
5500 8.3 193554.9 -2107.9

5501 9.4 193602.3 -2126.2  
5502 10. 193607.9 -2153.9  
5503 9.0 193615.8 -2109.9  
5504 9.8 193703.9 -2145.4  
5505 9.7 193704.9 -2129.5  
5506 9.5 193718.9 -2102.8  
5507 9.0 193730.4 -2117.5  
5508 9.5 193736.8 -2105.0  
5509 9.5 193745.7 -2149.5  
5510 7.3 193755.3 -2152.4

5511 10. 193758.9 -2103.6  
5512 9.3 193804.3 -2155.8  
5513 8.5 193805.1 -2115.7  
5514 9.3 193815.3 -2116.4  
5515 9.3 193815.3 -2132.2  
5516 9.5 193815.9 -2113.4  
5517 9.1 193849.5 -2159.7  
5518 9.3 193857.6 -2145.0  
5519 9.8 193909.4 -2149.8  
5520 9.9 193922.7 -2132.7

5521 9.4 193925.0 -2141.9  
5522 6.8 193927.3 -2118.8  
5523 8.8 193931.3 -2129.4  
5524 9.5 193937.4 -2149.2  
5525 9.5 193939.2 -2141.0  
5526 9.4 193940.2 -2157.7  
5527 8.6 193945.6 -2102.4  
5528 9.4 194003.3 -2130.9  
5529 9.6 194007.4 -2137.0  
5530 9.6 194011.9 -2150.2



-21 5531 19h40m

5531 9.8 194023.8 -2122.5  
5532 9.4 194033.9 -2156.7  
5533 9.1 194044.1 -2105.1  
5534 9.5 194049.0 -2131.0  
5535 9.5 194057.9 -2117.5  
5536 9.1 194101.4 -2121.0  
5537 10.1 194105.1 -2153.1  
5538 9.1 194108.2 -2143.7  
5539 8.6 194112.3 -2106.2  
5540 9.0 194134.3 -2153.3  
  
5541 9.6 194139.2 -2105.1  
5542 8.5 194145.5 -2159.9  
5543 9.8 194205.3 -2102.0  
5544 9.5 194212.1 -2167.0  
5545 9.3 194235.8 -2134.6  
5546 8.5 194248.0 -2130.5  
5547 10.1 194303.0 -2100.6  
5548 9.7 194321.9 -2137.5  
5549 9.7 194323.4 -2127.0  
5550 9.8 194337.3 -2101.6  
  
5551 9.8 194340.0 -2115.7  
5552 9.8 194341.1 -2106.1  
5553 9.4 194400.2 -2101.3  
5554 8.8 194404.6 -2142.6  
5555 9.2 194436.4 -2125.0  
5556 8.2 194419.1 -2126.0  
5557 9.2 194422.3 -2104.1  
5558 9.5 194424.7 -2122.8  
5559 9.8 194427.5 -2128.8  
5560 9.0 194434.1 -2147.9  
  
5561 9.2 194505.4 -2120.2  
5562 9.5 194505.9 -2138.7  
5563 10.1 194526.9 -2124.4  
5564 9.1 194534.8 -2143.8  
5565 9.6 194547.5 -2159.1  
5566 9.8 194558.2 -2149.2  
5567 9.5 194559.0 -2105.1  
5568 9.5 194603.7 -2128.1  
5569 9.4 194616.0 -2134.0  
5570 9.6 194631.9 -2159.4  
  
5571 9.5 194633.0 -2117.9  
5572 9.5 194645.0 -2100.0  
5573 9.3 194649.1 -2151.6  
5574 8.2 194658.6 -2153.0  
5575 9.8 194711.5 -2120.5  
5576 10.1 194714.7 -2142.0  
5577 9.4 194731.2 -2113.8  
5578 9.3 194753.6 -2116.7  
5579 10.1 194807.9 -2129.3  
5580 9.4 194814.5 -2139.2  
  
5581 10.1 194853.9 -2131.6  
5582 9.5 194917.0 -2153.4  
5583 9.1 194949.5 -2107.5  
5584 9.4 194952.9 -2122.5  
5585 9.2 195013.6 -2159.1  
5586 9.8 195037.4 -2132.9  
5587 9.7 195136.0 -2119.9  
5588 8.3 195152.1 -2115.0  
5589 9.3 195155.0 -2108.9  
5590 10.1 195218.0 -2144.0  
  
5591 9.8 195219.9 -2140.9  
5592 9.5 195223.4 -2148.3  
5593 9.4 195231.1 -2106.4  
5594 9.8 195233.1 -2101.7  
5595 8.2 195236.4 -2151.3  
5596 9.7 195236.5 -2134.0  
5597 9.0 195239.3 -2156.8  
5598 9.8 195304.1 -2154.9  
5599 9.5 195337.6 -2141.8  
5600 8.2 195342.4 -2128.9  
  
5601 9.8 195416.1 -2113.0  
5602 9.8 195423.2 -2103.5  
5603 7.8 195427.1 -2108.2  
5604 9.5 195446.5 -2147.4  
5605 9.8 195601.1 -2156.7  
5606 9.3 195618.1 -2156.7  
5607 9.5 195625.7 -2146.2  
5608 8.9 195626.1 -2129.4  
5609 7.0 195626.9 -2143.3  
5610 9.5 195629.1 -2102.7  
  
5611 10.1 195642.0 -2113.0  
5612 9.5 195708.2 -2112.5  
5613 9.8 195732.2 -2118.1  
5614 8.0 195735.6 -2124.8  
5615 9.8 195738.5 -2145.6  
5616 9.5 195742.2 -2136.7  
5617 8.9 195804.6 -2119.0  
5618 9.4 195818.8 -2105.0  
5619 9.0 195854.9 -2151.0  
5620 9.5 195906.2 -2139.8  
  
5621 8.0 195908.4 -2114.9  
5622 10.1 195925.8 -2103.1  
5623 9.4 195946.8 -2141.4  
5624 9.5 200004.7 -2115.5  
5625 8.9 200009.2 -2124.3  
5626 9.5 200038.4 -2143.6  
5627 9.1 200038.5 -2150.7  
5628 9.5 200053.6 -2115.4  
5629 7.2 200104.4 -2100.2  
5630 9.4 200105.0 -2152.6  
  
5631 8.5 200123.2 -2156.6  
5632 9.5 200136.6 -2140.1  
5633 9.5 200140.6 -2141.7  
5634 9.7 200146.3 -2137.7  
5635 8.8 200204.1 -2144.5  
5636 9.1 200208.6 -2119.9  
5637 8.5 200222.3 -2143.5  
5638 9.2 200223.0 -2116.1  
5639 8.8 200224.0 -2126.7  
5640 9.4 200237.3 -2123.0  
  
5641 9.4 200251.1 -2132.5  
5642 9.3 200256.5 -2108.4  
5643 9.4 200329.4 -2147.9  
5644 9.0 200321.9 -2143.4  
5645 9.4 200349.6 -2109.4  
5646 9.3 200406.5 -2140.7  
5647 8.0 200444.8 -2152.5  
5648 9.5 200450.3 -2154.8  
5649 9.0 200459.7 -2145.6  
5650 9.8 200523.0 -2152.8  
  
5651 9.9 200526.6 -2130.3  
5652 9.1 200532.2 -2143.8  
5653 10.1 200537.9 -2159.2  
5654 8.7 200559.8 -2159.7  
5655 8.6 200613.1 -2137.2  
5656 9.0 200623.7 -2113.9  
5657 9.5 200625.4 -2131.5  
5658 9.3 200646.6 -2122.2  
5659 9.5 200649.5 -2146.4  
5660 8.4 200700.7 -2154.0  
  
5661 9.5 200707.5 -2148.1  
5662 10.1 200709.5 -2133.3  
5663 9.8 200724.2 -2106.2  
5664 9.3 200726.6 -2141.0  
5665 9.7 200728.7 -2150.2  
5666 10.1 200733.5 -2148.6  
5667 9.8 200734.4 -2159.9  
5668 9.1 200752.5 -2146.1  
5669 8.3 200818.7 -2122.0  
5670 10.1 200829.5 -2150.0  
  
5671 9.6 200820.7 -2119.6  
5672 7.7 200836.9 -2145.6  
5673 9.2 200842.3 -2144.4  
5674 9.0 200843.4 -2138.7  
5675 9.6 200915.0 -2133.0  
5676 9.7 200920.0 -2159.2  
5677 9.1 201002.8 -2146.8  
5678 9.3 201003.0 -2128.1  
5679 9.4 201024.6 -2123.2  
5680 9.8 201038.8 -2145.0  
  
5681 8.5 201051.0 -2136.8  
5682 9.4 201052.3 -2113.2  
5683 9.8 201055.3 -2155.8  
5684 7.0 201057.5 -2123.6  
5685 9.0 201110.5 -2121.1  
5686 9.4 201123.8 -2116.2  
5687 9.4 201126.7 -2133.6  
5688 9.5 201138.8 -2118.2  
5689 9.3 201203.6 -2153.2  
5690 8.7 201217.8 -2115.0  
  
5691 9.4 201246.0 -2129.5  
5692 10.1 201259.1 -2154.0  
5693 9.5 201304.3 -2111.4  
5694 7.6 201304.4 -2151.9  
5695 10.1 201307.9 -2149.4  
5696 9.3 201359.8 -2125.1  
5697 9.6 201400.8 -2129.4  
5698 9.6 201432.5 -2155.9  
5699 9.0 201435.9 -2118.4  
5700 9.1 201438.9 -2107.5  
  
5701 9.4 201450.9 -2152.3  
5702 10.1 201458.4 -2106.4  
5703 8.2 201502.4 -2147.9  
5704 9.7 201508.7 -2138.4  
5705 10.1 201531.5 -2106.8  
5706 7.8 201538.3 -2138.0  
5707 8.2 201554.4 -2122.4  
5708 9.1 201605.8 -2139.4  
5709 10.1 201617.7 -2159.9  
5710 9.6 201623.5 -2159.8  
  
5711 9.4 201634.0 -2123.6  
5712 9.7 201634.9 -2115.3  
5713 9.8 201635.6 -2106.8  
5714 10.1 201644.8 -2127.8  
5715 9.4 201658.4 -2116.0  
5716 8.5 201700.4 -2137.4  
5717 8.7 201701.9 -2157.1  
5718 9.1 201821.4 -2137.9  
5719 8.5 201824.5 -2116.8  
5720 9.4 201847.0 -2117.7  
  
5721 9.5 201918.0 -2134.6  
5722 9.6 201931.4 -2133.6  
5723 8.8 202004.1 -2102.9  
5724 8.9 202006.0 -2136.3  
5725 10.1 202009.1 -2128.3  
5726 9.3 202016.0 -2157.2  
5727 9.4 202027.9 -2141.1  
5728 9.4 202028.9 -2154.1  
5729 6.5 202033.6 -2122.4  
5730 10.1 202040.9 -2146.3  
  
5731 9.5 202043.3 -2144.4  
5732 9.5 202045.6 -2107.2  
5733 10.1 202059.2 -2128.4  
5734 9.4 202103.5 -2113.5  
5735 8.7 202110.4 -2135.9  
5736 9.1 202123.8 -2140.4  
5737 9.0 202135.4 -2143.8  
5738 7.0 202215.2 -2111.4  
5739 10.1 202216.3 -2101.6  
5740 9.5 202222.6 -2119.8  
  
5741 9.4 202227.7 -2141.3  
5742 9.5 202247.2 -2113.3  
5743 9.2 202335.3 -2134.7  
5744 9.4 202336.5 -2131.4  
5745 9.8 202407.0 -2156.5  
5746 10.1 202409.0 -2112.3  
5747 9.8 202424.2 -2139.8  
5748 9.8 202427.1 -2124.9  
5749 9.9 202427.4 -2159.5  
5750 10.1 202434.0 -2146.2  
  
5751 8.8 202459.7 -2154.6  
5752 8.3 202500.7 -2123.0  
5753 9.0 202508.8 -2144.5  
5754 8.0 202529.8 -2101.6  
5755 9.8 202534.6 -2151.7  
5756 9.7 202555.3 -2143.7  
5757 9.5 202607.9 -2134.5  
5758 9.1 202615.9 -2155.7  
5759 9.8 202628.1 -2103.1  
5760 9.6 202630.3 -2139.2  
  
5761 9.2 202659.8 -2106.7  
5762 10.1 202708.4 -2121.4  
5763 9.5 202714.5 -2145.3  
5764 10.1 202715.6 -2154.5  
5765 10.1 202749.1 -2143.8  
5766 9.6 202752.4 -2132.5  
5767 8.8 202756.3 -2128.5  
5768 6.8 202802.4 -2104.5  
5769 9.4 202806.8 -2129.7  
5770 9.5 202827.3 -2148.9  
  
5771 9.7 202833.9 -2125.5  
5772 9.7 202834.4 -2104.7  
5773 8.7 202836.4 -2103.6  
5774 9.7 202845.1 -2159.5  
5775 9.7 202853.0 -2136.6  
5776 8.4 202909.7 -2149.7  
5777 9.8 202925.1 -2108.7  
5778 10.1 202927.2 -2112.0  
5779 10.1 202938.6 -2155.4  
5780 9.8 202948.5 -2116.5  
  
5781 8.2 202955.2 -2155.4  
5782 6.8 202959.9 -2129.8  
5783 9.5 203006.8 -2153.2  
5784 9.0 203032.5 -2135.9  
5785 9.8 203104.4 -2128.7  
5786 9.4 203106.2 -2132.8  
5787 8.4 203112.9 -2126.4  
5788 10.1 203119.3 -2148.4  
5789 9.1 203147.0 -2128.2  
5790 10.1 203148.2 -2133.3  
  
5791 9.1 203202.3 -2143.5  
5792 9.1 203202.5 -2118.2  
5793 10.1 203211.6 -2124.6  
5794 9.8 203224.6 -2118.4  
5795 9.0 203252.0 -2134.7  
5796 10.1 203255.3 -2155.3  
5797 9.0 203307.5 -2119.1  
5798 9.8 203314.0 -2134.1  
5799 9.5 203320.4 -2124.2  
5800 9.7 203323.0 -2132.1  
  
5801 9.5 203339.2 -2133.1  
5802 8.8 203341.5 -2147.4  
5803 9.5 203349.5 -2144.6  
5804 9.6 203401.4 -2113.5  
5805 8.8 203449.1 -2119.4  
5806 8.8 203509.2 -2137.1  
5807 9.0 203522.6 -2102.0  
5808 8.8 203523.8 -2145.2  
5809 9.3 203525.5 -2148.1  
5810 9.5 203527.6 -2112.5  
  
5811 9.5 203535.7 -2151.7  
5812 8.3 203547.1 -2142.5  
5813 9.0 203620.1 -2106.4  
5814 7.7 203627.2 -2124.6  
5815 9.7 203645.5 -2126.5  
5816 8.7 203651.7 -2140.3  
5817 9.2 203721.3 -2122.3  
5818 9.1 203724.6 -2130.1  
5819 9.5 203727.6 -2103.3  
5820 8.9 203736.1 -2102.4  
  
5821 9.0 203758.1 -2104.0  
5822 10.1 203818.8 -2146.5  
5823 10.1 203819.0 -2151.7  
5824 9.3 203823.2 -2116.3  
5825 10.1 203847.7 -2108.9  
5826 10.1 203907.1 -2158.1  
5827 9.8 203918.6 -2124.2  
5828 9.8 203920.8 -2128.5  
5829 9.1 203941.5 -2148.4  
5830 9.5 203942.2 -2134.5  
  
5831 9.3 203942.7 -2123.0  
5832 8.9 203953.0 -2152.8  
5833 10.1 203957.8 -2107.9  
5834 10.1 203959.0 -2112.4  
5835 9.8 204002.5 -2125.0  
5836 9.7 204010.6 -2130.3  
5837 8.7 204013.4 -2118.4  
5838 10.1 204022.4 -2102.1  
5839 8.5 204033.6 -2108.7  
5840 8.0 204051.4 -2109.0  
  
5841 9.2 204052.3 -2125.8  
5842 9.5 204118.8 -2143.8  
5843 9.1 204125.7 -2108.3  
5844 6.8 204231.4 -2150.4  
5845 9.5 204235.1 -2132.3  
5846 9.7 204245.8 -2154.7  
5847 8.7 204307.0 -2133.9  
5848 9.3 204311.4 -2140.3  
5849 9.6 204315.1 -2154.1  
5850 9.3 204321.2 -2123.7  
  
5851 9.4 204334.3 -2105.1  
5852 7.3 204359.4 -2145.8  
5853 9.8 204405.7 -2113.5  
5854 9.5 204411.0 -2151.3  
5855 10.1 204414.8 -2158.0  
5856 9.3 204442.9 -2149.3  
5857 9.3 204447.8 -2114.3  
5858 9.8 204506.4 -2125.3  
5859 9.5 204517.7 -2143.3  
5860 9.5 204550.7 -2126.1  
  
5861 10.1 204552.7 -2148.0  
5862 9.9 204601.2 -2151.5  
5863 10.1 204617.7 -2149.7  
5864 7.5 204622.8 -2129.7  
5865 9.0 204702.6 -2140.0  
5866 10.1 204702.8 -2131.8  
5867 9.5 204707.7 -2120.7  
5868 9.4 204709.8 -2101.1  
5869 9.7 204734.0 -2155.7  
5870 10.1 204744.8 -2142.9  
  
5871 9.0 204808.9 -2108.1  
5872 10.1 204837.8 -2148.3  
5873 9.5 204847.0 -2124.4  
5874 9.8 204853.6 -2142.4  
5875 9.6 204930.7 -2136.1  
5876 9.1 204931.3 -2146.7  
5877 9.3 204940.9 -2117.1  
5878 8.5 204952.7 -2153.6  
5879 9.8 204958.2 -2118.6  
5880 9.3 204958.3 -2147.2  
  
5881 9.8 204958.7 -2105.8  
5882 9.1 205023.2 -2136.2  
5883 10.1 205027.5 -2138.8  
5884 9.8 205037.7 -2131.1  
5885 9.5 205039.1 -2149.4  
5886 9.7 205041.0 -2138.4  
5887 9.9 205102.0 -2157.2  
5888 8.9 205125.9 -2102.0  
5889 10.1 205147.9 -2124.8  
5890 9.8 205153.0 -2146.3

-21 5890 20h51m



5891 9.2 205156.8 -2142.8  
 5892 9.2 205210.1 -2109.5  
 5893 9.7 205214.4 -2136.9  
 5894 9.6 205230.2 -2156.9  
 5895 9.8 205233.0 -2106.7  
 5896 9.8 205236.9 -2101.3  
 5897 9.8 205242.6 -2111.6  
 5898 9.8 205253.5 -2121.0  
 5899 9.5 205300.6 -2149.1  
 5900 9.0 205345.6 -2141.0

5901 8.8 205347.6 -2153.7  
 5902 9.2 205350.9 -2158.8  
 5903 9.3 205413.6 -2120.1  
 5904 9.8 205517.4 -2113.8  
 5905 9.6 205517.7 -2150.5  
 5906 9.3 205527.4 -2125.0  
 5907 8.3 205534.9 -2119.0  
 5908 9.9 205552.6 -2143.0  
 5909 9.9 205559.5 -2152.7  
 5910 9.4 205631.6 -2149.0

5911 9.2 205636.1 -2102.7  
 5912 9.6 205641.7 -2126.1  
 5913 8.5 205654.2 -2145.3  
 5914 9.7 205657.8 -2153.2  
 5915 9.2 205707.1 -2105.6  
 5916 9.4 205719.6 -2148.3  
 5917 8.5 205725.3 -2131.6  
 5918 10. 205736.5 -2103.1  
 5919 10. 205740.7 -2107.4  
 5920 9.2 205743.0 -2135.8

5921 9.7 205818.8 -2107.5  
 5922 9.8 205821.9 -2131.7  
 5923 9.9 205842.2 -2131.0  
 5924 9.0 205842.7 -2119.5  
 5925 8.7 205848.9 -2128.1  
 5926 10. 205854.1 -2108.4  
 5927 9.7 205901.4 -2119.9  
 5928 8.4 205903.2 -2104.8  
 5929 9.0 205935.3 -2141.8  
 5930 9.0 205940.7 -2147.0

5931 9.2 205954.7 -2134.4  
 5932 9.5 210009.6 -2132.4  
 5933 5.3 210014.7 -2145.7  
 5934 30.0 210014.8 -2155.8  
 5935 9.5 210017.8 -2123.9  
 5936 9.4 210025.1 -2106.4  
 5937 10. 210025.3 -2158.8  
 5938 9.5 210029.4 -2112.4  
 5939 9.0 210108.7 -2104.4  
 5940 6.5 210115.4 -2108.8

5941 8.3 210116.4 -2137.6  
 5942 9.8 210126.8 -2145.9  
 5943 10. 210141.2 -2142.6  
 5944 9.6 210141.3 -2114.1  
 5945 9.3 210149.4 -2127.0  
 5946 9.8 210158.3 -2125.7  
 5947 10. 210207.9 -2138.5  
 5948 9.8 210216.3 -2104.4  
 5949 9.3 210229.3 -2108.6  
 5950 9.5 210232.6 -2113.5

5951 9.8 210245.8 -2107.3  
 5952 9.5 210256.4 -2119.0  
 5953 9.9 210323.9 -2132.6  
 5954 9.5 210332.4 -2144.8  
 5955 9.3 210343.5 -2144.4  
 5956 9.5 210345.9 -2158.5  
 5957 9.5 210414.3 -2126.9  
 5958 9.8 210417.3 -2101.1  
 5959 7.7 210420.9 -2136.1  
 5960 9.4 210430.4 -2108.8

5961 9.4 210431.4 -2125.8  
 5962 9.5 210445.1 -2130.3  
 5963 9.1 210446.5 -2152.9  
 5964 9.3 210447.9 -2146.2  
 5965 9.6 210449.8 -2140.8  
 5966 9.4 210459.0 -2117.7  
 5967 9.7 210524.8 -2157.0  
 5968 9.8 210555.5 -2102.7  
 5969 9.3 210604.0 -2140.8  
 5970 9.6 210613.5 -2109.6

5971 9.6 210614.0 -2134.4  
 5972 7.5 210642.5 -2122.6  
 5973 8.2 210657.2 -2153.4  
 5974 5.5 210722.8 -2114.7  
 5975 9.5 210817.9 -2139.0  
 5976 9.7 210818.6 -2113.4  
 5977 9.7 210836.9 -2157.1  
 5978 8.5 210923.2 -2151.4  
 5979 10. 210932.5 -2141.3  
 5980 9.8 210935.0 -2104.4

5981 8.6 210941.5 -2151.1  
 5982 10. 211003.5 -2120.3  
 5983 9.0 211004.7 -2148.5  
 5984 9.5 211014.4 -2126.4  
 5985 9.5 211019.1 -2131.4  
 5986 9.4 211037.0 -2100.5  
 5987 9.0 211043.5 -2101.4  
 5988 8.7 211049.4 -2153.1  
 5989 8.7 211050.7 -2153.7  
 5990 9.4 211107.6 -2115.1

5991 9.7 211116.9 -2129.0  
 5992 7.2 211248.6 -2125.8  
 5993 8.5 211302.7 -2113.0  
 5994 9.7 211336.7 -2110.5  
 5995 9.0 211338.7 -2116.5  
 5996 9.8 211342.2 -2108.0  
 5997 9.8 211353.0 -2126.7  
 5998 9.2 211402.0 -2135.8  
 5999 9.0 211402.0 -2118.6  
 6000 9.6 211405.1 -2152.5

6001 10. 211412.6 -2138.4  
 6002 9.8 211445.0 -2125.3  
 6003 9.8 211448.8 -2114.6  
 6004 9.5 211516.3 -2146.1  
 6005 9.9 211526.4 -2144.1  
 6006 9.9 211547.2 -2110.5  
 6007 5.3 211556.0 -2127.7  
 6008 10. 211605.2 -2100.1  
 6009 9.0 211633.7 -2100.4  
 6010 9.0 211646.3 -2134.0

6011 9.0 211649.2 -2104.6  
 6012 9.0 211707.7 -2100.1  
 6013 10. 211718.3 -2116.0  
 6014 9.5 211737.3 -2104.3  
 6015 8.8 211756.4 -2115.3  
 6016 7.5 211808.3 -2137.2  
 6017 8.5 211813.9 -2102.8  
 6018 9.8 211839.6 -2134.5  
 6019 9.2 211852.9 -2120.7  
 6020 6.4 211901.1 -2149.0

6021 9.4 211921.0 -2132.1  
 6022 9.7 211939.9 -2153.9  
 6023 10. 211949.2 -2146.2  
 6024 9.8 212000.5 -2130.5  
 6025 9.4 212102.3 -2154.5  
 6026 9.5 212103.7 -2129.6  
 6027 9.5 212106.4 -2133.1  
 6028 9.9 212138.9 -2113.9  
 6029 9.5 212208.4 -2123.5  
 6030 9.1 212216.3 -2118.4

6031 9.1 212307.0 -2141.9  
 6032 9.0 212322.5 -2112.6  
 6033 9.3 212405.0 -2100.5  
 6034 9.4 212410.4 -2114.6  
 6035 8.4 212413.9 -2135.4  
 6036 9.9 212425.0 -2101.4  
 6037 9.5 212442.7 -2155.0  
 6038 8.5 212500.5 -2119.0  
 6039 8.4 212512.9 -2154.7  
 6040 9.5 212531.6 -2140.4

6041 9.0 212545.9 -2155.5  
 6042 9.3 212549.1 -2100.4  
 6043 9.5 212608.0 -2141.9  
 6044 9.5 212608.2 -2127.1  
 6045 9.2 212631.5 -2116.3  
 6046 9.3 212633.8 -2159.9  
 6047 8.2 212641.6 -2105.0  
 6048 9.8 212724.0 -2118.3  
 6049 9.0 212739.1 -2143.2  
 6050 9.2 212747.1 -2100.8

6051 9.1 212758.6 -2104.4  
 6052 9.1 212831.5 -2122.0  
 6053 8.8 212858.8 -2140.8  
 6054 8.7 212927.2 -2104.0  
 6055 10. 212928.2 -2112.2  
 6056 9.8 212929.1 -2132.3  
 6057 9.7 213038.2 -2110.6  
 6058 9.9 213107.3 -2104.1  
 6059 9.8 213108.0 -2120.6  
 6060 9.5 213108.2 -2145.3

6061 9.5 213121.4 -2141.7  
 6062 9.1 213132.3 -2119.7  
 6063 9.3 213158.5 -2152.1  
 6064 9.8 213156.1 -2125.6  
 6065 9.4 213202.6 -2134.8  
 6066 9.2 213223.5 -2155.0  
 6067 9.3 213241.4 -2142.7  
 6068 9.6 213315.0 -2136.2  
 6069 9.1 213323.0 -2157.2  
 6070 9.0 213327.8 -2112.6

6071 9.5 213338.5 -2143.2  
 6072 9.5 213346.6 -2156.2  
 6073 10. 213421.4 -2120.7  
 6074 9.3 213443.0 -2133.4  
 6075 9.3 213444.2 -2158.2  
 6076 8.5 213450.9 -2104.1  
 6077 9.3 213505.7 -2134.5  
 6078 9.8 213534.5 -2145.8  
 6079 9.7 213539.3 -2155.9  
 6080 9.0 213544.6 -2125.3

6081 9.2 213615.8 -2133.8  
 6082 9.9 213618.5 -2108.6  
 6083 9.2 213620.1 -2133.6  
 6084 8.9 213635.3 -2155.9  
 6085 9.1 213703.2 -2153.5  
 6086 9.9 213714.3 -2108.7  
 6087 9.8 213727.2 -2156.8  
 6088 9.4 213746.1 -2135.3  
 6089 9.7 213812.1 -2124.0  
 6090 9.7 213832.4 -2156.8

6091 9.0 213901.2 -2111.6  
 6092 10. 213921.0 -2151.5  
 6093 9.0 213923.9 -2125.8  
 6094 9.5 213935.3 -2151.4  
 6095 9.3 214049.7 -2145.4  
 6096 9.8 214130.4 -2109.0  
 6097 9.1 214132.7 -2111.0  
 6098 8.7 214145.6 -2108.4  
 6099 9.4 214149.0 -2126.7  
 6100 8.7 214211.7 -2157.3

6101 9.2 214231.3 -2109.0  
 6102 8.0 214243.8 -2112.9  
 6103 9.5 214246.3 -2108.0  
 6104 9.6 214312.7 -2150.5  
 6105 9.5 214317.8 -2131.6  
 6106 8.9 214342.2 -2154.9  
 6107 10. 214344.9 -2122.0  
 6108 9.2 214346.2 -2157.5  
 6109 10. 214358.4 -2123.1  
 6110 9.7 214409.5 -2142.1

6111 9.5 214453.8 -2101.8  
 6112 9.8 214538.9 -2129.7  
 6113 9.4 214556.7 -2151.0  
 6114 9.3 214556.7 -2124.8  
 6115 9.8 214611.6 -2101.1  
 6116 9.8 214615.1 -2101.1  
 6117 9.5 214624.2 -2102.9  
 6118 9.8 214715.8 -2140.1  
 6119 8.5 214731.0 -2105.9  
 6120 7.2 214732.0 -2149.2

6121 9.3 214733.5 -2114.4  
 6122 10. 214802.4 -2111.9  
 6123 9.6 214828.6 -2124.1  
 6124 9.1 214830.5 -2127.1  
 6125 9.0 214830.6 -2112.8  
 6126 9.8 214833.4 -2143.2  
 6127 9.3 214925.2 -2148.4  
 6128 8.9 214925.7 -2150.3  
 6129 9.8 214929.8 -2137.7  
 6130 9.0 215012.9 -2125.8

6131 6.2 215037.6 -2152.5  
 6132 9.8 215122.8 -2143.3  
 6133 9.3 215123.0 -2150.4  
 6134 9.8 215124.7 -2141.7  
 6135 9.4 215125.7 -2151.3  
 6136 9.7 215138.4 -2124.5  
 6137 9.5 215140.7 -2106.8  
 6138 9.5 215144.5 -2111.3  
 6139 9.4 215144.6 -2111.3  
 6140 9.5 215144.7 -2131.8

6141 9.6 215145.7 -2101.2  
 6142 9.6 215215.3 -2153.5  
 6143 9.8 215215.4 -2126.0  
 6144 10. 215217.6 -2103.0  
 6145 8.9 215226.6 -2130.0  
 6146 9.6 215250.1 -2131.4  
 6147 9.1 215251.2 -2102.1  
 6148 9.4 215301.8 -2138.3  
 6149 9.8 215332.3 -2131.7  
 6150 9.5 215334.8 -2125.2

6151 10. 215341.4 -2147.0  
 6152 9.7 215349.3 -2148.2  
 6153 9.6 215505.0 -2144.8  
 6154 8.0 215623.4 -2106.5  
 6155 9.5 215620.9 -2112.6  
 6156 9.6 215626.4 -2140.2  
 6157 9.5 215641.0 -2147.1  
 6158 9.1 215644.9 -2123.2  
 6159 9.6 215645.5 -2127.4  
 6160 9.3 215652.0 -2145.6

6161 9.8 215813.9 -2115.0  
 6162 9.6 215820.1 -2145.3  
 6163 9.4 215859.2 -2129.7  
 6164 9.3 215902.4 -2107.5  
 6165 9.5 215928.7 -2147.4  
 6166 7.3 215935.4 -2127.9  
 6167 9.4 215936.7 -2143.6  
 6168 9.1 215941.1 -2147.6  
 6169 9.9 220057.6 -2111.9  
 6170 8.3 220216.3 -2142.1

6171 9.2 220242.2 -2123.2  
 6172 9.8 220244.1 -2113.6  
 6173 6.0 220259.5 -2156.4  
 6174 9.6 220314.4 -2154.2  
 6175 7.3 220445.7 -2136.1  
 6176 9.8 220501.2 -2101.3  
 6177 9.8 220505.3 -2146.1  
 6178 9.2 220538.8 -2121.8  
 6179 9.4 220601.9 -2137.4  
 6180 5.5 220617.5 -2147.5

6181 9.0 220627.1 -2155.4  
 6182 9.0 220628.5 -2144.9  
 6183 8.8 220629.7 -2139.4  
 6184 9.3 220647.7 -2154.5  
 6185 9.2 220713.3 -2109.7  
 6186 8.6 220739.4 -2159.3  
 6187 9.4 220747.2 -2154.0  
 6188 9.2 220809.1 -2150.5  
 6189 9.9 220901.4 -2152.4  
 6190 9.1 220936.9 -2111.4

6191 8.8 220959.5 -2112.9  
 6192 9.3 221016.0 -2119.5  
 6193 8.6 221027.7 -2143.3  
 6194 9.3 221031.9 -2117.9  
 6195 9.7 221032.0 -2153.1  
 6196 9.0 221033.2 -2113.0  
 6197 7.7 221036.2 -2127.3  
 6198 9.0 221039.0 -2116.8  
 6199 9.8 221102.5 -2106.0  
 6200 9.5 221125.9 -2131.3

6201 9.5 221129.6 -2150.9  
 6202 10. 221150.6 -2149.0  
 6203 9.8 221150.8 -2134.8  
 6204 9.8 221191.5 -2113.8  
 6205 9.5 221305.0 -2106.6  
 6206 8.9 221344.0 -2130.8  
 6207 8.5 221359.7 -2133.2  
 6208 9.8 221423.0 -2128.3  
 6209 9.4 221423.0 -2149.7  
 6210 9.8 221425.4 -2157.3

6211 9.2 221438.8 -2148.1  
 6212 10. 221525.7 -2114.2  
 6213 8.5 221533.7 -2102.5  
 6214 8.6 221547.7 -2120.7  
 6215 9.8 221642.2 -2107.0  
 6216 9.8 221702.5 -2127.3  
 6217 10. 221702.6 -2144.1  
 6218 9.5 221724.7 -2111.6  
 6219 9.5 221743.0 -2121.0  
 6220 9.4 221754.6 -2159.4

6221 9.5 221805.8 -2104.7  
 6222 9.9 221819.5 -2125.7  
 6223 9.6 221842.7 -2149.3  
 6224 10. 221851.4 -2135.5  
 6225 10. 221854.9 -2157.4  
 6226 9.0 221910.8 -2103.3  
 6227 9.7 221937.7 -2159.2  
 6228 9.7 222005.0 -2127.5  
 6229 9.0 222015.4 -2107.3  
 6230 9.3 222033.8 -2156.1

6231 9.8 222053.5 -2112.9  
 6232 10. 222102.8 -2124.5  
 6233 10. 222103.7 -2133.5  
 6234 8.3 222111.0 -2108.4  
 6235 9.3 222113.9 -2130.6  
 6236 9.8 222115.3 -2158.1  
 6237 9.4 222117.0 -2142.1  
 6238 9.8 222129.9 -2141.5  
 6239 20.0 222134.0 -2135.0  
 6240 9.5 222220.0 -2117.7

6241 9.6 222227.4 -2134.5  
 6242 9.5 222352.1 -2129.6  
 6243 10. 222359.1 -2131.3  
 6244 9.4 222414.8 -2131.0  
 6245 9.2 222429.5 -2127.4  
 6246 9.2 222511.5 -2157.4  
 6247 9.5 222538.4 -2150.0  
 6248 9.2 222604.1 -2102.3  
 6249 9.8 222615.9 -2127.9  
 6250 9.5 222645.4 -2141.1



6251 5.7 222646.1 -2126.9  
 6252 9.8 222648.4 -2137.5  
 6253 9.2 222756.6 -2141.4  
 6254 7.3 222759.9 -2140.9  
 6255 9.5 222801.2 -2118.6  
 6256 9.4 222817.8 -2149.1  
 6257 7.8 222853.2 -2149.8  
 6258 9.4 222854.3 -2109.5  
 6259 9.6 222909.4 -2133.7  
 6260 10. 222909.5 -2116.5

6261 7.0 222937.3 -2107.9  
 6262 9.5 223004.1 -2135.4  
 6263 9.4 223004.1 -2112.7  
 6264 9.0 223004.8 -2105.0  
 6265 9.5 223021.8 -2103.5  
 6266 8.7 223038.0 -2135.1  
 6267 9.0 223049.4 -2122.0  
 6268 9.8 223124.4 -2105.6  
 6269 10. 223130.9 -2149.2  
 6270 9.3 223136.5 -2126.1

6271 8.9 223142.6 -2148.5  
 6272 9.4 223152.4 -2114.8  
 6273 10. 223214.3 -2112.7  
 6274 9.0 223217.3 -2128.0  
 6275 9.2 223225.1 -2102.0  
 6276 9.8 223225.5 -2118.2  
 6277 9.6 223231.4 -2150.5  
 6278 9.4 223309.2 -2125.9  
 6279 9.7 223318.1 -2143.6  
 6280 9.5 223328.5 -2122.7

6281 9.8 223354.6 -2117.0  
 6282 9.4 223406.8 -2146.7  
 6283 9.0 223407.4 -2132.4  
 6284 9.6 223407.9 -2149.1  
 6285 9.9 223428.2 -2152.6  
 6286 9.5 223431.0 -2122.8  
 6287 8.6 223445.7 -2142.1  
 6288 9.0 223458.8 -2156.0  
 6289 10. 223552.6 -2106.9  
 6290 9.8 223554.9 -2151.7

6291 9.0 223611.3 -2130.2  
 6292 9.5 223614.1 -2133.6  
 6293 9.6 223637.6 -2104.8  
 6294 9.3 223643.8 -2142.3  
 6295 9.1 223720.7 -2106.8  
 6296 9.0 223727.4 -2137.9  
 6297 9.0 223753.1 -2125.5  
 6298 9.4 223811.1 -2136.1  
 6299 9.4 223818.3 -2149.5  
 6300 9.6 223823.3 -2149.8

6301 8.5 223847.2 -2101.3  
 6302 9.9 223855.5 -2144.8  
 6303 7.9 223859.8 -2133.2  
 6304 9.7 223914.4 -2135.7  
 6305 8.5 223935.5 -2148.6  
 6306 9.8 224100.4 -2157.1  
 6307 9.5 224101.5 -2115.4  
 6308 9.1 224124.0 -2101.6  
 6309 9.1 224125.6 -2144.5  
 6310 7.3 224207.1 -2102.9

6311 9.8 224212.8 -2119.7  
 6312 9.5 224301.0 -2126.1  
 6313 9.5 224328.2 -2147.3  
 6314 8.5 224349.2 -2142.6  
 6315 8.3 224392.0 -2156.9  
 6316 9.3 224457.7 -2101.7  
 6317 8.9 224614.3 -2108.4  
 6318 9.1 224641.3 -2137.7  
 6319 9.3 224643.2 -2132.2  
 6320 9.5 224702.3 -2124.6

6321 9.1 224732.4 -2157.6  
 6322 9.3 224741.6 -2132.5  
 6323 9.4 224800.4 -2104.3  
 6324 9.6 224805.0 -2131.7  
 6325 8.5 224807.9 -2118.4  
 6326 9.4 224810.4 -2107.2  
 6327 9.3 224816.6 -2152.0  
 6328 9.8 224850.5 -2143.7  
 6329 7.4 224906.5 -2153.3  
 6330 3.0 224919.7 -2137.0

6331 9.0 224927.2 -2156.4  
 6332 9.7 224928.9 -2111.7  
 6333 8.3 224943.4 -2126.5  
 6334 7.5 224950.4 -2102.6  
 6335 10. 224953.3 -2118.6  
 6336 9.6 225015.0 -2122.0  
 6337 10. 225026.5 -2136.0  
 6338 9.1 225033.6 -2158.3  
 6339 9.6 225054.5 -2136.5  
 6340 9.3 225106.4 -2125.1

6341 8.9 225108.6 -2139.8  
 6342 4.3 225136.5 -2123.3  
 6343 10. 225145.5 -2120.0  
 6344 10. 225206.0 -2159.6  
 6345 9.7 225217.6 -2124.4  
 6346 9.6 225229.4 -2155.8  
 6347 10. 225230.1 -2132.2  
 6348 8.8 225247.2 -2135.7  
 6349 9.5 225339.7 -2142.6  
 6350 9.1 225412.6 -2138.9

6351 9.2 225428.2 -2117.1  
 6352 10. 225432.1 -2114.8  
 6353 9.0 225441.7 -2118.6  
 6354 6.4 225459.1 -2138.4  
 6355 9.5 225516.4 -2142.4  
 6356 8.5 225540.1 -2123.1  
 6357 9.7 225544.9 -2156.3  
 6358 10. 225620.3 -2103.1  
 6359 8.5 225737.6 -2125.2  
 6360 9.2 225754.7 -2157.0

6361 8.9 225919.0 -2115.0  
 6362 9.5 225934.0 -2139.0  
 6363 9.7 230006.6 -2129.1  
 6364 9.0 230019.1 -2122.5  
 6365 9.1 230052.0 -2118.1  
 6366 9.0 230111.1 -2138.4  
 6367 9.9 230132.1 -2135.7  
 6368 4.4 230141.8 -2157.1  
 6369 9.9 230154.8 -2151.2  
 6370 9.1 230157.1 -2145.4

6371 9.8 230219.9 -2134.9  
 6372 8.3 230307.4 -2148.2  
 6373 9.1 230313.9 -2136.1  
 6374 9.8 230326.7 -2108.5  
 6375 9.3 230329.7 -2119.0  
 6376 9.0 230353.5 -2147.4  
 6377 9.5 230442.5 -2148.9  
 6378 9.0 230447.9 -2153.8  
 6379 10. 230452.3 -2111.2  
 6380 9.8 230454.0 -2149.3

6381 9.0 230458.2 -2121.3  
 6382 9.4 230608.8 -2103.0  
 6383 9.8 230617.0 -2157.6  
 6384 9.8 230627.7 -2153.4  
 6385 9.3 230633.8 -2135.0  
 6386 9.6 230724.5 -2116.7  
 6387 9.2 230737.4 -2117.9  
 6388 9.4 230728.2 -2123.9  
 6389 9.3 230751.5 -2118.6  
 6390 9.3 230800.5 -2105.9

6391 10. 230814.0 -2101.0  
 6392 8.8 230816.9 -2104.7  
 6393 9.5 230818.2 -2109.7  
 6394 10. 230842.4 -2120.2  
 6395 10. 230851.5 -2124.6  
 6396 8.3 230853.8 -2158.1  
 6397 7.8 230908.1 -2159.2  
 6398 7.8 230927.7 -2128.4  
 6399 9.8 230932.5 -2103.2  
 6400 9.4 231004.6 -2106.1

6401 10. 231122.8 -2129.3  
 6402 10. 231151.5 -2145.2  
 6403 8.5 231152.8 -2129.7  
 6404 9.3 231228.7 -2151.6  
 6405 9.0 231235.9 -2144.2  
 6406 9.4 231247.5 -2139.0  
 6407 9.5 231330.6 -2156.0  
 6408 8.5 231340.0 -2138.6  
 6409 8.5 231354.7 -2105.4  
 6410 9.3 231359.3 -2135.8

6411 9.8 231403.0 -2146.8  
 6412 9.5 231416.3 -2147.4  
 6413 9.8 231523.0 -2130.5  
 6414 9.3 231544.4 -2120.0  
 6415 8.5 231648.8 -2149.5  
 6416 8.5 231659.2 -2111.3  
 6417 9.0 231714.0 -2104.5  
 6418 9.3 231720.7 -2139.2  
 6419 8.2 231814.7 -2124.3  
 6420 5.5 231824.4 -2126.3

6421 8.7 231852.7 -2159.4  
 6422 8.9 231933.8 -2132.4  
 6423 8.9 232052.6 -2116.0  
 6424 9.4 232144.7 -2108.5  
 6425 9.8 232156.2 -2102.3  
 6426 8.9 232210.2 -2106.1  
 6427 9.5 232212.1 -2107.0  
 6428 8.4 232217.2 -2122.4  
 6429 9.7 232232.9 -2152.7  
 6430 9.5 232236.3 -2157.5

6431 10. 232247.7 -2100.3  
 6432 9.9 232335.3 -2104.3  
 6433 9.7 232345.0 -2159.9  
 6434 9.8 232410.0 -2159.7  
 6435 9.6 232500.0 -2129.6  
 6436 9.1 232518.8 -2158.9  
 6437 5.8 232540.4 -2142.8  
 6438 9.8 232559.9 -2134.8  
 6439 9.2 232658.9 -2154.3  
 6440 9.4 232710.7 -2123.5

6441 9.8 232714.4 -2148.6  
 6442 9.4 232718.6 -2151.3  
 6443 10. 232757.4 -2129.4  
 6444 9.8 232816.0 -2149.1  
 6445 9.8 232823.8 -2158.6  
 6446 9.9 232843.1 -2126.5  
 6447 9.8 232844.0 -2104.0  
 6448 9.7 232847.4 -2128.4  
 6449 9.7 232939.6 -2144.4  
 6450 9.6 232942.8 -2117.8

6451 9.7 232943.6 -2144.2  
 6452 9.0 233005.3 -2118.0  
 6453 7.8 233107.1 -2140.1  
 6454 9.7 233120.9 -2129.2  
 6455 9.3 233123.9 -2120.6  
 6456 9.9 233124.2 -2126.6  
 6457 9.1 233153.9 -2149.3  
 6458 9.3 233155.4 -2121.8  
 6459 9.5 233322.2 -2131.5  
 6460 10. 233324.0 -2144.6

6461 8.7 233345.5 -2116.0  
 6462 9.6 233356.3 -2130.9  
 6463 9.8 233427.5 -2139.6  
 6464 10. 233457.0 -2148.9  
 6465 9.9 233502.3 -2122.1  
 6466 9.3 233517.1 -2141.1  
 6467 8.0 233545.5 -2153.6  
 6468 8.5 233613.8 -2104.7  
 6469 9.5 233704.3 -2146.9  
 6470 10. 233738.9 -2144.7

6471 9.9 233742.4 -2121.8  
 6472 9.7 233946.2 -2130.1  
 6473 9.5 233955.9 -2136.9  
 6474 9.8 234011.0 -2138.4  
 6475 9.6 234014.9 -2126.5  
 6476 10. 234037.1 -2118.2  
 6477 10. 234048.6 -2126.7  
 6478 9.2 234058.5 -2154.9  
 6479 9.5 234109.0 -2156.3  
 6480 8.5 234137.1 -2149.4

6481 9.9 234144.2 -2121.0  
 6482 9.1 234149.0 -2141.8  
 6483 8.5 234155.7 -2114.8  
 6484 8.9 234219.2 -2118.9  
 6485 8.3 234244.6 -2140.5  
 6486 6.8 234303.7 -2102.1  
 6487 9.8 234341.3 -2102.3  
 6488 8.6 234402.4 -2135.6  
 6489 9.8 234439.3 -2114.2  
 6490 9.8 234518.5 -2128.9

6491 9.0 234606.2 -2101.8  
 6492 7.2 234609.4 -2119.1  
 6493 9.5 234624.3 -2145.4  
 6494 9.7 234646.9 -2132.1  
 6495 10. 234706.5 -2120.0  
 6496 9.7 234724.4 -2139.5  
 6497 9.4 234803.9 -2105.9  
 6498 7.8 234806.4 -2145.4  
 6499 8.6 234829.5 -2116.5  
 6500 6.5 234942.0 -2138.2

6501 9.2 235009.2 -2159.0  
 6502 10. 235030.1 -2102.6  
 6503 9.7 235034.6 -2129.2  
 6504 9.3 235041.3 -2125.5  
 6505 8.6 235054.6 -2107.4  
 6506 9.1 235059.6 -2105.8  
 6507 9.5 235110.0 -2141.4  
 6508 8.4 235139.0 -2125.8  
 6509 10. 235144.6 -2138.5  
 6510 9.4 235155.7 -2122.1

6511 9.0 235156.3 -2144.7  
 6512 9.2 235229.3 -2148.9  
 6513 9.0 235236.2 -2143.0  
 6514 10. 235314.3 -2107.9  
 6515 8.8 235328.8 -2114.0  
 6516 8.3 235342.7 -2130.5  
 6517 8.8 235443.5 -2140.4  
 6518 9.3 235443.9 -2116.7  
 6519 10. 235502.0 -2159.8  
 6520 10. 235557.9 -2150.6

6521 9.1 235636.9 -2141.5  
 6522 9.7 235642.5 -2132.0  
 6523 9.6 235644.4 -2143.4  
 6524 8.8 235652.8 -2122.2  
 6525 9.5 235704.1 -2130.4  
 6526 9.0 235712.0 -2143.1  
 6527 8.8 235741.5 -2125.5  
 6528 9.2 235746.9 -2131.5  
 6529 9.3 235751.7 -2131.5  
 6530 9.3 235756.6 -2101.7

6531 10. 235802.0 -2132.1  
 6532 9.2 235831.9 -2127.1  
 6533 9.3 235854.1 -2105.6  
 6534 9.2 235858.0 -2139.0  
 6535 9.5 235915.3 -2115.9  
 6536 9.6 235917.7 -2122.5  
 6537 9.0 235922.6 -2153.3  
 6538 9.5 235958.1 -2119.0  
 1 10. 00013.2 -2243.4  
 2 9.1 00016.8 -2222.3

3 9.4 00027.7 -2200.5  
 4 9.7 00030.8 -2244.4  
 5 8.2 00053.5 -2238.9  
 6 8.2 00100.7 -2212.8  
 7 7.2 00130.3 -2259.0  
 8 7.1 00134.5 -2200.4  
 9 9.1 00150.3 -2252.1  
 10 9.8 00202.8 -2256.8  
 11 9.8 00208.7 -2250.7  
 12 8.3 00211.6 -2211.3

13 10. 00216.7 -2202.2  
 14 9.0 00218.4 -2242.7  
 15 9.0 00223.3 -2253.4  
 16 8.5 00311.9 -2256.6  
 17 7.5 00323.0 -2244.1  
 18 7.8 00355.0 -2202.9  
 19 9.6 00400.2 -2202.8  
 20 9.9 00402.5 -2205.0  
 21 9.8 00459.5 -2200.5  
 22 9.3 00500.1 -2222.1

23 8.5 00505.5 -2252.6  
 24 9.2 00516.1 -2245.2  
 25 9.6 00541.1 -2227.5  
 26 10. 00603.1 -2232.9  
 27 9.6 00611.8 -2250.0  
 28 9.4 00642.9 -2229.8  
 29 9.0 00658.2 -2222.7  
 30 9.5 00803.4 -2259.8  
 31 9.6 00803.7 -2257.4  
 32 10. 00813.2 -2217.1

33 9.6 00814.3 -2252.1  
 34 9.7 00833.3 -2204.2  
 35 10. 00902.8 -2220.2  
 36 9.7 00909.9 -2239.8  
 37 8.9 00916.1 -2221.0  
 38 9.0 00916.3 -2224.3  
 39 10. 01001.4 -2244.5  
 40 8.2 01042.0 -2238.2  
 41 9.6 01057.3 -2200.5  
 42 9.2 01103.4 -2200.8

43 9.1 01119.0 -2251.2  
 44 9.5 01202.5 -2228.4  
 45 7.5 01213.5 -2236.7  
 46 9.5 01233.5 -2233.6  
 47 9.3 01241.5 -2225.3  
 48 10. 01335.6 -2209.7  
 49 9.7 01357.9 -2204.2  
 50 9.6 01407.3 -2203.7  
 51 10. 01446.1 -2221.3  
 52 9.7 01513.2 -2257.8

53 9.6 01515.1 -2214.1  
 54 9.0 01522.2 -2244.3  
 55 9.5 01546.1 -2220.9  
 56 9.8 01634.8 -2204.6  
 57 9.5 01643.7 -2228.4  
 58 9.6 01712.5 -2240.1  
 59 9.5 01719.3 -2246.1  
 60 9.7 01742.7 -2210.6  
 61 9.3 01750.9 -2257.7  
 62 9.9 01805.8 -2242.5

63 9.1 01817.4 -2250.3  
 64 9.5 01817.8 -2230.1  
 65 7.0 01824.3 -2225.7  
 66 9.4 01831.4 -2250.7  
 67 9.5 01839.5 -2204.3  
 68 9.6 01840.3 -2231.0  
 69 9.0 01853.3 -2221.2  
 70 7.5 01858.4 -2228.7  
 71 9.2 01943.9 -2221.2  
 72 9.5 02043.0 -2247.1



-22 73 0h20m

73 9.9 02043.9 -2224.7  
74 9.0 02047.0 -2220.1  
75 9.2 02126.0 -2240.9  
76 10. 02205.6 -2237.3  
77 10. 02221.6 -2257.9  
78 8.5 02253.5 -2216.1  
79 9.7 02301.1 -2240.7  
80 9.5 02347.7 -2247.9  
81 8.0 02354.7 -2208.9  
82 9.8 02458.9 -2208.5

83 10. 02500.7 -2239.6  
84 9.9 02503.5 -2208.9  
85 9.5 02528.4 -2253.7  
86 8.6 02534.8 -2254.1  
87 9.5 02536.3 -2200.2  
88 8.3 02600.3 -2239.1  
89 9.5 02612.8 -2234.0  
90 9.1 02616.0 -2255.9  
91 9.3 02620.7 -2233.8  
92 9.3 02623.3 -2209.3

93 10. 02714.3 -2205.2  
94 8.8 02734.9 -2241.1  
95 9.1 02744.4 -2215.0  
96 8.3 02808.8 -2232.6  
97 9.5 02810.8 -2211.5  
98 9.8 02813.9 -2244.0  
99 9.4 02837.4 -2225.0  
100 8.8 02857.8 -2211.9  
101 9.5 02859.8 -2255.7  
102 9.4 02900.0 -2232.4

103 9.8 02932.9 -2203.0  
104 9.7 03044.4 -2224.2  
105 9.0 03051.0 -2212.8  
106 9.5 03101.2 -2258.3  
107 9.1 03115.9 -2205.0  
108 9.5 03127.3 -2208.7  
109 8.7 03147.6 -2204.5  
110 9.7 03215.6 -2208.0  
111 9.8 03225.7 -2252.9  
112 8.5 03225.8 -2222.5

113 10. 03405.2 -2236.5  
114 9.5 03418.4 -2210.8  
115 9.5 03447.8 -2242.8  
116 9.4 03525.3 -2225.8  
117 9.6 03530.2 -2205.7  
118 8.0 03537.8 -2227.0  
119 9.0 03547.4 -2245.3  
120 8.3 03555.3 -2230.1  
121 9.8 03555.4 -2242.1  
122 9.8 03613.7 -2210.1

123 9.4 03636.3 -2220.6  
124 8.0 03704.5 -2251.8  
125 9.5 03721.0 -2255.2  
126 9.0 03728.9 -2223.7  
127 5.5 03733.0 -2248.0  
128 8.7 03743.0 -2211.9  
129 9.0 03832.3 -2200.6  
130 9.7 03833.5 -2217.0  
131 9.8 03837.5 -2206.2  
132 9.0 03903.8 -2209.7

133 9.1 03956.5 -2227.4  
134 6.2 04049.6 -2230.5  
135 9.8 04105.4 -2205.2  
136 9.3 04141.1 -2231.9  
137 9.8 04141.1 -2218.0  
138 8.2 04207.6 -2211.4  
139 7.8 04246.3 -2253.6  
140 9.5 04315.2 -2236.8  
141 9.1 04409.4 -2214.8  
142 9.8 04434.8 -2237.0

143 9.9 04445.9 -2257.2  
144 9.1 04447.1 -2212.0  
145 9.3 04518.4 -2256.1  
146 9.2 04531.2 -2219.4  
147 7.8 04531.5 -2213.1  
148 9.3 04558.4 -2223.9  
149 10. 04619.0 -2251.4  
150 8.5 04624.5 -2259.7  
151 9.5 04645.5 -2201.7  
152 8.5 04646.5 -2204.8

153 9.0 04711.0 -2243.5  
154 10. 04730.7 -2210.0  
155 8.5 04731.6 -2215.4  
156 9.9 04739.6 -2210.7  
157 9.3 04742.0 -2231.0  
158 9.2 04801.0 -2226.7  
159 9.4 04805.3 -2212.0  
160 9.3 04808.4 -2249.6  
161 8.0 04812.1 -2243.2  
162 9.4 04839.5 -2233.6

163 9.8 04848.1 -2250.9  
164 9.5 04924.2 -2256.4  
165 9.8 04944.7 -2258.7  
166 9.1 04954.0 -2205.7  
167 9.2 05049.8 -2212.8  
168 9.8 05108.4 -2213.2  
169 9.8 05136.1 -2209.9  
170 9.9 05145.3 -2247.7  
171 9.5 05242.2 -2232.9  
172 9.0 05248.4 -2259.7

173 9.5 05300.3 -2240.0  
174 9.0 05304.4 -2258.2  
175 9.5 05306.4 -2211.7  
176 9.5 05312.3 -2216.9  
177 10. 05321.4 -2214.5  
178 9.5 05351.9 -2247.3  
179 9.1 05424.1 -2213.7  
180 9.7 05433.3 -2212.0  
181 9.9 05447.8 -2219.1  
182 8.0 05504.9 -2223.3

183 8.0 05520.4 -2223.3  
184 9.8 05543.5 -2225.3  
185 10. 05618.9 -2219.9  
186 10. 05631.7 -2207.1  
187 9.5 05640.4 -2214.1  
188 9.9 05702.3 -2228.5  
189 9.1 05703.1 -2253.6  
190 10. 05717.4 -2201.4  
191 10. 05739.3 -2218.3  
192 9.6 05836.7 -2232.4

193 8.2 05846.2 -2220.3  
194 9.9 05858.7 -2253.7  
195 9.0 05915.1 -2227.5  
196 9.1 05925.4 -2250.8  
197 9.4 05935.7 -2248.3  
198 9.2 05940.7 -2247.8  
199 10. 05948.7 -2254.6  
200 9.9 10012.2 -2227.2  
201 9.5 10037.3 -2236.2  
202 9.3 10059.4 -2257.4

203 8.7 10101.0 -2223.4  
204 9.5 10121.1 -2204.2  
205 9.1 10121.5 -2217.8  
206 9.5 10126.9 -2255.0  
207 9.3 10155.3 -2218.4  
208 9.0 10205.8 -2247.9  
209 9.3 10344.0 -2211.4  
210 9.0 10358.5 -2246.0  
211 8.8 10447.5 -2240.2  
212 9.4 10522.8 -2244.5

213 9.8 10557.0 -2218.1  
214 10. 10618.9 -2205.9  
215 9.9 10625.6 -2231.5  
216 8.8 10645.2 -2243.1  
217 9.5 10711.9 -2243.2  
218 9.5 10734.2 -2256.9  
219 9.8 10740.7 -2239.7  
220 10. 10759.6 -2211.9  
221 7.8 10822.1 -2229.6  
222 9.6 10904.6 -2200.5

223 8.7 10909.4 -2215.4  
224 8.0 10945.8 -2234.7  
225 10. 11101.8 -2220.7  
226 9.4 11102.9 -2213.1  
227 8.6 11247.6 -2212.8  
228 9.8 11337.7 -2213.4  
229 9.0 11407.6 -2254.0  
230 10. 11444.1 -2252.6  
231 8.8 11446.5 -2210.1  
232 9.5 11447.6 -2254.9

233 9.8 11457.4 -2201.8  
234 9.0 11500.0 -2242.8  
235 8.0 11506.4 -2217.6  
236 9.4 11532.2 -2232.7  
237 7.9 11544.4 -2211.0  
238 9.6 11606.5 -2209.1  
239 9.5 11626.1 -2221.2  
240 8.6 11713.2 -2242.3  
241 8.5 11716.7 -2230.5  
242 9.4 11723.2 -2255.2

243 10. 11739.6 -2203.8  
244 9.0 11755.3 -2246.3  
245 10. 11756.9 -2222.1  
246 9.6 11917.4 -2257.0  
247 10. 11932.8 -2248.8  
248 9.7 12012.7 -2214.6  
249 9.4 12017.4 -2239.2  
250 9.3 12056.0 -2253.8  
251 7.0 12102.0 -2247.5  
252 8.5 12109.1 -2218.4

253 9.4 12235.8 -2213.9  
254 5.0 12237.9 -2222.1  
255 10. 12351.0 -2222.6  
256 9.7 12359.3 -2236.5  
257 9.2 12414.6 -2215.6  
258 9.4 12416.2 -2202.5  
259 9.5 12418.4 -2203.4  
260 9.8 12449.6 -2204.3  
261 9.0 12612.7 -2234.5  
262 9.2 12613.6 -2228.5

263 9.4 12723.3 -2259.4  
264 9.8 12852.4 -2209.6  
265 9.1 12919.9 -2221.9  
266 8.9 12949.9 -2211.3  
267 9.5 13016.0 -2211.0  
268 9.8 13036.5 -2222.5  
269 9.6 13133.0 -2234.9  
270 9.8 13147.2 -2224.3  
271 9.4 13150.7 -2208.3  
272 6.0 13155.3 -2200.5

273 9.3 13207.1 -2222.5  
274 10. 13255.5 -2240.0  
275 9.5 13207.4 -2212.3  
276 9.3 13238.6 -2202.7  
277 7.8 13416.2 -2227.4  
278 8.7 13421.2 -2204.1  
279 9.2 13424.2 -2250.9  
280 8.5 13431.7 -2252.5  
281 9.5 13446.2 -2241.1  
282 9.3 13542.0 -2219.6

283 8.8 13551.7 -2223.0  
284 9.3 13602.3 -2203.9  
285 9.2 13608.3 -2203.8  
286 8.0 13620.7 -2221.2  
287 9.4 13714.0 -2209.3  
288 9.4 13722.3 -2236.2  
289 9.4 13748.1 -2221.4  
290 8.0 13833.4 -2243.2  
291 8.8 13849.4 -2254.1  
292 10. 13910.8 -2210.8

293 9.3 13934.0 -2208.7  
294 10. 13956.4 -2221.8  
295 10. 14017.5 -2257.0  
296 9.8 14021.5 -2252.1  
297 8.6 14113.6 -2257.0  
298 9.5 14132.8 -2201.6  
299 8.0 14135.6 -2256.5  
300 9.8 14214.1 -2251.6  
301 9.5 14332.2 -2254.3  
302 10. 14351.7 -2257.1

303 9.3 14359.1 -2215.3  
304 9.5 14417.2 -2253.5  
305 8.1 14449.3 -2253.1  
306 9.3 14509.8 -2244.7  
307 9.0 14527.9 -2203.3  
308 9.6 14557.3 -2237.7  
309 10. 14647.0 -2210.4  
310 9.8 14701.4 -2240.5  
311 9.1 14716.9 -2214.9  
312 10. 14752.8 -2215.8

313 9.9 14758.3 -2200.2  
314 9.8 14817.3 -2256.9  
315 9.5 14821.4 -2228.5  
316 10. 14822.5 -2240.2  
317 9.8 14826.4 -2216.4  
318 8.6 14839.0 -2245.5  
319 9.8 14841.2 -2223.4  
320 9.1 14902.0 -2243.1  
321 8.3 14908.4 -2232.0  
322 10. 14930.0 -2259.4

323 10. 15026.0 -2253.0  
324 9.0 15053.5 -2221.8  
325 8.0 15100.6 -2236.9  
326 9.8 15110.6 -2225.5  
327 10. 15122.9 -2202.7  
328 9.0 15201.7 -2254.3  
329 9.1 15205.2 -2253.9  
330 8.5 15216.4 -2258.7  
331 9.2 15216.4 -2257.1  
332 9.5 15221.9 -2249.2

333 9.5 15336.8 -2258.4  
334 8.2 15342.5 -2246.9  
335 9.7 15355.1 -2228.3  
336 9.5 15411.7 -2241.4  
337 9.8 15423.2 -2219.5  
338 9.0 15503.6 -2259.7  
339 8.4 15514.2 -2225.9  
340 9.7 15530.7 -2245.5  
341 7.0 15548.5 -2240.2  
342 9.0 15606.1 -2247.8

343 7.8 15615.3 -2236.6  
344 9.8 15633.7 -2203.6  
345 8.4 15659.5 -2203.3  
346 9.1 15706.0 -2242.2  
347 8.4 15707.9 -2235.5  
348 8.5 15726.1 -2243.3  
349 9.5 15812.5 -2219.1  
350 9.4 15908.5 -2219.3  
351 8.2 15914.0 -2227.0  
352 8.0 15914.8 -2251.3

353 9.2 15920.5 -2211.1  
354 9.8 15927.1 -2210.8  
355 9.8 15955.4 -2207.7  
356 9.8 15957.6 -2240.9  
357 9.5 15959.3 -2257.6  
358 9.5 20026.8 -2211.3  
359 9.5 20046.0 -2223.1  
360 9.1 20047.2 -2258.9  
361 8.8 20048.6 -2245.0  
362 9.4 20050.4 -2204.4

363 7.9 20113.4 -2202.5  
364 10. 20136.0 -2253.7  
365 9.4 20149.6 -2224.7  
366 9.8 20220.6 -2222.4  
367 9.3 20226.3 -2241.9  
368 9.2 20246.1 -2257.8  
369 9.5 20250.7 -2227.2  
370 9.5 20306.6 -2217.6  
371 9.7 20348.8 -2200.9  
372 9.6 20353.6 -2205.8

373 9.4 20427.2 -2230.8  
374 9.4 20434.2 -2223.9  
375 8.7 20452.2 -2206.4  
376 8.5 20520.5 -2214.6  
377 9.4 20611.9 -2238.6  
378 9.0 20652.5 -2241.7  
379 9.8 20805.4 -2230.4  
380 9.6 20858.7 -2222.5  
381 9.8 20859.4 -2203.7  
382 10. 20920.8 -2234.1

383 9.3 21000.2 -2255.0  
384 8.3 21021.4 -2231.4  
385 9.8 21021.8 -2210.3  
386 8.5 21056.6 -2250.0  
387 9.3 21201.0 -2230.8  
388 9.0 21207.0 -2234.7  
389 9.2 21244.7 -2218.6  
390 9.9 21321.6 -2241.5  
391 9.1 21341.7 -2221.8  
392 8.1 21344.2 -2247.2

393 9.3 21347.2 -2243.9  
394 10. 21425.7 -2215.5  
395 9.4 21515.6 -2210.8  
396 9.2 21530.8 -2222.6  
397 8.0 21535.1 -2232.0  
398 10. 21604.3 -2228.2  
399 9.9 21627.7 -2255.2  
400 9.9 21631.4 -2244.0  
401 8.9 21658.6 -2228.4  
402 9.3 21700.1 -2222.8

403 9.1 21710.8 -2216.4  
404 8.9 21724.8 -2207.3  
405 9.1 21800.7 -2224.0  
406 9.8 21804.5 -2212.8  
407 9.0 21825.8 -2211.5  
408 9.1 21835.9 -2240.0  
409 7.8 21844.2 -2228.1  
410 9.5 21848.8 -2229.1  
411 9.8 21858.6 -2215.7  
412 9.5 21939.7 -2218.4

413 9.1 21944.4 -2241.0  
414 9.3 22008.2 -2252.5  
415 9.6 22016.9 -2235.5  
416 9.4 22034.2 -2254.5  
417 9.4 22133.1 -2254.1  
418 9.2 22133.5 -2200.3  
419 9.2 22146.9 -2225.1  
420 9.7 22156.5 -2201.0  
421 9.5 22217.6 -2237.9  
422 8.4 22222.1 -2213.2

423 9.0 22248.3 -2257.4  
424 9.0 22252.7 -2205.0  
425 9.5 22324.0 -2249.5  
426 9.5 22327.3 -2252.7  
427 9.5 22357.4 -2211.1  
428 9.5 22359.5 -2244.9  
429 9.4 22359.6 -2232.0  
430 9.4 22403.7 -2240.1  
431 9.6 22422.5 -2215.2  
432 9.8 22446.4 -2230.5



433 10. 22455.9 -2210.1  
 434 9.0 22458.8 -2243.5  
 435 9.1 22524.9 -2254.9  
 436 9.1 22534.6 -2225.4  
 437 9.4 22535.7 -2235.5  
 438 8.8 22538.8 -2208.8  
 439 9.2 22654.7 -2218.9  
 440 9.5 22712.1 -2225.8  
 441 9.8 22720.4 -2237.9  
 442 9.6 22742.7 -2224.2

443 9.7 22746.5 -2253.1  
 444 6.8 22759.0 -2234.0  
 445 7.0 22921.2 -2202.1  
 446 9.4 22931.8 -2228.0  
 447 9.8 22940.6 -2202.0  
 448 9.4 22949.1 -2245.1  
 449 9.3 22954.7 -2253.6  
 450 9.1 23040.1 -2244.5  
 451 10. 23042.9 -2219.4  
 452 9.6 23114.6 -2242.7

453 10. 23126.0 -2238.4  
 454 8.5 23126.2 -2245.8  
 455 9.7 23217.1 -2201.1  
 456 9.2 23233.6 -2217.8  
 457 9.3 23233.2 -2239.0  
 458 9.7 23225.5 -2231.6  
 459 9.3 23328.9 -2258.2  
 460 8.0 23401.3 -2212.1  
 461 8.5 23420.1 -2233.0  
 462 9.5 23501.2 -2238.0

463 9.6 23529.5 -2255.2  
 464 9.2 23540.7 -2211.3  
 465 8.3 23552.5 -2205.1  
 466 10. 23553.0 -2211.2  
 467 9.0 23554.0 -2226.4  
 468 9.6 23617.5 -2208.5  
 469 9.8 23631.2 -2224.7  
 470 9.8 23730.1 -2221.0  
 471 9.5 23739.1 -2239.2  
 472 9.4 23751.5 -2242.5

473 9.6 23803.4 -2218.1  
 474 7.2 23827.9 -2246.8  
 475 10. 23853.6 -2207.8  
 476 10. 23914.4 -2204.4  
 477 7.3 23950.5 -2216.3  
 478 9.5 23954.6 -2251.4  
 479 6.6 24009.3 -2215.2  
 480 9.1 24032.0 -2218.6  
 481 9.4 24057.5 -2235.8  
 482 9.7 24120.1 -2221.2

483 9.7 24137.7 -2216.2  
 484 10. 24159.3 -2252.2  
 485 9.1 24246.8 -2215.7  
 486 10. 24305.5 -2215.2  
 487 8.3 24308.5 -2219.5  
 488 9.5 24316.2 -2244.6  
 489 8.9 24336.3 -2246.4  
 490 9.0 24405.4 -2209.0  
 491 9.1 24415.8 -2246.2  
 492 8.5 24436.1 -2201.4

493 9.2 24439.5 -2258.3  
 494 8.6 24447.5 -2214.9  
 495 9.1 24507.2 -2246.6  
 496 9.1 24508.4 -2206.4  
 497 9.2 24517.8 -2225.3  
 498 9.0 24517.9 -2248.7  
 499 9.4 24603.6 -2259.4  
 500 9.3 24626.4 -2218.3  
 501 9.5 24635.5 -2250.1  
 502 7.2 24647.4 -2241.4

503 6.3 24703.6 -2258.4  
 504 9.4 24713.6 -2258.0  
 505 9.3 24715.6 -2215.7  
 506 9.7 24742.7 -2224.4  
 507 9.9 24816.8 -2240.4  
 508 9.4 24835.7 -2247.6  
 509 9.7 24837.1 -2228.9  
 510 9.6 24837.8 -2223.5  
 511 9.0 24906.2 -2201.0  
 512 9.6 24909.7 -2212.4

513 10. 24913.7 -2201.4  
 514 9.2 24925.8 -2212.3  
 515 8.5 25006.3 -2254.1  
 516 9.4 25008.0 -2228.0  
 517 9.1 25028.6 -2200.4  
 518 9.2 25040.5 -2240.7  
 519 9.1 25044.2 -2242.7  
 520 8.7 25115.7 -2249.0  
 521 10. 25117.0 -2212.1  
 522 9.8 25132.8 -2208.5

523 10. 25157.4 -2217.7  
 524 9.3 25231.5 -2206.7  
 525 9.3 25324.9 -2253.1  
 526 9.7 25458.0 -2201.4  
 527 9.8 25507.1 -2223.5  
 528 9.4 25507.6 -2210.1  
 529 8.9 25516.5 -2241.4  
 530 8.1 25541.8 -2219.6  
 531 9.3 25548.2 -2224.7  
 532 9.2 25552.2 -2256.9

533 9.3 25553.8 -2230.5  
 534 9.7 25604.0 -2203.6  
 535 7.7 25624.2 -2225.3  
 536 8.8 25637.1 -2258.7  
 537 9.4 25707.7 -2209.6  
 538 9.0 25725.9 -2227.6  
 539 10. 25734.6 -2219.0  
 540 9.4 25801.8 -2258.5  
 541 9.2 25820.6 -2213.0  
 542 10. 25839.5 -2230.2

543 9.8 25849.2 -2234.3  
 544 9.0 25856.6 -2244.5  
 545 10. 25859.1 -2224.8  
 546 9.9 25912.7 -2223.1  
 547 9.5 25928.3 -2226.4  
 548 9.4 25934.0 -2222.6  
 549 9.1 30052.3 -2236.7  
 550 9.5 30113.8 -2248.3  
 551 9.5 30129.0 -2231.5  
 552 9.2 30210.6 -2215.7

553 9.6 30211.1 -2200.2  
 554 9.4 30227.2 -2212.0  
 555 9.6 30236.1 -2201.4  
 556 8.8 30238.9 -2223.4  
 557 9.6 30254.5 -2229.8  
 558 9.3 30333.3 -2244.1  
 559 8.5 30348.4 -2214.8  
 560 8.7 30359.1 -2218.0  
 561 9.1 30426.2 -2233.3  
 562 9.4 30432.6 -2226.1

563 9.3 30441.0 -2226.5  
 564 10. 30512.4 -2219.0  
 565 9.6 30534.8 -2215.3  
 566 9.5 30539.1 -2223.6  
 567 10. 30624.9 -2205.6  
 568 8.7 30701.3 -2231.0  
 569 8.7 30736.5 -2242.5  
 570 9.5 30745.8 -2222.0  
 571 10. 30745.9 -2212.5  
 572 8.7 30820.0 -2217.3

573 9.2 30905.6 -2243.9  
 574 9.5 30909.5 -2245.0  
 575 9.6 31003.7 -2219.5  
 576 9.0 31019.1 -2244.7  
 577 8.3 31022.5 -2237.3  
 578 10. 31023.3 -2210.0  
 579 9.8 31138.5 -2201.0  
 580 9.3 31143.4 -2259.7  
 581 9.1 31150.5 -2227.9  
 582 9.8 31241.0 -2204.9

583 9.1 31257.1 -2254.5  
 584 4.0 31303.5 -2216.9  
 585 9.5 31307.2 -2227.2  
 586 9.3 31313.0 -2257.1  
 587 9.4 31343.1 -2244.8  
 588 10. 31356.0 -2218.7  
 589 9.8 31426.7 -2221.0  
 590 9.8 31432.8 -2256.5  
 591 9.0 31442.5 -2204.8  
 592 9.1 31527.4 -2207.4

593 8.5 31535.9 -2237.3  
 594 9.8 31609.2 -2207.6  
 595 9.8 31614.1 -2201.1  
 596 9.3 31616.7 -2218.7  
 597 9.2 31701.5 -2214.6  
 598 9.0 31702.1 -2203.5  
 599 9.8 31717.3 -2249.2  
 600 9.5 31720.1 -2246.3  
 601 8.4 31757.4 -2210.8  
 602 10. 31817.2 -2201.0

603 9.5 31837.0 -2230.7  
 604 9.0 31902.4 -2230.0  
 605 8.5 31931.9 -2234.9  
 606 8.9 31943.6 -2240.7  
 607 8.7 32020.9 -2210.5  
 608 9.4 32021.6 -2202.7  
 609 9.4 32034.0 -2235.8  
 610 9.6 32041.5 -2226.0  
 611 9.3 32042.3 -2251.2  
 612 9.4 32123.4 -2257.2

613 9.7 32144.5 -2208.5  
 614 9.5 32316.9 -2238.6  
 615 9.5 32316.9 -2223.8  
 616 9.7 32356.7 -2247.6  
 617 9.4 32401.6 -2233.7  
 618 9.0 32420.3 -2249.2  
 619 9.2 32429.5 -2257.8  
 620 10. 32457.2 -2240.5  
 621 9.8 32459.8 -2219.5  
 622 9.7 32605.8 -2202.0

623 9.5 32607.5 -2222.9  
 624 9.4 32614.0 -2224.0  
 625 9.5 32634.6 -2206.5  
 626 10. 32636.9 -2215.5  
 627 8.8 32721.0 -2225.3  
 628 3.8 32722.3 -2207.4  
 629 8.8 32753.1 -2231.6  
 630 9.9 32811.9 -2241.1  
 631 8.5 32815.3 -2238.1  
 632 8.9 32907.3 -2220.7

633 9.5 32944.8 -2211.3  
 634 9.2 32951.5 -2247.6  
 635 8.0 33028.8 -2258.1  
 636 9.5 33038.2 -2228.3  
 637 8.7 33044.9 -2216.1  
 638 8.5 33132.4 -2234.6  
 639 8.3 33155.0 -2244.7  
 640 10. 33201.0 -2208.9  
 641 9.4 33206.6 -2221.7  
 642 9.4 33208.5 -2220.4

643 9.4 33242.3 -2212.7  
 644 8.0 33254.6 -2247.8  
 645 9.5 33303.2 -2226.8  
 646 9.4 33309.5 -2237.5  
 647 9.6 33336.3 -2254.1  
 648 8.3 33342.0 -2238.6  
 649 8.6 33402.4 -2259.4  
 650 9.0 33414.8 -2225.4  
 651 9.8 33445.9 -2222.8  
 652 8.8 33456.0 -2236.1

653 9.5 33512.8 -2252.6  
 654 9.0 33550.9 -2254.6  
 655 9.6 33553.9 -2207.6  
 656 9.4 33613.5 -2223.3  
 657 8.3 33616.8 -2226.4  
 658 9.0 33624.2 -2202.0  
 659 8.5 33657.1 -2244.6  
 660 9.5 33704.8 -2213.9  
 661 9.8 33716.4 -2203.0  
 662 8.6 33733.3 -2215.8

663 9.2 33735.7 -2211.3  
 664 9.0 33744.3 -2206.2  
 665 8.7 33745.5 -2221.8  
 666 9.3 33831.6 -2201.7  
 667 8.3 33834.5 -2201.7  
 668 9.8 33852.1 -2222.8  
 669 9.2 33852.6 -2225.7  
 670 9.5 33856.5 -2231.9  
 671 9.0 33908.5 -2248.2  
 672 8.2 33908.9 -2234.2

673 9.8 33931.5 -2254.3  
 674 9.4 33938.9 -2234.6  
 675 9.0 34002.4 -2225.2  
 676 9.5 34026.8 -2221.4  
 677 9.8 34050.0 -2217.3  
 678 10. 34051.1 -2206.4  
 679 9.0 34055.0 -2227.9  
 680 7.8 34147.4 -2201.3  
 681 9.5 34150.0 -2214.1  
 682 8.7 34202.0 -2238.5

683 9.4 34202.1 -2252.0  
 684 9.1 34202.6 -2242.4  
 685 9.5 34210.9 -2247.3  
 686 9.8 34222.5 -2210.0  
 687 9.4 34224.7 -2248.2  
 688 9.7 34322.3 -2214.6  
 689 8.7 34339.6 -2223.8  
 690 9.8 34404.8 -2208.1  
 691 9.7 34405.9 -2252.4  
 692 9.6 34412.7 -2235.6

693 8.8 34528.2 -2253.2  
 694 9.5 34540.6 -2221.5  
 695 9.0 34541.5 -2239.6  
 696 8.7 34624.3 -2219.0  
 697 7.0 34631.5 -2242.6  
 698 9.4 34653.4 -2251.0  
 699 9.9 34658.7 -2222.5  
 700 9.4 34703.4 -2222.3  
 701 9.5 34743.3 -2233.8  
 702 8.5 34750.6 -2249.0

703 9.2 34753.6 -2247.9  
 704 8.8 34807.3 -2215.8  
 705 9.3 34814.2 -2209.7  
 706 9.4 34816.9 -2210.0  
 707 9.9 34833.0 -2241.8  
 708 9.5 34845.7 -2249.6  
 709 9.0 34846.3 -2213.8  
 710 9.8 34904.6 -2215.8  
 711 9.1 34917.4 -2215.8  
 712 8.3 34918.5 -2201.0

713 9.1 34925.1 -2217.7  
 714 9.8 34939.8 -2200.2  
 715 9.8 34952.6 -2244.5  
 716 9.4 34952.7 -2249.5  
 717 9.4 35043.5 -2223.5  
 718 9.6 35051.5 -2211.7  
 719 8.8 35133.0 -2254.0  
 720 9.8 35215.2 -2210.4  
 721 9.8 35220.3 -2220.5  
 722 9.3 35238.1 -2229.1

723 9.1 35304.7 -2201.8  
 724 9.3 35328.9 -2219.1  
 725 9.5 35353.8 -2239.8  
 726 9.5 35424.2 -2208.7  
 727 7.7 35455.8 -2240.9  
 728 10. 35508.5 -2208.4  
 729 9.8 35513.2 -2253.2  
 730 9.0 35523.6 -2230.4  
 731 9.5 35525.9 -2218.8  
 732 9.3 35543.3 -2212.0

733 8.8 35550.1 -2203.4  
 734 9.3 35606.2 -2226.8  
 735 8.8 35626.6 -2223.4  
 736 7.0 35631.3 -2259.6  
 737 9.3 35708.3 -2235.5  
 738 9.4 35717.1 -2222.1  
 739 9.3 35722.5 -2206.2  
 740 9.8 35728.9 -2210.3  
 741 8.3 35729.4 -2204.0  
 742 9.8 35754.1 -2217.8

743 9.7 35829.1 -2220.5  
 744 8.3 35855.7 -2230.8  
 745 9.8 35915.8 -2256.0  
 746 9.4 35919.3 -2256.9  
 747 8.8 35946.3 -2221.6  
 748 9.9 35947.9 -2207.0  
 749 9.0 40001.9 -2255.5  
 750 9.0 40002.3 -2214.7  
 751 9.1 40014.6 -2249.4  
 752 9.5 40017.0 -2209.5

753 8.5 40024.6 -2203.9  
 754 6.3 40041.7 -2222.5  
 755 9.5 40047.9 -2232.1  
 756 9.0 40048.5 -2247.2  
 757 9.6 40049.5 -2231.1  
 758 9.9 40105.0 -2237.6  
 759 9.5 40109.9 -2247.0  
 760 9.0 40207.9 -2216.9  
 761 9.7 40221.6 -2219.3  
 762 9.5 40234.4 -2232.4

763 8.7 40237.6 -2213.5  
 764 9.5 40304.5 -2235.3  
 765 9.5 40315.3 -2224.8  
 766 9.0 40340.1 -2240.5  
 767 9.5 40423.5 -2227.0  
 768 9.5 40453.0 -2229.7  
 769 10. 40533.2 -2215.7  
 770 9.0 40538.0 -2229.2  
 771 9.3 40628.6 -2210.9  
 772 9.2 40635.8 -2203.0

773 9.5 40700.5 -2259.2  
 774 9.2 40703.8 -2230.0  
 775 9.4 40716.2 -2221.8  
 776 9.0 40718.8 -2205.4  
 777 8.8 40736.4 -2252.3  
 778 9.5 40737.5 -2249.7  
 779 9.4 40740.7 -2224.3  
 780 9.0 40809.5 -2219.8  
 781 9.3 40819.5 -2219.4  
 782 8.8 40852.0 -2221.2

783 9.3 40902.5 -2235.6  
 784 9.1 40922.1 -2229.7  
 785 8.8 40924.0 -2252.3  
 786 9.7 40926.8 -2218.0  
 787 6.8 40936.2 -2230.7  
 788 9.5 40944.1 -2229.6  
 789 9.0 40946.6 -2201.2  
 790 10. 40949.9 -2240.1  
 791 9.2 40950.3 -2249.4  
 792 8.8 40955.6 -2254.9



-22 793 4h10m

793 9.5 41001.8 -2211.2  
794 10. 41004.7 -2232.5  
795 8.5 41053.3 -2240.6  
796 10. 41108.3 -2204.9  
797 9.4 41110.2 -2233.1  
798 9.7 41120.3 -2206.1  
799 9.4 41126.0 -2222.2  
800 8.9 41134.7 -2253.7  
801 8.9 41140.9 -2243.6  
802 9.4 41215.6 -2221.6  
  
803 9.8 41222.0 -2248.2  
804 9.3 41248.2 -2225.0  
805 9.3 41311.0 -2252.2  
806 9.2 41329.0 -2202.5  
807 9.3 41342.6 -2214.4  
808 9.2 41346.5 -2213.1  
809 9.2 41531.3 -2206.8  
810 9.8 41532.8 -2234.1  
811 9.1 41548.1 -2248.4  
812 9.6 41643.4 -2237.8  
  
813 8.0 41652.2 -2227.7  
814 9.4 41728.7 -2223.9  
815 9.2 41732.4 -2234.6  
816 9.0 41738.2 -2244.9  
817 9.5 41801.8 -2229.3  
818 8.9 41809.8 -2204.6  
819 8.2 41826.4 -2212.4  
820 9.5 41915.8 -2240.0  
821 9.8 41922.1 -2241.5  
822 9.8 41940.8 -2216.6  
  
823 9.8 41959.1 -2213.6  
824 9.0 42002.5 -2209.3  
825 9.3 42002.5 -2225.9  
826 9.1 42022.3 -2258.2  
827 9.7 42055.5 -2238.7  
828 10. 42120.3 -2226.2  
829 9.7 42126.1 -2256.1  
830 9.4 42142.2 -2239.1  
831 9.3 42200.5 -2206.6  
832 9.5 42201.4 -2229.5  
  
833 10. 42227.9 -2210.4  
834 10. 42242.3 -2221.6  
835 9.3 42259.1 -2255.3  
836 10. 42300.7 -2215.7  
837 9.2 42302.8 -2251.5  
838 8.5 42307.5 -2250.2  
839 9.2 42313.8 -2242.4  
840 9.1 42345.5 -2229.0  
841 10. 42421.7 -2210.6  
842 9.4 42424.2 -2257.5  
  
843 9.6 42439.2 -2205.8  
844 9.7 42454.8 -2246.7  
845 9.2 42457.8 -2257.7  
846 9.7 42551.9 -2203.8  
847 9.5 42636.7 -2240.0  
848 9.5 42637.8 -2254.3  
849 9.8 42643.4 -2215.1  
850 9.4 42654.0 -2208.7  
851 9.7 42722.3 -2210.2  
852 9.6 42820.5 -2220.6  
  
853 9.0 42821.4 -2224.7  
854 9.4 42837.0 -2213.3  
855 9.4 42858.9 -2256.9  
856 9.5 42904.1 -2246.4  
857 9.7 42927.4 -2218.6  
858 9.0 42933.1 -2225.6  
859 9.7 42946.1 -2214.6  
860 9.6 42954.6 -2202.0  
861 8.0 43010.2 -2233.3  
862 9.4 43024.2 -2230.0  
  
863 8.2 43028.2 -2234.6  
864 8.6 43039.7 -2236.0  
865 9.7 43041.1 -2210.3  
866 9.4 43059.8 -2201.6  
867 7.0 43102.4 -2254.9  
868 9.7 43130.8 -2204.5  
869 9.3 43141.3 -2241.2  
870 9.8 43208.9 -2211.8  
871 9.5 43228.4 -2218.1  
872 9.0 43246.7 -2226.8  
  
873 9.5 43246.8 -2252.8  
874 9.8 43302.0 -2212.5  
875 9.5 43302.9 -2253.7  
876 9.8 43325.4 -2219.0  
877 9.5 43326.0 -2256.9  
878 8.0 43353.8 -2254.1  
879 9.8 43419.6 -2210.9  
880 9.7 43436.8 -2208.1  
881 9.1 43441.9 -2234.4  
882 8.9 43451.8 -2240.0

883 9.3 43513.9 -2239.9  
884 9.6 43530.1 -2203.3  
885 9.6 43540.4 -2203.0  
886 9.5 43540.4 -2243.5  
887 8.8 43551.9 -2253.3  
888 9.9 43607.6 -2215.7  
889 9.6 43617.3 -2233.4  
890 9.9 43622.3 -2232.8  
891 9.0 43630.2 -2207.0  
892 10. 43636.6 -2236.3  
  
893 9.8 43643.2 -2216.6  
894 9.3 43643.4 -2212.7  
895 8.5 43646.8 -2230.2  
896 8.2 43653.4 -2236.0  
897 9.3 43716.5 -2208.4  
898 9.2 43719.9 -2241.8  
899 9.8 43725.4 -2239.8  
900 9.1 43755.8 -2232.5  
901 9.5 43806.5 -2249.0  
902 9.3 43831.0 -2241.6  
  
903 9.2 43840.5 -2257.3  
904 8.9 43851.9 -2222.6  
905 9.2 43904.5 -2246.5  
906 9.7 43910.5 -2206.2  
907 9.1 43912.4 -2238.2  
908 9.5 43922.2 -2242.4  
909 9.5 43922.3 -2218.7  
910 9.4 43929.9 -2229.0  
911 9.3 43933.1 -2242.9  
912 10. 43933.1 -2205.3  
  
913 9.0 44029.4 -2233.9  
914 9.1 44052.5 -2253.1  
915 9.2 44102.3 -2228.5  
916 8.3 44113.5 -2249.0  
917 9.5 44213.4 -2221.8  
918 9.8 44231.7 -2207.0  
919 9.4 44252.0 -2239.9  
920 7.9 44259.0 -2208.6  
921 10. 44301.9 -2202.0  
922 9.8 44302.0 -2213.1  
  
923 9.8 44307.1 -2254.0  
924 8.4 44308.6 -2259.2  
925 9.6 44319.5 -2242.8  
926 9.2 44321.6 -2230.6  
927 9.8 44344.8 -2229.6  
928 8.9 44346.5 -2229.7  
929 9.5 44346.7 -2250.5  
930 9.8 44372.2 -2202.5  
931 10. 44385.6 -2240.2  
932 9.5 44449.6 -2250.3  
  
933 8.3 44523.5 -2234.2  
934 9.3 44524.9 -2225.0  
935 9.6 44555.0 -2244.7  
936 9.0 44615.3 -2222.9  
937 9.4 44629.5 -2232.2  
938 9.3 44633.6 -2242.9  
939 8.8 44652.7 -2209.0  
940 9.1 44704.7 -2256.2  
941 9.8 44706.3 -2205.9  
942 9.5 44712.0 -2225.4  
  
943 9.4 44724.5 -2225.6  
944 9.2 44745.5 -2225.7  
945 9.3 44749.2 -2247.0  
946 9.8 44752.1 -2236.2  
947 9.4 44805.4 -2206.5  
948 8.8 44833.5 -2220.5  
949 9.8 44852.2 -2255.8  
950 9.0 44902.9 -2203.1  
951 9.3 44903.6 -2233.7  
952 9.0 44941.4 -2220.2  
  
953 9.5 44942.8 -2209.0  
954 10. 44943.8 -2206.7  
955 9.2 44954.4 -2207.3  
956 9.7 44957.0 -2213.3  
957 9.4 45003.7 -2241.0  
958 9.7 45040.8 -2207.8  
959 8.2 45047.2 -2216.0  
960 8.5 45110.7 -2217.7  
961 9.0 45121.1 -2237.5  
962 10. 45127.3 -2254.4  
  
963 9.6 45139.5 -2223.3  
964 7.1 45154.9 -2214.4  
965 9.5 45159.4 -2208.2  
966 9.5 45182.2 -2239.6  
967 9.2 45248.1 -2224.0  
968 9.0 45250.2 -2252.6  
969 8.8 45325.8 -2205.1  
970 7.8 45329.1 -2237.5  
971 9.4 45343.7 -2239.3  
972 10. 45401.4 -2200.8

973 9.0 45418.6 -2228.7  
974 9.0 45446.3 -2249.1  
975 9.0 45459.4 -2257.1  
976 9.7 45500.3 -2252.5  
977 9.0 45517.7 -2236.0  
978 9.0 45535.0 -2214.3  
979 9.8 45537.2 -2232.1  
980 9.5 45541.3 -2247.5  
981 8.8 45557.0 -2217.8  
982 9.8 45600.6 -2256.3  
  
983 9.1 45619.0 -2210.0  
984 9.3 45624.4 -2259.5  
985 9.5 45653.9 -2209.1  
986 9.2 45657.7 -2217.4  
987 9.4 45706.6 -2230.2  
988 9.1 45711.7 -2232.9  
989 9.3 45715.8 -2244.4  
990 9.5 45725.4 -2218.6  
991 9.7 45725.2 -2209.3  
992 9.3 45757.2 -2225.3  
  
993 9.1 45800.9 -2200.1  
994 9.5 45839.0 -2202.2  
995 8.7 45840.6 -2206.5  
996 9.0 45852.3 -2227.5  
997 9.5 45859.8 -2253.4  
998 9.7 45913.2 -2247.8  
999 9.6 45913.1 -2244.1  
1000 3.7 45913.1 -2234.0  
1001 9.6 45926.0 -2206.9  
1002 8.7 45977.7 -2242.9  
  
1003 9.1 45993.8 -2257.0  
1004 9.1 45997.1 -2219.6  
1005 9.2 45998.2 -2221.6  
1006 9.2 45998.7 -2223.0  
1007 8.8 45999.9 -2254.2  
1008 9.8 50002.7 -2206.9  
1009 9.0 50016.6 -2212.3  
1010 10. 50017.5 -2210.1  
1011 9.6 50052.8 -2232.1  
1012 8.5 50110.4 -2250.6  
  
1013 10. 50115.7 -2207.0  
1014 9.4 50123.3 -2247.4  
1015 9.7 50131.9 -2240.1  
1016 9.0 50133.2 -2249.5  
1017 9.9 50137.0 -2246.5  
1018 8.4 50201.3 -2232.3  
1019 9.3 50208.9 -2250.4  
1020 9.4 50238.4 -2241.1  
1021 9.7 50249.7 -2205.3  
1022 8.0 50249.5 -2249.5  
  
1023 9.6 50306.6 -2209.7  
1024 9.4 50306.7 -2227.2  
1025 10. 50311.6 -2222.5  
1026 9.4 50318.3 -2220.0  
1027 9.3 50333.9 -2214.9  
1028 7.6 50334.4 -2241.2  
1029 8.8 50342.8 -2229.4  
1030 9.1 50352.4 -2204.9  
1031 10. 50353.7 -2200.4  
1032 9.8 50407.4 -2243.9  
  
1033 9.2 50425.5 -2249.9  
1034 8.8 50448.5 -2213.0  
1035 9.3 50451.2 -2241.4  
1036 9.3 50454.3 -2228.2  
1037 8.5 50514.8 -2221.0  
1038 9.5 50533.4 -2236.7  
1039 9.6 50605.5 -2202.6  
1040 9.3 50620.9 -2224.4  
1041 8.0 50641.5 -2241.1  
1042 9.7 50652.5 -2209.2  
  
1043 8.6 50719.6 -2210.0  
1044 9.8 50721.0 -2237.5  
1045 9.2 50723.4 -2229.9  
1046 9.2 50728.5 -2246.6  
1047 9.5 50729.1 -2230.9  
1048 10. 50744.8 -2202.7  
1049 9.5 50747.1 -2255.2  
1050 9.5 50748.8 -2209.1  
1051 9.0 50812.0 -2243.6  
1052 9.3 50826.0 -2241.4  
  
1053 9.9 50829.3 -2223.8  
1054 9.5 50848.2 -2239.3  
1055 9.8 50850.9 -2221.1  
1056 9.5 50843.8 -2221.1  
1057 9.0 50846.8 -2212.3  
1058 10. 50847.2 -2234.4  
1059 9.7 51004.0 -2238.1  
1060 8.0 51044.0 -2215.8  
1061 9.9 51052.5 -2226.7  
1062 10. 51055.0 -2231.8

1063 10. 51055.7 -2203.6  
1064 9.4 51133.9 -2214.6  
1065 9.2 51135.4 -2227.6  
1066 9.0 51148.6 -2257.1  
1067 9.4 51151.5 -2238.4  
1068 9.6 51215.9 -2255.1  
1069 9.2 51238.0 -2236.3  
1070 8.7 51238.5 -2235.2  
1071 8.4 51244.5 -2225.2  
1072 8.2 51252.6 -2208.1  
  
1073 9.0 51323.7 -2251.0  
1074 8.8 51329.4 -2224.1  
1075 9.8 51338.7 -2256.4  
1076 8.0 51340.6 -2241.8  
1077 9.5 51348.3 -2242.1  
1078 9.2 51358.1 -2243.4  
1079 9.1 51417.3 -2225.1  
1080 9.5 51417.7 -2249.9  
1081 8.6 51425.1 -2226.1  
1082 8.6 51438.1 -2234.0  
  
1083 9.5 51438.5 -2214.5  
1084 10. 51448.2 -2259.2  
1085 9.1 51453.4 -2250.8  
1086 9.8 51517.6 -2210.6  
1087 9.6 51537.7 -2246.9  
1088 9.4 51546.5 -2231.0  
1089 8.5 51557.6 -2235.0  
1090 9.7 51619.2 -2214.9  
1091 8.5 51621.6 -2231.7  
1092 9.4 51635.3 -2202.3  
  
1093 9.0 51647.2 -2256.4  
1094 10. 51654.2 -2241.9  
1095 9.3 51708.6 -2230.2  
1096 9.3 51707.3 -2224.2  
1097 9.0 51714.1 -2224.4  
1098 9.2 51737.9 -2209.9  
1099 7.3 51737.9 -2226.7  
1100 9.8 51748.6 -2227.8  
1101 9.1 51757.6 -2234.1  
1102 9.1 51830.7 -2234.2  
  
1103 8.8 51838.1 -2230.4  
1104 9.5 51921.6 -2230.8  
1105 9.0 51914.2 -2239.6  
1106 8.3 51920.3 -2252.4  
1107 9.5 52011.4 -2259.0  
1108 9.0 52025.7 -2238.9  
1109 8.7 52030.2 -2237.1  
1110 9.3 52035.9 -2257.6  
1111 8.8 52036.7 -2242.0  
1112 10. 52036.9 -2236.8  
  
1113 9.2 52039.1 -2226.1  
1114 9.5 52050.0 -2233.3  
1115 9.3 52101.1 -2235.6  
1116 9.0 52134.7 -2231.7  
1117 9.7 52136.1 -2215.8  
1118 9.5 52149.7 -2256.1  
1119 9.4 52161.2 -2277.2  
1120 9.5 52167.4 -2201.4  
1121 9.8 52211.0 -2221.3  
1122 6.6 52215.7 -2233.6  
  
1123 9.1 52224.9 -2259.7  
1124 9.5 52268.1 -2248.9  
1125 9.4 52254.6 -2244.4  
1126 8.9 52310.8 -2205.7  
1127 10. 52315.9 -2218.8  
1128 10. 52325.4 -2231.4  
1129 8.0 52334.1 -2250.2  
1130 10. 52345.4 -2215.8  
1131 8.9 52348.8 -2218.6  
1132 9.5 52353.9 -2200.2  
  
1133 9.8 52411.1 -2211.9  
1134 9.3 52421.6 -2246.8  
1135 9.8 52427.2 -2256.7  
1136 9.4 52480.3 -2220.4  
1137 10. 52517.1 -2204.5  
1138 9.5 52526.8 -2224.2  
1139 9.4 52526.4 -2259.3  
1140 9.5 52557.5 -2231.7  
1141 8.6 52557.5 -2220.1  
1142 9.8 52558.7 -2218.5  
  
1143 9.5 52664.9 -2240.2  
1144 9.8 52664.3 -2231.9  
1145 9.8 52673.1 -2242.9  
1146 9.5 52683.2 -2220.9  
1147 10. 52685.6 -2205.8  
1148 9.4 52708.0 -2202.1  
1149 9.8 52728.6 -2216.6  
1150 9.8 52730.8 -2250.6  
1151 9.1 52729.1 -2254.5  
1152 9.8 52743.5 -2245.2

-22 1152 5h27m



-22 1153 5h27m

1153 8.7 52748.6 -2250.4  
1154 9.8 52802.5 -2242.5  
1155 9.3 52804.1 -2214.0  
1156 9.5 52808.0 -2241.7  
1157 10.1 52809.3 -2200.2  
1158 9.8 52837.2 -2230.6  
1159 9.3 52840.1 -2243.5  
1160 9.7 52848.3 -2213.6  
1161 9.5 52848.7 -2247.7  
1162 9.6 52855.6 -2203.3

1163 9.7 52921.8 -2212.8  
1164 9.8 52948.5 -2235.9  
1165 9.8 52951.9 -2221.1  
1166 10.1 53012.0 -2241.2  
1167 9.5 53017.5 -2230.5  
1168 9.8 53056.4 -2200.2  
1169 9.0 53059.2 -2258.2  
1170 8.5 53105.3 -2255.5  
1171 8.5 53127.7 -2250.1  
1172 9.3 53134.0 -2226.1

1173 9.4 53140.6 -2205.8  
1174 9.5 53155.7 -2208.1  
1175 9.5 53211.7 -2248.9  
1176 9.5 53232.2 -2224.0  
1177 9.5 53234.4 -2222.3  
1178 9.5 53237.5 -2204.8  
1179 9.8 53244.7 -2248.9  
1180 9.3 53245.4 -2223.8  
1181 9.5 53300.1 -2244.5  
1182 9.4 53322.2 -2255.0

1183 9.7 53337.8 -2206.7  
1184 9.0 53339.7 -2254.8  
1185 9.2 53406.2 -2247.2  
1186 8.0 53420.1 -2243.6  
1187 8.2 53425.5 -2213.8  
1188 9.8 53440.8 -2215.0  
1189 10.1 53442.0 -2202.2  
1190 9.5 53450.0 -2238.0  
1191 9.1 53452.1 -2240.9  
1192 9.5 53534.2 -2252.5

1193 9.2 53558.5 -2251.6  
1194 6.5 53607.4 -2227.0  
1195 9.0 53614.6 -2233.7  
1196 9.8 53626.8 -2257.8  
1197 9.5 53630.2 -2243.5  
1198 9.8 53640.0 -2202.1  
1199 9.0 53646.5 -2228.5  
1200 9.5 53707.0 -2230.7  
1201 9.5 53728.4 -2223.1  
1202 8.0 53737.2 -2251.1

1203 9.4 53743.9 -2245.1  
1204 8.7 53758.3 -2252.5  
1205 9.0 53802.1 -2235.9  
1206 10.1 53804.9 -2219.2  
1207 9.5 53808.0 -2201.3  
1208 9.3 53811.3 -2201.5  
1209 9.0 53817.9 -2244.3  
1210 6.9 53823.5 -2228.4  
1211 4.0 53825.0 -2230.0  
1212 9.4 53837.3 -2253.1

1213 9.5 53839.1 -2219.2  
1214 9.7 53840.2 -2216.1  
1215 9.0 53842.3 -2255.0  
1216 9.3 53845.2 -2253.9  
1217 8.0 53847.1 -2234.1  
1218 9.0 53842.3 -2219.5  
1219 9.5 53911.0 -2231.2  
1220 9.3 53921.6 -2215.5  
1221 9.2 53922.3 -2256.2  
1222 9.4 53927.1 -2213.2

1223 10.1 53945.3 -2241.0  
1224 9.8 54002.2 -2244.3  
1225 9.5 54027.5 -2210.5  
1226 9.1 54033.3 -2255.0  
1227 9.1 54034.7 -2241.4  
1228 9.0 54035.9 -2247.7  
1229 9.0 54040.8 -2253.6  
1230 9.8 54053.2 -2206.0  
1231 9.5 54113.4 -2256.3  
1232 8.8 54151.8 -2245.5

1233 9.8 54157.7 -2213.6  
1234 8.0 54214.2 -2206.2  
1235 8.8 54221.1 -2232.8  
1236 9.5 54234.5 -2227.7  
1237 9.8 54234.8 -2244.0  
1238 8.2 54255.5 -2206.4  
1239 9.0 54258.6 -2219.5  
1240 9.1 54330.6 -2216.5  
1241 9.1 54331.6 -2212.6  
1242 9.4 54409.3 -2246.4

1243 8.7 54424.7 -2236.7  
1244 9.1 54455.3 -2215.3  
1245 9.3 54508.3 -2249.0  
1246 6.9 54524.8 -2257.8  
1247 9.4 54526.4 -2213.4  
1248 9.8 54531.1 -2255.5  
1249 9.0 54532.1 -2204.1  
1250 9.6 54536.4 -2259.9  
1251 9.5 54617.9 -2228.1  
1252 9.7 54625.7 -2249.4

1253 9.5 54641.5 -2200.1  
1254 9.0 54705.8 -2230.3  
1255 9.4 54713.4 -2224.0  
1256 8.2 54715.3 -2224.5  
1257 9.7 54800.4 -2210.4  
1258 9.3 54831.4 -2225.0  
1259 9.0 54839.6 -2252.0  
1260 9.1 54903.3 -2226.8  
1261 9.2 54924.1 -2240.7  
1262 9.5 54931.2 -2247.6

1263 9.8 54932.4 -2219.3  
1264 9.8 54940.0 -2235.5  
1265 9.1 54945.3 -2209.0  
1266 9.3 54950.7 -2246.8  
1267 10.1 54954.0 -2255.8  
1268 8.7 55004.5 -2217.5  
1269 6.7 55009.8 -2252.1  
1270 9.0 55018.6 -2240.5  
1271 9.2 55040.9 -2219.3  
1272 10.1 55041.2 -2242.9

1273 9.5 55045.4 -2256.2  
1274 9.3 55122.4 -2211.6  
1275 9.4 55122.8 -2212.8  
1276 9.3 55134.3 -2226.6  
1277 9.5 55139.1 -2243.0  
1278 9.5 55200.3 -2201.1  
1279 9.4 55226.8 -2254.0  
1280 9.8 55246.1 -2232.9  
1281 8.9 55255.0 -2235.2  
1282 9.3 55304.7 -2228.9

1283 9.0 55306.4 -2210.4  
1284 9.5 55312.9 -2239.0  
1285 9.5 55319.7 -2217.8  
1286 9.5 55351.2 -2247.5  
1287 8.9 55355.4 -2206.0  
1288 10.1 55430.2 -2204.3  
1289 10.1 55431.7 -2216.4  
1290 9.6 55435.0 -2233.8  
1291 9.7 55511.3 -2253.0  
1292 9.2 55521.9 -2231.3

1293 9.1 55532.4 -2209.3  
1294 9.4 55541.7 -2246.3  
1295 9.7 55546.2 -2216.1  
1296 9.5 55604.4 -2208.8  
1297 8.9 55612.2 -2218.6  
1298 9.6 55618.6 -2243.1  
1299 9.5 55622.3 -2225.6  
1300 9.6 55643.5 -2216.9  
1301 9.5 55659.0 -2228.8  
1302 10.1 55703.7 -2205.6

1303 8.8 55707.6 -2244.8  
1304 8.8 55725.1 -2249.0  
1305 9.6 55740.3 -2256.3  
1306 9.5 55750.2 -2218.9  
1307 9.8 55800.1 -2208.0  
1308 9.4 55806.0 -2230.4  
1309 9.7 55806.8 -2205.1  
1310 9.6 55830.3 -2234.7  
1311 9.7 55949.4 -2206.3  
1312 9.1 55956.1 -2238.5

1313 8.2 60027.0 -2208.2  
1314 8.8 60036.8 -2223.6  
1315 9.0 60049.4 -2205.2  
1316 9.8 60101.7 -2242.9  
1317 9.3 60102.9 -2258.0  
1318 10.1 60103.7 -2205.3  
1319 9.0 60106.8 -2215.3  
1320 8.5 60112.0 -2233.6  
1321 9.7 60135.7 -2206.0  
1322 9.0 60150.8 -2227.2

1323 9.6 60153.4 -2226.8  
1324 9.5 60200.5 -2234.3  
1325 9.3 60205.8 -2246.4  
1326 9.5 60238.4 -2229.3  
1327 6.2 60251.9 -2224.1  
1328 9.0 60331.3 -2217.4  
1329 8.1 60335.0 -2205.4  
1330 6.5 60342.7 -2245.3  
1331 9.3 60345.9 -2229.8  
1332 9.0 60427.6 -2220.1

1333 9.1 60441.0 -2203.5  
1334 9.9 60458.1 -2220.7  
1335 9.4 60502.4 -2223.1  
1336 8.7 60508.8 -2248.2  
1337 9.1 60535.3 -2252.2  
1338 10.1 60540.0 -2204.1  
1339 9.2 60542.2 -2246.4  
1340 9.7 60542.9 -2242.1  
1341 9.7 60600.1 -2207.9  
1342 8.5 60626.8 -2220.9

1343 8.5 60627.6 -2231.5  
1344 9.7 60658.1 -2206.2  
1345 9.8 60715.9 -2205.9  
1346 9.6 60717.0 -2217.1  
1347 9.2 60719.0 -2230.8  
1348 9.8 60726.7 -2215.0  
1349 9.2 60727.7 -2245.1  
1350 9.0 60731.0 -2259.9  
1351 9.7 60801.6 -2217.6  
1352 9.8 60814.4 -2240.5

1353 9.3 60814.6 -2251.5  
1354 8.4 60828.5 -2210.8  
1355 10.1 60858.4 -2254.6  
1356 8.7 60934.4 -2208.7  
1357 9.8 60948.0 -2208.5  
1358 9.0 60952.2 -2242.2  
1359 9.4 60953.1 -2244.3  
1360 9.5 61016.2 -2241.5  
1361 9.5 61025.5 -2228.0  
1362 9.4 61029.4 -2225.3

1363 9.0 61056.4 -2223.5  
1364 7.0 61058.5 -2239.4  
1365 8.0 61101.9 -2219.4  
1366 9.5 61126.1 -2236.0  
1367 9.8 61131.0 -2203.4  
1368 9.5 61204.4 -2224.9  
1369 9.6 61219.6 -2220.0  
1370 9.4 61223.6 -2246.6  
1371 9.3 61234.0 -2247.9  
1372 9.5 61237.9 -2257.5

1373 9.0 61239.5 -2210.8  
1374 9.4 61244.8 -2248.4  
1375 10.1 61252.2 -2242.9  
1376 9.1 61257.2 -2210.7  
1377 9.5 61307.5 -2258.5  
1378 8.7 61320.8 -2217.3  
1379 7.2 61331.0 -2202.6  
1380 9.4 61338.9 -2214.7  
1381 8.9 61341.7 -2237.1  
1382 9.7 61359.9 -2207.4

1383 9.5 61408.0 -2201.5  
1384 9.5 61415.3 -2246.2  
1385 9.7 61440.1 -2210.1  
1386 8.4 61501.4 -2216.6  
1387 9.8 61503.1 -2236.6  
1388 9.5 61505.6 -2201.2  
1389 8.8 61525.4 -2208.5  
1390 9.4 61536.8 -2240.8  
1391 9.5 61536.8 -2206.7  
1392 9.8 61538.6 -2200.3

1393 9.4 61600.9 -2253.0  
1394 8.6 61610.2 -2210.8  
1395 8.6 61621.5 -2231.7  
1396 9.2 61629.2 -2212.3  
1397 8.9 61708.8 -2210.8  
1398 9.1 61744.1 -2205.5  
1399 9.3 61750.0 -2200.3  
1400 9.8 61816.1 -2208.9  
1401 9.5 61842.5 -2259.6  
1402 9.8 61855.7 -2213.4

1403 9.0 61858.9 -2218.4  
1404 9.0 61905.0 -2230.0  
1405 8.9 61927.8 -2251.2  
1406 9.5 61948.0 -2255.0  
1407 9.6 61948.6 -2249.9  
1408 9.5 62000.7 -2244.1  
1409 9.5 62027.5 -2206.5  
1410 9.0 62027.8 -2249.6  
1411 9.1 62032.0 -2234.9  
1412 9.5 62036.5 -2231.7

1413 9.7 62044.6 -2201.3  
1414 9.5 62103.5 -2234.6  
1415 8.9 62108.9 -2246.9  
1416 9.2 62109.0 -2231.5  
1417 7.8 62120.7 -2202.1  
1418 9.5 62124.5 -2225.0  
1419 9.8 62144.5 -2232.6  
1420 9.1 62147.4 -2200.8  
1421 9.6 62151.7 -2259.7  
1422 9.3 62220.4 -2220.2

1423 9.5 62222.6 -2236.5  
1424 9.5 62232.1 -2239.4  
1425 9.4 62250.1 -2238.2  
1426 9.3 62254.5 -2213.7  
1427 9.8 62308.8 -2224.5  
1428 9.5 62315.9 -2224.7  
1429 7.0 62319.5 -2230.0  
1430 9.7 62333.1 -2204.9  
1431 9.5 62334.4 -2224.5  
1432 9.8 62344.3 -2236.7

1433 9.5 62350.3 -2237.4  
1434 7.5 62431.8 -2213.3  
1435 9.6 62436.9 -2200.5  
1436 9.8 62442.8 -2221.4  
1437 9.5 62449.6 -2207.0  
1438 9.7 62535.6 -2206.9  
1439 9.7 62536.1 -2243.2  
1440 9.7 62544.7 -2204.6  
1441 9.6 62547.0 -2203.1  
1442 9.5 62643.7 -2214.1

1443 9.8 62645.0 -2202.2  
1444 9.5 62645.2 -2248.1  
1445 9.8 62651.8 -2229.4  
1446 8.3 62704.0 -2230.0  
1447 8.0 62712.0 -2257.5  
1448 9.2 62731.9 -2259.9  
1449 9.2 62733.8 -2246.3  
1450 9.1 62736.1 -2235.5  
1451 9.0 62747.1 -2209.5  
1452 9.5 62753.5 -2247.1

1453 10.1 62803.4 -2206.7  
1454 9.9 62804.6 -2242.3  
1455 9.6 62836.1 -2236.2  
1456 9.2 62851.8 -2212.3  
1457 9.8 62854.6 -2232.3  
1458 5.0 62858.8 -2251.4  
1459 9.2 62859.7 -2241.4  
1460 9.1 62900.8 -2233.3  
1461 10.1 62917.2 -2244.5  
1462 9.1 62935.9 -2225.9

1463 9.5 62953.6 -2207.5  
1464 10.1 63002.4 -2252.1  
1465 10.1 63004.0 -2247.1  
1466 9.7 63008.5 -2247.4  
1467 9.2 63014.1 -2252.1  
1468 10.1 63018.7 -2202.7  
1469 9.4 63019.3 -2249.4  
1470 9.8 63022.5 -2212.5  
1471 9.4 63023.2 -2213.9  
1472 7.0 63025.3 -2229.5

1473 9.2 63036.2 -2241.3  
1474 8.3 63048.0 -2208.9  
1475 9.0 63049.9 -2253.8  
1476 9.8 63108.7 -2200.0  
1477 9.8 63112.1 -2231.2  
1478 9.5 63137.6 -2231.5  
1479 9.8 63139.0 -2238.3  
1480 9.5 63139.0 -2258.7  
1481 8.7 63210.2 -2238.5  
1482 10.1 63222.4 -2225.5

1483 9.0 63223.5 -2255.1  
1484 9.4 63227.0 -2229.4  
1485 9.4 63243.2 -2215.4  
1486 9.8 63250.3 -2251.3  
1487 9.5 63306.0 -2219.1  
1488 9.7 63322.5 -2259.3  
1489 9.7 63326.0 -2255.5  
1490 9.9 63326.6 -2238.2  
1491 8.3 63346.8 -2246.7  
1492 9.3 63411.1 -2238.5

1493 9.7 63507.3 -2208.8  
1494 8.8 63512.2 -2204.8  
1495 9.0 63551.3 -2220.8  
1496 9.4 63600.0 -2216.5  
1497 9.5 63600.9 -2253.6  
1498 8.5 63601.4 -2218.2  
1499 9.2 63609.3 -2221.9  
1500 9.5 63612.2 -2256.4  
1501 10.1 63613.4 -2246.0  
1502 10.1 63613.5 -2205.4

1503 8.7 63615.8 -2213.0  
1504 9.3 63632.6 -2229.1  
1505 6.8 63639.4 -2218.7  
1506 9.5 63640.5 -2248.7  
1507 9.5 63640.5 -2238.4  
1508 9.8 63716.8 -2200.3  
1509 9.4 63728.7 -2240.8  
1510 9.8 63755.4 -2255.8  
1511 9.5 63803.9 -2223.6  
1512 8.5 63806.1 -2225.6

-22 1512 6h38m



-22 1513 6h38m

1513 9.4 63806.5 -2233.4  
1514 8.4 63807.8 -2218.9  
1515 9.5 63809.4 -2248.2  
1516 8.5 63813.5 -2217.0  
1517 9.7 63820.3 -2204.9  
1518 9.1 63822.9 -2238.4  
1519 9.5 63854.1 -2208.8  
1520 10. 63935.7 -2246.7  
1521 10. 63940.3 -2221.7  
1522 9.3 63941.2 -2233.4

1523 9.1 63955.1 -2254.9  
1524 10. 64004.9 -2201.1  
1525 10. 64009.9 -2203.1  
1526 9.0 64011.6 -2218.8  
1527 8.3 64021.4 -2259.9  
1528 9.3 64033.0 -2202.1  
1529 9.5 64040.3 -2203.6  
1530 9.3 64051.0 -2237.1  
1531 8.7 64056.4 -2232.0  
1532 8.5 64109.3 -2254.4

1533 9.1 64111.6 -2219.0  
1534 9.4 64130.8 -2247.1  
1535 9.5 64131.2 -2231.2  
1536 9.2 64135.7 -2251.0  
1537 8.7 64139.0 -2200.5  
1538 9.4 64220.9 -2226.7  
1539 9.3 64224.1 -2245.6  
1540 9.6 64225.3 -2222.4  
1541 8.8 64220.2 -2243.7  
1542 9.8 64239.9 -2202.2

1543 10. 64241.0 -2229.2  
1544 9.6 64243.6 -2227.1  
1545 9.6 64250.2 -2213.5  
1546 9.8 64256.5 -2214.5  
1547 9.0 64258.0 -2233.3  
1548 9.5 64314.4 -2231.4  
1549 9.8 64320.6 -2221.4  
1550 10. 64326.9 -2204.4  
1551 9.7 64336.1 -2241.5  
1552 8.7 64346.9 -2218.5

1553 9.3 64351.5 -2215.0  
1554 9.2 64411.7 -2245.4  
1555 9.4 64422.8 -2254.4  
1556 9.4 64428.9 -2261.7  
1557 9.2 64436.7 -2249.5  
1558 9.1 64440.9 -2221.4  
1559 9.3 64441.6 -2209.7  
1560 9.5 64446.7 -2246.8  
1561 9.8 64455.5 -2219.7  
1562 9.5 64458.2 -2248.8

1563 9.6 64500.6 -2201.6  
1564 9.5 64520.0 -2202.5  
1565 9.4 64523.8 -2255.8  
1566 9.4 64525.6 -2201.7  
1567 9.7 64542.8 -2218.4  
1568 8.1 64546.1 -2208.0  
1569 9.2 64552.2 -2202.5  
1570 9.0 64559.8 -2231.7  
1571 8.9 64613.9 -2201.6  
1572 9.4 64624.7 -2238.6

1573 9.4 64632.3 -2211.5  
1574 8.2 64641.7 -2252.8  
1575 9.4 64649.5 -2213.0  
1576 9.1 64652.2 -2256.4  
1577 9.5 64702.8 -2231.3  
1578 8.8 64718.9 -2247.8  
1579 9.5 64726.4 -2236.1  
1580 9.3 64734.4 -2215.6  
1581 9.5 64747.2 -2220.8  
1582 7.8 64747.5 -2209.0

1583 9.0 64752.7 -2225.2  
1584 9.9 64805.5 -2211.0  
1585 9.3 64806.8 -2256.3  
1586 8.3 64811.2 -2215.6  
1587 9.5 64812.0 -2236.9  
1588 9.1 64817.2 -2252.4  
1589 9.3 64819.2 -2251.0  
1590 9.7 64834.4 -2212.9  
1591 9.5 64837.0 -2238.5  
1592 9.0 64839.9 -2236.0

1593 9.8 64842.9 -2206.2  
1594 8.4 64853.1 -2245.7  
1595 9.8 64853.6 -2242.0  
1596 9.5 64900.4 -2240.1  
1597 9.8 64915.8 -2227.0  
1598 9.5 64919.7 -2258.1  
1599 9.5 64922.2 -2231.1  
1600 8.7 64930.4 -2200.5  
1601 9.1 64939.2 -2212.5  
1602 6.0 64941.1 -2245.4

1603 8.9 64951.6 -2249.6  
1604 9.4 65006.2 -2218.2  
1605 9.7 65016.9 -2206.9  
1606 9.7 65017.9 -2211.5  
1607 9.5 65021.2 -2247.6  
1608 9.0 65026.2 -2220.0  
1609 8.0 65026.8 -2227.5  
1610 9.0 65027.5 -2227.3  
1611 9.5 65033.1 -2246.9  
1612 9.7 65034.1 -2228.8

1613 9.4 65051.5 -2243.3  
1614 9.9 65056.3 -2202.6  
1615 9.8 65102.5 -2235.7  
1616 7.1 65105.9 -2201.0  
1617 8.0 65129.8 -2258.2  
1618 9.5 65136.0 -2224.4  
1619 9.7 65143.9 -2208.2  
1620 9.7 65148.1 -2207.2  
1621 9.4 65149.2 -2235.4  
1622 9.8 65152.1 -2250.1

1623 9.1 65156.5 -2241.2  
1624 9.4 65217.1 -2217.0  
1625 9.4 65217.6 -2246.0  
1626 9.6 65224.9 -2250.9  
1627 9.1 65230.8 -2220.5  
1628 9.5 65234.7 -2254.9  
1629 9.1 65236.7 -2220.5  
1630 10. 65255.2 -2253.3  
1631 9.5 65257.7 -2214.0  
1632 9.7 65313.5 -2204.3

1633 8.8 65313.9 -2237.8  
1634 9.5 65313.9 -2219.4  
1635 9.5 65322.3 -2231.5  
1636 9.8 65323.1 -2223.6  
1637 9.7 65324.5 -2200.3  
1638 9.4 65324.7 -2227.9  
1639 8.3 65328.2 -2254.8  
1640 9.5 65338.3 -2229.8  
1641 9.1 65341.2 -2202.9  
1642 8.7 65354.3 -2221.4

1643 9.2 65355.4 -2202.8  
1644 8.5 65356.3 -2248.8  
1645 9.0 65404.8 -2231.3  
1646 9.5 65409.1 -2252.0  
1647 8.0 65407.7 -2227.0  
1648 9.2 65427.6 -2254.8  
1649 9.3 65430.7 -2213.5  
1650 9.5 65430.1 -2220.5  
1651 8.4 65441.3 -2210.9  
1652 9.3 65443.2 -2225.1

1653 9.0 65454.1 -2219.8  
1654 8.7 65457.5 -2248.7  
1655 9.5 65458.2 -2257.1  
1656 9.5 65505.1 -2252.9  
1657 9.3 65510.3 -2222.2  
1658 10. 65514.2 -2201.7  
1659 10. 65514.9 -2217.9  
1660 9.0 65516.7 -2259.7  
1661 9.3 65522.1 -2221.7  
1662 9.0 65524.7 -2227.5

1663 9.5 65525.5 -2227.5  
1664 9.4 65537.0 -2242.4  
1665 9.5 65535.3 -2229.5  
1666 8.7 65540.1 -2254.7  
1667 9.8 65553.7 -2241.3  
1668 9.5 65553.8 -2248.0  
1669 9.5 65614.9 -2217.4  
1670 9.7 65618.1 -2252.0  
1671 9.5 65620.6 -2233.9  
1672 9.8 65651.1 -2254.9

1673 9.6 65659.0 -2259.3  
1674 8.4 65659.9 -2236.8  
1675 9.2 65705.1 -2221.6  
1676 9.1 65705.7 -2225.6  
1677 9.0 65707.6 -2250.9  
1678 8.5 65716.1 -2221.5  
1679 9.8 65722.7 -2256.4  
1680 9.1 65732.2 -2244.8  
1681 8.8 65749.8 -2206.1  
1682 9.6 65809.2 -2214.2

1683 9.0 65809.6 -2232.1  
1684 9.4 65812.0 -2232.6  
1685 9.5 65821.6 -2215.5  
1686 9.5 65829.9 -2240.1  
1687 9.5 65831.0 -2219.2  
1688 9.5 65905.0 -2251.6  
1689 9.5 65915.2 -2200.3  
1690 9.8 65923.8 -2249.1  
1691 9.5 65926.4 -2245.0  
1692 9.8 65928.1 -2214.5

1693 10. 65928.4 -2235.2  
1694 9.5 65931.9 -2228.4  
1695 9.8 65940.8 -2200.4  
1696 9.0 65949.6 -2251.6  
1697 9.5 65949.8 -2203.4  
1698 10. 65956.0 -2213.5  
1699 9.4 65957.1 -2214.6  
1700 9.4 65959.9 -2240.2  
1701 9.8 70019.2 -2256.4  
1702 8.5 70019.6 -2252.3

1703 9.3 70024.5 -2247.0  
1704 9.8 70042.6 -2221.7  
1705 9.8 70059.8 -2204.0  
1706 9.4 70119.0 -2245.0  
1707 9.3 70121.9 -2236.4  
1708 9.0 70132.6 -2211.4  
1709 9.7 70144.3 -2235.0  
1710 10. 70144.6 -2210.5  
1711 9.0 70147.2 -2200.3  
1712 9.0 70205.6 -2212.8

1713 8.9 70212.9 -2234.9  
1714 9.0 70213.2 -2210.6  
1715 9.0 70226.6 -2256.0  
1716 9.5 70227.5 -2224.1  
1717 9.1 70235.2 -2250.9  
1718 9.4 70237.7 -2218.8  
1719 9.0 70244.6 -2228.8  
1720 9.4 70258.6 -2232.7  
1721 9.0 70311.1 -2232.4  
1722 9.8 70311.1 -2225.6

1723 8.9 70313.1 -2215.6  
1724 9.8 70322.4 -2213.3  
1725 9.6 70326.6 -2247.5  
1726 9.3 70331.3 -2226.3  
1727 9.5 70332.3 -2202.6  
1728 9.0 70333.0 -2247.1  
1729 8.7 70338.7 -2234.4  
1730 9.5 70339.7 -2258.9  
1731 9.1 70404.5 -2210.0  
1732 9.4 70404.5 -2210.0

1733 9.6 70404.9 -2234.6  
1734 9.4 70406.7 -2239.5  
1735 9.3 70416.4 -2244.1  
1736 9.4 70423.1 -2254.1  
1737 9.8 70426.7 -2216.0  
1738 9.6 70431.4 -2203.2  
1739 9.7 70442.7 -2217.7  
1740 9.0 70505.3 -2217.7  
1741 9.0 70504.4 -2245.0  
1742 9.7 70515.8 -2209.7

1743 9.0 70519.1 -2221.9  
1744 9.5 70521.7 -2207.8  
1745 9.5 70536.4 -2202.4  
1746 9.4 70540.1 -2258.6  
1747 10. 70558.1 -2200.7  
1748 9.9 70600.1 -2217.7  
1749 8.5 70603.6 -2244.3  
1750 8.7 70616.4 -2245.4  
1751 8.8 70632.7 -2240.2  
1752 9.0 70642.8 -2237.1

1753 10. 70646.8 -2208.3  
1754 9.1 70657.0 -2228.4  
1755 9.4 70705.3 -2207.9  
1756 6.0 70714.5 -2225.4  
1757 9.4 70725.9 -2248.4  
1758 9.5 70727.0 -2223.0  
1759 9.5 70729.0 -2211.2  
1760 9.2 70739.3 -2239.6  
1761 6.8 70740.3 -2239.5  
1762 9.1 70757.2 -2227.0

1763 9.0 70803.6 -2226.1  
1764 8.5 70812.8 -2241.8  
1765 9.0 70826.9 -2218.3  
1766 9.8 70838.4 -2235.5  
1767 8.0 70855.6 -2231.6  
1768 9.5 70900.7 -2233.9  
1769 8.7 70902.3 -2244.2  
1770 9.8 70904.5 -2252.9  
1771 9.0 70918.2 -2235.5  
1772 9.3 70924.4 -2209.3

1773 9.8 70924.5 -2224.3  
1774 9.8 70926.4 -2201.0  
1775 9.2 70931.5 -2210.4  
1776 9.2 70959.9 -2203.4  
1777 10. 71002.2 -2202.9  
1778 9.5 71002.8 -2222.4  
1779 9.6 71006.6 -2200.4  
1780 9.0 71009.7 -2235.6  
1781 9.3 71014.9 -2200.9  
1782 9.5 71018.3 -2257.8

1783 9.1 71019.7 -2200.7  
1784 9.4 71030.6 -2228.4  
1785 8.3 71032.9 -2233.6  
1786 9.4 71047.4 -2249.5  
1787 9.8 71047.5 -2207.7  
1788 9.4 71105.4 -2223.7  
1789 8.8 71110.6 -2249.2  
1790 8.5 71122.2 -2226.7  
1791 9.8 71122.2 -2213.0  
1792 9.8 71123.0 -2212.1

1793 8.7 71124.1 -2234.4  
1794 8.3 71133.9 -2255.5  
1795 8.7 71141.5 -2256.0  
1796 9.7 71143.9 -2218.7  
1797 9.5 71146.4 -2224.5  
1798 7.0 71201.5 -2205.0  
1799 9.3 71205.2 -2215.5  
1800 9.5 71214.0 -2229.8  
1801 9.5 71217.1 -2229.5  
1802 9.7 71220.7 -2217.4

1803 9.7 71224.8 -2216.9  
1804 9.8 71228.0 -2219.3  
1805 9.3 71228.9 -2251.2  
1806 9.5 71230.0 -2252.8  
1807 9.1 71230.0 -2233.0  
1808 9.4 71250.7 -2241.3  
1809 9.5 71304.4 -2207.9  
1810 9.5 71307.0 -2212.4  
1811 9.5 71318.9 -2209.5  
1812 9.5 71321.5 -2226.7

1813 9.8 71331.6 -2204.8  
1814 9.4 71333.0 -2248.0  
1815 9.2 71339.7 -2238.2  
1816 9.8 71352.3 -2219.9  
1817 8.7 71402.1 -2237.8  
1818 9.5 71404.9 -2255.4  
1819 9.3 71426.3 -2221.6  
1820 9.3 71429.5 -2228.8  
1821 9.7 71434.9 -2227.8  
1822 10. 71440.5 -2221.1

1823 6.8 71444.0 -2234.8  
1824 10. 71446.3 -2213.2  
1825 9.3 71447.3 -2254.2  
1826 9.4 71450.4 -2256.9  
1827 9.7 71500.2 -2259.9  
1828 9.3 71505.8 -2241.4  
1829 9.8 71516.1 -2211.8  
1830 9.3 71516.5 -2205.4  
1831 10. 71526.9 -2214.4  
1832 10. 71532.4 -2245.0

1833 9.7 71534.2 -2213.1  
1834 9.5 71537.5 -2242.2  
1835 10. 71537.9 -2255.0  
1836 9.6 71604.1 -2227.8  
1837 9.1 71620.4 -2245.1  
1838 9.0 71624.6 -2252.2  
1839 9.3 71626.4 -2208.8  
1840 9.4 71626.8 -2225.9  
1841 9.8 71629.6 -2228.8  
1842 9.4 71631.0 -2222.5

1843 9.6 71650.3 -2203.1  
1844 9.7 71652.2 -2221.1  
1845 9.4 71656.1 -2254.4  
1846 9.8 71700.6 -2202.1  
1847 9.1 71712.9 -2223.9  
1848 9.0 71724.1 -2214.5  
1849 9.0 71726.7 -2237.5  
1850 9.1 71729.8 -2241.8  
1851 9.1 71730.6 -2244.7  
1852 8.8 71734.7 -2235.1

1853 7.6 71801.1 -2204.9  
1854 9.5 71803.6 -2256.7  
1855 6.7 71807.7 -2238.0  
1856 9.4 71809.4 -2221.1  
1857 9.4 71822.9 -2242.5  
1858 10. 71827.8 -2201.1  
1859 9.8 71833.7 -2238.4  
1860 8.9 71845.3 -2236.1  
1861 9.8 71902.7 -2238.5  
1862 9.8 71906.0 -2214.8

1863 10. 71933.5 -2256.0  
1864 9.0 71937.1 -2234.7  
1865 9.4 71939.1 -2202.9  
1866 9.6 71939.9 -2211.1  
1867 9.8 71946.8 -2238.1  
1868 9.8 72006.0 -2255.1  
1869 9.7 72009.0 -2255.3  
1870 9.3 72026.6 -2207.8  
1871 8.0 72030.2 -2247.6  
1872 9.3 72040.8 -2242.1

-22 1872 7h20m



-22 1873 7h20m

1873 9.8 72041.2 -2236.7  
1874 6.0 72049.9 -2247.7  
1875 9.3 72050.8 -2244.5  
1876 9.3 72053.3 -2226.9  
1877 9.8 72122.0 -2227.1  
1878 7.0 72133.1 -2234.0  
1879 9.4 72144.3 -2245.7  
1880 9.2 72144.8 -2205.7  
1881 9.7 72201.5 -2259.9  
1882 9.2 72202.0 -2228.2

1883 9.6 72205.4 -2217.6  
1884 9.7 72209.3 -2214.5  
1885 10. 72226.7 -2246.1  
1886 9.9 72227.7 -2227.3  
1887 9.9 72235.2 -2250.2  
1888 9.9 72240.0 -2250.0  
1889 8.7 72244.9 -2251.5  
1890 9.8 72246.6 -2200.2  
1891 10. 72255.0 -2232.1  
1892 9.4 72258.6 -2236.0

1893 9.7 72314.5 -2207.3  
1894 9.7 72318.5 -2207.6  
1895 9.4 72337.4 -2255.0  
1896 9.1 72341.4 -2228.6  
1897 6.0 72341.9 -2243.3  
1898 9.0 72345.7 -2216.0  
1899 9.7 72349.0 -2211.4  
1900 9.2 72355.3 -2211.9  
1901 9.8 72406.1 -2201.5  
1902 8.3 72408.8 -2259.4

1903 9.8 72408.9 -2210.1  
1904 9.5 72415.4 -2244.0  
1905 9.4 72416.9 -2239.5  
1906 9.2 72427.6 -2235.3  
1907 9.4 72441.2 -2205.5  
1908 9.5 72513.5 -2232.6  
1909 8.5 72520.4 -2247.8  
1910 9.2 72539.3 -2214.5  
1911 10. 72540.1 -2223.7  
1912 8.3 72548.2 -2236.9

1913 9.8 72553.6 -2228.6  
1914 10. 72557.2 -2204.8  
1915 9.4 72558.4 -2210.3  
1916 9.4 72602.6 -2228.8  
1917 8.7 72610.5 -2231.4  
1918 9.7 72613.2 -2204.3  
1919 9.3 72630.1 -2229.6  
1920 10. 72631.6 -2236.7  
1921 9.3 72633.6 -2238.7  
1922 9.8 72648.4 -2228.3

1923 9.6 72649.5 -2231.7  
1924 9.8 72655.3 -2252.0  
1925 9.5 72659.9 -2237.2  
1926 9.6 72703.2 -2244.6  
1927 9.8 72704.7 -2252.9  
1928 9.1 72717.4 -2257.0  
1929 9.7 72728.9 -2225.7  
1930 9.9 72735.2 -2204.9  
1931 9.4 72745.7 -2241.1  
1932 9.4 72754.3 -2222.2

1933 9.5 72822.1 -2251.9  
1934 9.5 72824.8 -2220.5  
1935 9.5 72827.1 -2226.6  
1936 8.8 72831.1 -2253.4  
1937 9.3 72831.6 -2256.2  
1938 8.4 72834.6 -2227.7  
1939 9.3 72845.2 -2223.1  
1940 9.6 72846.5 -2245.2  
1941 9.5 72847.7 -2248.5  
1942 9.5 72850.9 -2219.2

1943 9.6 72857.4 -2214.8  
1944 9.9 72913.2 -2212.5  
1945 9.0 72926.7 -2231.3  
1946 9.4 72927.5 -2212.1  
1947 9.5 72954.4 -2257.6  
1948 9.6 73009.0 -2244.0  
1949 9.4 73011.3 -2215.2  
1950 9.7 73011.4 -2247.5  
1951 9.5 73017.9 -2252.7  
1952 9.6 73026.2 -2207.5

1953 9.1 73026.9 -2258.7  
1954 9.5 73107.5 -2228.8  
1955 9.8 73121.7 -2234.4  
1956 9.3 73128.5 -2218.4  
1957 9.5 73129.8 -2247.1  
1958 9.9 73132.6 -2216.7  
1959 8.6 73135.6 -2217.7  
1960 10. 73150.0 -2206.5  
1961 8.8 73225.7 -2225.7  
1962 9.8 73241.8 -2237.5

1963 9.8 73253.7 -2257.1  
1964 9.8 73254.4 -2245.5  
1965 9.3 73254.6 -2223.6  
1966 9.5 73255.1 -2221.3  
1967 10. 73331.9 -2228.1  
1968 10. 73333.5 -2249.1  
1969 9.8 73334.3 -2219.4  
1970 9.5 73337.4 -2242.0  
1971 8.0 73344.7 -2256.7  
1972 9.7 73355.9 -2211.1

1973 9.5 73409.7 -2254.1  
1974 9.1 73423.0 -2203.6  
1975 9.7 73423.9 -2207.6  
1976 10. 73430.2 -2206.8  
1977 9.6 73430.4 -2222.4  
1978 8.9 73440.5 -2205.0  
1979 10. 73446.1 -2238.7  
1980 9.5 73452.6 -2222.6  
1981 9.6 73456.0 -2219.2  
1982 10. 73505.3 -2239.4

1983 9.9 73511.1 -2202.1  
1984 9.8 73511.3 -2209.6  
1985 10. 73524.7 -2253.1  
1986 7.7 73533.2 -2204.0  
1987 9.8 73543.5 -2230.9  
1988 9.5 73548.4 -2201.4  
1989 9.4 73619.2 -2203.9  
1990 9.8 73628.6 -2236.3  
1991 9.1 73639.8 -2223.9  
1992 9.5 73645.2 -2221.4

1993 9.5 73701.9 -2202.5  
1994 9.0 73703.0 -2252.1  
1995 9.0 73703.9 -2247.9  
1996 10. 73713.2 -2251.8  
1997 5.3 73715.0 -2206.3  
1998 5.6 73728.8 -2211.1  
1999 9.5 73741.5 -2233.9  
2000 9.6 73747.5 -2258.7  
2001 9.2 73752.4 -2227.3  
2002 9.2 73816.3 -2200.0

2003 9.8 73816.9 -2249.1  
2004 9.4 73825.5 -2230.6  
2005 9.5 73849.5 -2230.4  
2006 9.0 73854.5 -2217.2  
2007 9.2 73855.5 -2250.6  
2008 8.7 73902.3 -2213.8  
2009 10. 73903.2 -2204.1  
2010 9.8 73906.3 -2223.7  
2011 9.8 73909.6 -2211.9  
2012 9.6 73934.8 -2245.5

2013 9.0 73940.4 -2240.2  
2014 8.9 73948.5 -2215.7  
2015 8.2 73951.1 -2254.6  
2016 7.7 73954.0 -2247.0  
2017 9.7 74017.3 -2242.0  
2018 9.4 74029.2 -2236.0  
2019 9.8 74029.7 -2252.2  
2020 9.7 74030.3 -2242.5  
2021 9.7 74033.0 -2243.1  
2022 8.5 74036.0 -2251.0

2023 9.3 74037.7 -2213.4  
2024 9.5 74047.3 -2242.3  
2025 9.4 74053.4 -2204.5  
2026 9.4 74053.7 -2207.0  
2027 6.3 74058.3 -2209.9  
2028 9.8 74107.3 -2255.6  
2029 9.8 74117.2 -2212.7  
2030 9.6 74124.5 -2215.4  
2031 9.5 74139.8 -2245.4  
2032 9.7 74202.3 -2208.3

2033 9.3 74216.5 -2218.7  
2034 9.6 74220.0 -2233.6  
2035 9.5 74235.2 -2223.5  
2036 9.7 74237.7 -2246.5  
2037 9.5 74258.0 -2203.9  
2038 9.8 74258.9 -2229.8  
2039 8.3 74308.2 -2212.0  
2040 9.4 74316.4 -2231.1  
2041 9.3 74330.1 -2200.1  
2042 10. 74344.0 -2253.4

2043 9.1 74346.8 -2228.3  
2044 9.5 74348.9 -2247.4  
2045 9.1 74358.4 -2247.6  
2046 9.5 74403.8 -2216.4  
2047 9.3 74418.4 -2232.0  
2048 8.9 74420.6 -2209.1  
2049 9.1 74431.8 -2248.7  
2050 10. 74457.7 -2248.5  
2051 9.5 74459.1 -2250.0  
2052 8.5 74502.5 -2240.2

2053 9.0 74504.2 -2209.1  
2054 9.0 74507.4 -2252.2  
2055 9.0 74524.6 -2241.4  
2056 9.5 74533.9 -2236.0  
2057 9.8 74601.0 -2210.5  
2058 9.6 74613.9 -2256.0  
2059 8.7 74621.3 -2219.1  
2060 9.7 74636.1 -2202.0  
2061 9.8 74651.6 -2222.7  
2062 9.1 74655.7 -2245.5

2063 9.5 74702.5 -2243.1  
2064 9.5 74712.0 -2257.1  
2065 7.4 74726.4 -2256.5  
2066 7.5 74727.0 -2248.4  
2067 9.8 74741.9 -2241.2  
2068 9.5 74745.9 -2208.3  
2069 9.7 74746.0 -2204.9  
2070 9.4 74752.8 -2208.8  
2071 9.4 74804.9 -2254.2  
2072 9.8 74840.8 -2209.4

2073 9.2 74846.3 -2229.7  
2074 9.0 74902.4 -2237.2  
2075 9.0 74905.5 -2244.1  
2076 9.6 74910.8 -2205.7  
2077 9.5 74911.3 -2252.3  
2078 9.4 74916.5 -2205.7  
2079 9.8 74944.8 -2209.4  
2080 9.5 74947.4 -2259.2  
2081 9.0 74950.4 -2238.0  
2082 8.8 74955.5 -2210.4

2083 9.4 74959.0 -2206.7  
2084 8.0 75016.9 -2237.4  
2085 9.3 75024.2 -2222.0  
2086 9.7 75028.7 -2207.1  
2087 4.3 75037.2 -2229.8  
2088 9.1 75043.1 -2226.4  
2089 9.3 75052.2 -2230.0  
2090 8.8 75056.0 -2204.4  
2091 9.8 75108.5 -2241.8  
2092 9.6 75109.4 -2237.4

2093 9.8 75112.8 -2224.8  
2094 9.8 75120.5 -2222.9  
2095 9.5 75129.7 -2220.6  
2096 9.0 75150.0 -2221.9  
2097 9.1 75155.3 -2234.8  
2098 9.8 75201.7 -2250.0  
2099 8.7 75201.9 -2237.1  
2100 9.3 75219.7 -2248.3  
2101 10. 75235.9 -2238.0  
2102 9.1 75240.3 -2234.1

2103 9.8 75248.8 -2246.0  
2104 6.2 75252.4 -2255.5  
2105 9.9 75258.3 -2232.8  
2106 9.6 75302.7 -2229.0  
2107 9.6 75309.7 -2229.0  
2108 9.2 75334.6 -2229.0  
2109 9.5 75340.1 -2237.9  
2110 7.8 75350.5 -2257.6  
2111 9.9 75356.5 -2246.0  
2112 10. 75404.8 -2238.1

2113 9.8 75420.8 -2256.7  
2114 9.1 75422.7 -2228.1  
2115 9.5 75423.5 -2243.8  
2116 9.9 75424.9 -2223.9  
2117 10. 75430.4 -2202.0  
2118 9.3 75445.2 -2201.8  
2119 9.5 75445.8 -2206.2  
2120 9.2 75450.3 -2204.8  
2121 9.0 75524.6 -2250.1  
2122 9.6 75529.1 -2230.4

2123 9.7 75534.1 -2231.0  
2124 9.5 75556.6 -2250.0  
2125 9.6 75609.6 -2207.5  
2126 9.5 75611.9 -2259.6  
2127 9.5 75630.5 -2209.0  
2128 9.1 75634.5 -2217.0  
2129 9.8 75637.7 -2231.5  
2130 10. 75647.9 -2222.4  
2131 9.8 75651.9 -2226.0  
2132 9.1 75702.7 -2254.8

2133 9.4 75717.6 -2220.1  
2134 9.5 75721.8 -2215.2  
2135 8.6 75733.8 -2217.2  
2136 9.8 75739.1 -2210.1  
2137 9.3 75758.0 -2207.7  
2138 9.1 75817.3 -2224.6  
2139 9.5 75825.0 -2204.1  
2140 9.8 75826.4 -2225.1  
2141 10. 75838.7 -2244.4  
2142 7.8 75843.8 -2201.8

-22 2232 8h14m

2143 9.2 75853.0 -2249.2  
2144 9.2 75855.2 -2217.9  
2145 9.5 75902.1 -2233.8  
2146 9.5 75903.9 -2255.0  
2147 10. 75936.6 -2211.6  
2148 9.0 75950.3 -2245.8  
2149 9.4 75951.3 -2227.5  
2150 9.3 75958.2 -2226.9  
2151 10. 80013.5 -2235.8  
2152 8.9 80019.6 -2235.9

2153 8.7 80020.1 -2222.1  
2154 10. 80034.5 -2210.8  
2155 9.3 80034.5 -2203.0  
2156 9.7 80039.8 -2225.2  
2157 10. 80044.6 -2216.2  
2158 9.5 80100.1 -2250.0  
2159 9.7 80100.2 -2216.2  
2160 8.6 80113.3 -2229.7  
2161 9.1 80139.9 -2214.7  
2162 9.0 80143.0 -2257.6

2163 9.5 80143.8 -2259.2  
2164 9.5 80235.4 -2255.8  
2165 9.3 80246.1 -2223.5  
2166 9.5 80247.0 -2229.2  
2167 9.1 80249.7 -2246.5  
2168 9.4 80252.4 -2210.4  
2169 9.5 80303.4 -2255.0  
2170 10. 80312.6 -2245.5  
2171 9.1 80326.7 -2209.7  
2172 8.5 80328.0 -2223.5

2173 7.3 80357.9 -2206.4  
2174 9.5 80404.0 -2237.9  
2175 9.2 80405.3 -2259.3  
2176 8.7 80406.1 -2227.1  
2177 9.1 80406.1 -2225.3  
2178 9.1 80427.9 -2257.9  
2179 8.7 80436.2 -2228.0  
2180 9.8 80454.1 -2224.0  
2181 10. 80504.5 -2259.3  
2182 9.1 80513.6 -2243.5

2183 9.5 80517.0 -2219.5  
2184 9.5 80531.2 -2246.5  
2185 9.7 80538.1 -2214.1  
2186 9.5 80613.4 -2205.4  
2187 9.5 80628.3 -2236.2  
2188 9.3 80630.9 -2234.9  
2189 9.2 80648.0 -2212.8  
2190 9.8 80649.1 -2247.2  
2191 9.4 80654.2 -2246.6  
2192 9.4 80654.9 -2216.1

2193 9.3 80656.8 -2218.2  
2194 9.9 80724.1 -2217.6  
2195 9.3 80740.0 -2224.8  
2196 9.4 80745.5 -2215.2  
2197 9.1 80801.4 -2242.5  
2198 9.4 80811.2 -2203.4  
2199 9.8 80828.7 -2219.9  
2200 9.6 80844.8 -2216.5  
2201 9.2 80852.9 -2206.7  
2202 9.4 80915.1 -2243.0

2203 9.8 80925.0 -2240.2  
2204 9.2 80935.8 -2241.6  
2205 10. 80938.6 -2237.1  
2206 9.7 80940.5 -2245.2  
2207 9.1 80948.8 -2201.1  
2208 9.8 80953.8 -2230.4  
2209 9.7 81031.1 -2217.2  
2210 10. 81032.6 -2220.2  
2211 9.7 81039.5 -2245.6  
2212 9.4 81042.2 -2248.9

2213 10. 81049.0 -2214.2  
2214 9.7 81050.2 -2212.1  
2215 9.3 81105.0 -2227.3  
2216 9.6 81108.9 -2214.7  
2217 9.1 81122.4 -2213.8  
2218 9.2 81128.8 -2214.5  
2219 9.5 81135.8 -2225.4  
2220 9.8 81138.3 -2209.1  
2221 8.2 81153.4 -2247.1  
2222 9.2 81214.0 -2222.7

2223 9.5 81216.1 -2219.6  
2224 9.5 81225.8 -2206.1  
2225 9.5 81236.4 -2244.2  
2226 9.5 81246.9 -2211.5  
2227 9.4 81253.3 -2234.9  
2228 9.1 81303.4 -2225.2  
2229 9.0 81314.0 -2255.4  
2230 9.5 81344.9 -2243.5  
2231 8.0 81354.0 -2253.8  
2232 9.0 81406.8 -2226.7



-22 2233 8h14m

2233 6.3 81408.9 -2227.7  
2234 9.6 81438.1 -2257.8  
2235 9.8 81441.4 -2228.5  
2236 9.8 81444.3 -2214.5  
2237 9.8 81445.9 -2230.5  
2238 9.5 81449.4 -2255.6  
2239 9.8 81513.6 -2257.6  
2240 9.3 81516.5 -2252.0  
2241 9.5 81531.0 -2232.5  
2242 9.8 81544.4 -2201.4  
  
2243 8.6 81551.6 -2257.4  
2244 9.5 81557.5 -2214.7  
2245 9.5 81609.1 -2238.4  
2246 9.9 81639.9 -2227.4  
2247 9.6 81645.9 -2217.4  
2248 10.1 81650.4 -2218.9  
2249 9.0 81654.2 -2200.6  
2250 10.1 81701.1 -2229.6  
2251 9.1 81702.2 -2232.5  
2252 9.8 81719.9 -2252.5  
  
2253 9.5 81740.0 -2258.8  
2254 9.3 81755.9 -2216.2  
2255 9.5 81803.7 -2257.5  
2256 9.0 81805.8 -2225.1  
2257 9.9 81809.1 -2217.3  
2258 9.8 81814.5 -2218.7  
2259 9.1 81815.5 -2214.6  
2260 9.6 81819.9 -2232.0  
2261 9.8 81836.0 -2257.5  
2262 6.2 81836.2 -2241.0  
  
2263 9.3 81837.0 -2225.0  
2264 9.8 81855.1 -2237.4  
2265 9.0 81933.6 -2214.5  
2266 9.3 81941.1 -2207.3  
2267 9.5 81941.2 -2218.8  
2268 8.8 81953.5 -2235.8  
2269 9.5 82002.1 -2213.0  
2270 10.1 82002.7 -2226.7  
2271 9.0 82014.8 -2237.2  
2272 9.1 82022.0 -2241.4  
  
2273 9.5 82024.0 -2223.7  
2274 9.8 82028.2 -2232.5  
2275 9.6 82033.4 -2225.0  
2276 7.7 82041.1 -2246.5  
2277 9.5 82043.5 -2233.0  
2278 7.0 82051.4 -2257.4  
2279 9.8 82137.1 -2213.9  
2280 9.3 82143.8 -2216.9  
2281 9.5 82146.5 -2219.0  
2282 9.5 82154.0 -2244.2  
  
2283 9.0 82154.9 -2229.8  
2284 10.1 82155.6 -2246.4  
2285 9.4 82157.0 -2252.0  
2286 7.0 82215.8 -2235.2  
2287 8.5 82218.6 -2211.4  
2288 9.4 82222.3 -2222.1  
2289 9.6 82222.7 -2202.5  
2290 9.8 82226.2 -2254.3  
2291 9.7 82235.2 -2203.2  
2292 9.5 82256.8 -2234.3  
  
2293 9.8 82259.0 -2249.8  
2294 9.5 82307.7 -2252.3  
2295 9.4 82307.8 -2231.7  
2296 9.5 82315.1 -2244.3  
2297 9.1 82320.8 -2234.9  
2298 9.6 82321.8 -2203.4  
2299 9.5 82333.5 -2209.1  
2300 9.2 82401.7 -2218.1  
2301 9.6 82433.1 -2201.7  
2302 9.5 82445.0 -2225.8  
  
2303 9.8 82451.9 -2259.1  
2304 9.8 82511.1 -2221.9  
2305 9.7 82515.9 -2239.2  
2306 9.7 82517.0 -2232.8  
2307 9.4 82524.2 -2240.4  
2308 9.6 82601.6 -2210.1  
2309 9.7 82607.2 -2207.8  
2310 10.1 82612.3 -2256.2  
2311 9.8 82614.1 -2254.2  
2312 8.4 82622.3 -2219.4  
  
2313 9.7 82623.4 -2227.0  
2314 9.0 82633.5 -2243.6  
2315 9.0 82633.5 -2223.2  
2316 9.2 82705.9 -2242.6  
2317 7.7 82729.4 -2252.6  
2318 9.1 82731.1 -2223.2  
2319 9.5 82731.5 -2237.8  
2320 9.8 82744.9 -2211.0  
2321 9.8 82746.5 -2202.1  
2322 9.8 82805.2 -2214.6

2323 9.8 82814.5 -2250.3  
2324 9.1 82824.7 -2254.6  
2325 9.1 82844.8 -2248.3  
2326 9.0 82900.3 -2257.6  
2327 10.1 82947.8 -2232.7  
2328 9.7 82955.1 -2208.6  
2329 9.0 83006.6 -2233.3  
2330 9.5 83025.1 -2255.9  
2331 9.8 83025.8 -2252.3  
2332 9.3 83051.2 -2239.6  
  
2333 8.2 83055.9 -2213.7  
2334 9.5 83117.5 -2211.4  
2335 9.8 83134.0 -2253.8  
2336 8.7 83135.1 -2234.1  
2337 8.7 83148.9 -2200.6  
2338 9.4 83152.2 -2201.0  
2339 9.7 83219.1 -2209.0  
2340 9.2 83224.8 -2251.9  
2341 9.7 83228.3 -2203.7  
2342 9.5 83238.9 -2220.8  
  
2343 9.1 83241.0 -2253.8  
2344 9.8 83242.9 -2237.0  
2345 5.3 83247.1 -2209.9  
2346 9.5 83250.9 -2236.8  
2347 9.5 83313.3 -2242.8  
2348 9.5 83328.8 -2258.4  
2349 9.3 83330.2 -2210.0  
2350 8.2 83342.1 -2241.9  
2351 9.1 83342.6 -2227.4  
2352 9.5 83359.0 -2255.4  
  
2353 9.2 83413.4 -2205.5  
2354 9.9 83420.5 -2234.3  
2355 9.8 83437.2 -2224.0  
2356 9.8 83438.8 -2214.2  
2357 9.4 83439.1 -2255.5  
2358 9.5 83455.6 -2206.3  
2359 9.5 83500.3 -2229.5  
2360 9.4 83505.6 -2219.8  
2361 9.1 83528.2 -2242.5  
2362 9.5 83537.9 -2219.1  
  
2363 9.2 83544.8 -2208.0  
2364 9.5 83547.0 -2215.7  
2365 9.2 83550.3 -2221.1  
2366 9.4 83557.6 -2219.8  
2367 9.5 83616.1 -2254.4  
2368 9.3 83627.9 -2215.6  
2369 9.5 83635.2 -2201.9  
2370 9.5 83714.6 -2230.9  
2371 9.2 83743.9 -2209.6  
2372 9.4 83756.7 -2226.6  
  
2373 9.4 83757.7 -2254.9  
2374 9.4 83804.1 -2258.6  
2375 9.4 83807.9 -2201.2  
2376 9.2 83810.2 -2233.2  
2377 9.6 83811.8 -2212.4  
2378 9.7 83812.7 -2257.9  
2379 9.4 83822.2 -2211.0  
2380 8.6 83839.3 -2250.2  
2381 9.4 83857.4 -2228.3  
2382 9.5 83907.0 -2221.3  
  
2383 9.1 83917.3 -2212.9  
2384 9.8 83924.9 -2214.8  
2385 9.6 83925.1 -2203.7  
2386 9.0 83925.9 -2212.9  
2387 8.8 83926.1 -2211.4  
2388 9.5 83927.4 -2209.7  
2389 9.0 83937.6 -2211.4  
2390 9.1 84001.2 -2214.5  
2391 9.2 84002.8 -2227.7  
2392 9.0 84006.3 -2227.2  
  
2393 9.9 84009.1 -2223.8  
2394 9.5 84014.5 -2215.1  
2395 8.2 84014.8 -2209.6  
2396 10.1 84023.7 -2231.9  
2397 9.6 84032.0 -2233.7  
2398 9.8 84047.8 -2209.8  
2399 9.4 84100.5 -2229.5  
2400 9.6 84103.5 -2218.8  
2401 9.5 84127.9 -2209.9  
2402 9.1 84132.2 -2253.0  
  
2403 8.5 84156.3 -2236.4  
2404 9.5 84157.0 -2231.0  
2405 9.5 84202.8 -2202.7  
2406 8.8 84224.1 -2258.6  
2407 8.2 84227.7 -2220.4  
2408 9.3 84246.4 -2214.1  
2409 8.9 84302.2 -2204.1  
2410 8.5 84312.1 -2213.1  
2411 9.5 84313.6 -2252.0  
2412 9.3 84322.9 -2211.9

2413 9.4 84337.8 -2200.4  
2414 9.8 84354.6 -2259.0  
2415 9.5 84412.3 -2214.4  
2416 9.4 84418.9 -2228.5  
2417 8.5 84420.2 -2241.2  
2418 9.5 84442.6 -2245.9  
2419 8.3 84443.7 -2229.9  
2420 9.0 84444.2 -2220.8  
2421 9.7 84452.7 -2246.1  
2422 9.6 84458.7 -2217.3  
  
2423 9.9 84509.9 -2232.3  
2424 9.7 84514.5 -2248.1  
2425 10.1 84539.9 -2231.2  
2426 9.9 84557.7 -2213.4  
2427 10.1 84618.3 -2241.5  
2428 9.2 84629.0 -2246.2  
2429 9.1 84634.1 -2259.1  
2430 9.5 84655.8 -2208.4  
2431 8.0 84658.4 -2226.7  
2432 9.1 84703.2 -2215.7  
  
2433 9.1 84704.5 -2223.3  
2434 8.2 84711.9 -2229.6  
2435 9.1 84723.6 -2257.2  
2436 9.5 84726.0 -2224.0  
2437 9.5 84731.5 -2212.3  
2438 9.5 84754.5 -2205.0  
2439 9.1 84759.8 -2224.0  
2440 7.2 84805.1 -2258.7  
2441 8.5 84917.4 -2250.0  
2442 9.2 84922.5 -2217.6  
  
2443 9.8 84940.6 -2202.5  
2444 9.4 84951.4 -2248.5  
2445 9.7 84955.5 -2214.3  
2446 9.2 85004.0 -2255.0  
2447 9.1 85008.0 -2256.1  
2448 9.3 85010.3 -2235.8  
2449 9.5 85018.9 -2239.0  
2450 9.6 85039.8 -2230.7  
2451 9.7 85058.3 -2205.7  
2452 9.4 85058.5 -2250.3  
  
2453 9.7 85148.5 -2257.5  
2454 9.5 85150.3 -2258.3  
2455 9.3 85200.6 -2202.7  
2456 9.3 85201.6 -2210.0  
2457 8.6 85207.4 -2216.6  
2458 8.5 85208.3 -2223.0  
2459 9.7 85215.1 -2208.8  
2460 9.4 85235.7 -2243.2  
2461 9.1 85240.3 -2227.9  
2462 9.2 85256.5 -2256.5  
  
2463 9.1 85300.6 -2208.6  
2464 7.5 85303.6 -2236.3  
2465 9.1 85307.8 -2258.0  
2466 10.1 85320.7 -2254.2  
2467 6.8 85326.5 -2207.7  
2468 9.5 85336.3 -2240.1  
2469 9.5 85402.5 -2200.7  
2470 9.5 85419.1 -2246.3  
2471 9.2 85423.6 -2220.4  
2472 9.5 85508.2 -2212.0  
  
2473 9.1 85510.2 -2236.9  
2474 9.5 85533.8 -2212.7  
2475 9.6 85548.0 -2251.8  
2476 9.5 85558.8 -2200.4  
2477 9.5 85604.8 -2221.0  
2478 8.6 85619.1 -2236.8  
2479 7.5 85659.7 -2225.7  
2480 9.0 85701.7 -2252.4  
2481 9.7 85708.0 -2248.7  
2482 8.9 85717.9 -2256.8  
  
2483 9.6 85723.5 -2252.3  
2484 9.7 85727.8 -2210.9  
2485 9.0 85729.1 -2247.7  
2486 9.7 85733.3 -2224.8  
2487 9.6 85751.8 -2212.0  
2488 9.5 85755.7 -2209.6  
2489 9.8 85758.3 -2209.1  
2490 9.6 85809.0 -2206.5  
2491 10.1 85836.6 -2209.9  
2492 8.0 85854.9 -2223.6  
  
2493 9.1 85900.4 -2256.4  
2494 9.4 85918.7 -2226.5  
2495 9.6 85933.9 -2252.8  
2496 9.5 85937.4 -2257.5  
2497 8.5 85956.9 -2220.5  
2498 8.3 90024.4 -2244.6  
2499 8.0 90117.9 -2248.6  
2500 9.8 90125.8 -2256.8  
2501 9.8 90134.2 -2227.8  
2502 8.3 90153.0 -2245.0

2503 8.0 90155.6 -2228.7  
2504 9.7 90201.4 -2207.8  
2505 9.1 90250.8 -2256.9  
2506 8.5 90258.9 -2255.7  
2507 7.2 90307.7 -2200.8  
2508 9.8 90316.5 -2223.3  
2509 9.8 90317.2 -2246.8  
2510 9.5 90337.6 -2237.1  
2511 9.4 90342.1 -2228.0  
2512 6.3 90353.6 -2235.3  
  
2513 8.7 90357.8 -2242.0  
2514 9.9 90405.2 -2245.5  
2515 8.0 90411.3 -2230.6  
2516 9.5 90416.2 -2245.1  
2517 9.2 90420.2 -2252.7  
2518 9.4 90457.9 -2238.0  
2519 9.8 90507.6 -2214.5  
2520 9.6 90510.9 -2216.1  
2521 9.0 90535.3 -2248.1  
2522 9.5 90539.0 -2235.2  
  
2523 9.5 90544.7 -2212.7  
2524 9.4 90545.3 -2210.7  
2525 9.1 90548.0 -2200.6  
2526 9.5 90617.2 -2251.4  
2527 9.4 90618.1 -2245.5  
2528 9.5 90654.5 -2228.0  
2529 9.8 90654.9 -2250.9  
2530 7.0 90715.8 -2216.1  
2531 8.8 90717.2 -2257.6  
2532 9.9 90718.3 -2241.8  
  
2533 9.0 90726.4 -2254.0  
2534 9.0 90729.8 -2205.5  
2535 9.8 90741.4 -2221.6  
2536 9.2 90746.7 -2219.0  
2537 9.2 90747.8 -2234.2  
2538 9.6 90753.7 -2206.4  
2539 9.8 90817.1 -2217.2  
2540 9.6 90818.0 -2221.1  
2541 9.8 90821.0 -2222.5  
2542 7.7 90825.9 -2211.9  
  
2543 9.3 90846.9 -2225.3  
2544 7.0 90907.5 -2253.6  
2545 9.4 90912.2 -2252.3  
2546 9.5 90912.3 -2209.0  
2547 9.1 90921.4 -2221.0  
2548 9.4 90926.7 -2252.9  
2549 9.5 90939.8 -2226.1  
2550 7.7 90946.9 -2231.7  
2551 9.5 91031.7 -2237.7  
2552 9.0 91032.1 -2219.3  
  
2553 9.5 91054.1 -2256.9  
2554 9.1 91105.2 -2222.7  
2555 9.5 91106.6 -2245.3  
2556 8.5 91113.7 -2219.1  
2557 8.1 91132.9 -2222.7  
2558 8.0 91136.8 -2203.6  
2559 9.3 91159.1 -2255.4  
2560 9.4 91200.5 -2212.6  
2561 9.0 91204.8 -2231.3  
2562 9.8 91218.0 -2212.9  
  
2563 9.7 91228.2 -2226.1  
2564 9.2 91228.7 -2220.5  
2565 9.8 91232.9 -2223.8  
2566 9.8 91235.5 -2227.1  
2567 9.4 91236.4 -2232.5  
2568 9.3 91236.4 -2245.9  
2569 7.9 91248.9 -2247.5  
2570 10.1 91303.6 -2206.2  
2571 9.5 91315.1 -2230.0  
2572 8.5 91326.7 -2221.1  
  
2573 9.4 91339.4 -2248.5  
2574 7.5 91344.3 -2251.7  
2575 8.3 91351.8 -2247.7  
2576 9.8 91353.4 -2214.1  
2577 9.8 91358.2 -2241.6  
2578 9.8 91401.2 -2237.8  
2579 9.9 91404.4 -2205.0  
2580 9.0 91405.0 -2203.3  
2581 9.5 91415.4 -2203.7  
2582 9.0 91502.1 -2253.3  
  
2583 9.7 91513.1 -2207.2  
2584 9.5 91512.4 -2231.9  
2585 9.5 91527.6 -2238.7  
2586 9.7 91535.3 -2250.8  
2587 8.7 91548.6 -2243.0  
2588 9.3 91555.4 -2205.9  
2589 8.5 91558.2 -2223.5  
2590 9.0 91600.9 -2209.0  
2591 8.9 91627.9 -2215.6  
2592 9.5 91638.7 -2232.0

-22 2592 9h16m



-22 2593 9h16m

-22 2952 10h28m

|      |     |         |         |      |     |         |         |      |     |          |         |      |     |          |         |
|------|-----|---------|---------|------|-----|---------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 2593 | 8.8 | 91640.0 | -2222.8 | 2683 | 9.5 | 93422.2 | -2238.8 | 2773 | 9.6 | 95034.0  | -2215.5 | 2863 | 9.8 | 100532.2 | -2234.5 |
| 2594 | 9.6 | 91645.6 | -2207.8 | 2684 | 5.0 | 93440.5 | -2256.0 | 2774 | 10. | 95050.8  | -2238.8 | 2864 | 9.8 | 100540.3 | -2230.9 |
| 2595 | 8.8 | 91650.3 | -2228.2 | 2685 | 9.7 | 93446.6 | -2246.8 | 2775 | 9.2 | 95054.2  | -2213.3 | 2865 | 9.1 | 100543.9 | -2253.9 |
| 2596 | 9.9 | 91656.0 | -2241.8 | 2686 | 9.0 | 93512.3 | -2234.8 | 2776 | 10. | 95057.4  | -2235.7 | 2866 | 9.5 | 100555.1 | -2231.6 |
| 2597 | 9.0 | 91750.6 | -2216.3 | 2687 | 9.6 | 93525.8 | -2216.3 | 2777 | 9.8 | 95100.3  | -2242.0 | 2867 | 8.7 | 100556.7 | -2234.3 |
| 2598 | 8.7 | 91752.2 | -2217.5 | 2688 | 10. | 93532.4 | -2206.2 | 2778 | 9.8 | 95119.5  | -2242.5 | 2868 | 9.2 | 100608.8 | -2228.5 |
| 2599 | 8.8 | 91757.9 | -2206.0 | 2689 | 9.1 | 93552.1 | -2245.8 | 2779 | 9.3 | 95133.6  | -2247.1 | 2869 | 7.5 | 100703.6 | -2221.7 |
| 2600 | 9.3 | 91808.2 | -2245.9 | 2690 | 9.2 | 93555.6 | -2213.5 | 2780 | 9.1 | 95143.7  | -2227.2 | 2870 | 9.3 | 100713.2 | -2220.6 |
| 2601 | 9.2 | 91820.3 | -2250.2 | 2691 | 9.1 | 93604.1 | -2238.7 | 2781 | 9.6 | 95145.1  | -2216.3 | 2871 | 10. | 100716.6 | -2256.1 |
| 2602 | 9.8 | 91826.0 | -2246.0 | 2692 | 9.4 | 93605.0 | -2227.4 | 2782 | 9.8 | 95153.9  | -2258.2 | 2872 | 9.3 | 100745.0 | -2232.1 |
| 2603 | 9.3 | 91826.7 | -2247.4 | 2693 | 7.8 | 93612.0 | -2218.1 | 2783 | 9.5 | 95201.7  | -2243.6 | 2873 | 9.0 | 100749.6 | -2224.5 |
| 2604 | 9.0 | 91837.4 | -2259.8 | 2694 | 8.9 | 93617.2 | -2238.5 | 2784 | 9.8 | 95209.2  | -2210.3 | 2874 | 8.8 | 100752.8 | -2206.7 |
| 2605 | 9.7 | 91856.7 | -2248.7 | 2695 | 9.1 | 93628.1 | -2237.4 | 2785 | 9.4 | 95211.6  | -2215.2 | 2875 | 9.7 | 100756.5 | -2201.2 |
| 2606 | 9.6 | 91905.5 | -2247.3 | 2696 | 9.8 | 93638.0 | -2216.9 | 2786 | 9.1 | 95232.3  | -2205.5 | 2876 | 9.8 | 100831.7 | -2252.9 |
| 2607 | 8.2 | 91911.8 | -2211.5 | 2697 | 9.8 | 93649.9 | -2218.1 | 2787 | 9.8 | 95239.3  | -2225.7 | 2877 | 9.1 | 100832.5 | -2211.9 |
| 2608 | 9.0 | 91936.5 | -2202.4 | 2698 | 8.4 | 93710.9 | -2206.7 | 2788 | 9.0 | 95246.4  | -2255.0 | 2878 | 9.5 | 100841.6 | -2252.7 |
| 2609 | 8.8 | 91944.7 | -2228.0 | 2699 | 9.8 | 93716.5 | -2209.8 | 2789 | 9.0 | 95246.2  | -2225.7 | 2879 | 9.8 | 100910.0 | -2200.1 |
| 2610 | 9.1 | 91946.5 | -2207.2 | 2700 | 9.5 | 93731.3 | -2222.0 | 2790 | 9.7 | 95257.2  | -2205.2 | 2880 | 9.7 | 100910.7 | -2202.1 |
| 2611 | 8.9 | 92009.4 | -2220.3 | 2701 | 9.6 | 93732.4 | -2234.1 | 2791 | 9.8 | 95304.3  | -2204.0 | 2881 | 9.0 | 100940.8 | -2237.4 |
| 2612 | 9.4 | 92042.1 | -2220.0 | 2702 | 9.5 | 93733.0 | -2248.5 | 2792 | 8.5 | 95304.3  | -2238.7 | 2882 | 9.5 | 100958.6 | -2213.0 |
| 2613 | 9.0 | 92048.4 | -2242.0 | 2703 | 9.4 | 93738.6 | -2253.7 | 2793 | 9.7 | 95306.8  | -2247.4 | 2883 | 9.5 | 101005.9 | -2234.3 |
| 2614 | 9.5 | 92102.4 | -2200.9 | 2704 | 9.0 | 93740.1 | -2232.8 | 2794 | 9.5 | 95309.5  | -2237.3 | 2884 | 9.6 | 101023.2 | -2212.8 |
| 2615 | 8.9 | 92110.8 | -2208.0 | 2705 | 6.8 | 93756.7 | -2205.0 | 2795 | 9.8 | 95320.0  | -2224.1 | 2885 | 9.4 | 101028.9 | -2229.4 |
| 2616 | 9.3 | 92113.0 | -2233.7 | 2706 | 7.7 | 93758.0 | -2241.6 | 2796 | 8.9 | 95325.0  | -2223.1 | 2886 | 9.1 | 101047.4 | -2259.1 |
| 2617 | 9.4 | 92145.1 | -2219.7 | 2707 | 7.8 | 93801.4 | -2255.0 | 2797 | 9.1 | 95325.4  | -2245.0 | 2887 | 9.4 | 101055.8 | -2238.8 |
| 2618 | 9.7 | 92203.8 | -2259.1 | 2708 | 8.0 | 93818.5 | -2249.1 | 2798 | 9.6 | 95368.7  | -2234.5 | 2888 | 9.4 | 101108.1 | -2249.8 |
| 2619 | 10. | 92210.9 | -2238.1 | 2709 | 9.8 | 93844.3 | -2207.1 | 2799 | 9.3 | 95368.7  | -2210.4 | 2889 | 8.3 | 101132.7 | -2201.7 |
| 2620 | 9.5 | 92226.9 | -2235.7 | 2710 | 9.7 | 93908.2 | -2219.6 | 2800 | 9.8 | 95414.8  | -2254.8 | 2890 | 9.4 | 101150.3 | -2228.4 |
| 2621 | 9.5 | 92235.5 | -2236.3 | 2711 | 9.5 | 93944.0 | -2236.3 | 2801 | 9.7 | 95419.9  | -2204.0 | 2891 | 7.5 | 101200.4 | -2227.1 |
| 2622 | 9.7 | 92308.4 | -2205.5 | 2712 | 9.2 | 93946.6 | -2201.6 | 2802 | 9.5 | 95421.6  | -2242.8 | 2892 | 8.5 | 101215.3 | -2226.2 |
| 2623 | 6.5 | 92315.4 | -2242.6 | 2713 | 9.1 | 93956.1 | -2225.5 | 2803 | 7.8 | 95427.3  | -2227.1 | 2893 | 9.5 | 101255.2 | -2213.0 |
| 2624 | 9.6 | 92404.4 | -2240.0 | 2714 | 9.6 | 94007.5 | -2237.9 | 2804 | 7.4 | 95430.8  | -2204.0 | 2894 | 7.4 | 101259.3 | -2214.1 |
| 2625 | 9.1 | 92409.2 | -2202.7 | 2715 | 9.1 | 94011.9 | -2221.6 | 2805 | 9.8 | 95445.9  | -2207.8 | 2895 | 9.1 | 101259.7 | -2200.2 |
| 2626 | 9.6 | 92409.9 | -2246.3 | 2716 | 9.5 | 94059.2 | -2206.5 | 2806 | 9.4 | 95458.1  | -2215.8 | 2896 | 7.5 | 101322.4 | -2222.2 |
| 2627 | 8.0 | 92414.3 | -2252.4 | 2717 | 9.4 | 94100.9 | -2226.6 | 2807 | 8.5 | 95500.4  | -2253.6 | 2897 | 9.0 | 101326.9 | -2225.8 |
| 2628 | 9.0 | 92438.3 | -2251.9 | 2718 | 9.5 | 94101.4 | -2240.5 | 2808 | 9.3 | 95528.8  | -2222.7 | 2898 | 9.5 | 101339.8 | -2233.2 |
| 2629 | 7.3 | 92454.2 | -2252.3 | 2719 | 9.5 | 94104.5 | -2230.0 | 2809 | 9.8 | 95607.0  | -2235.9 | 2899 | 7.5 | 101343.5 | -2254.7 |
| 2630 | 9.5 | 92503.5 | -2245.4 | 2720 | 8.8 | 94123.8 | -2251.2 | 2810 | 9.8 | 95652.9  | -2243.0 | 2900 | 9.8 | 101409.0 | -2211.7 |
| 2631 | 9.7 | 92515.8 | -2252.7 | 2721 | 9.5 | 94126.0 | -2234.4 | 2811 | 9.0 | 95706.7  | -2229.1 | 2901 | 9.1 | 101412.8 | -2205.8 |
| 2632 | 8.0 | 92520.1 | -2241.2 | 2722 | 9.0 | 94139.8 | -2203.7 | 2812 | 9.5 | 95712.3  | -2201.0 | 2902 | 9.4 | 101418.7 | -2228.6 |
| 2633 | 9.2 | 92521.0 | -2213.6 | 2723 | 9.1 | 94141.4 | -2208.8 | 2813 | 9.0 | 95730.1  | -2235.0 | 2903 | 9.7 | 101423.7 | -2215.9 |
| 2634 | 9.3 | 92523.3 | -2204.8 | 2724 | 9.0 | 94142.6 | -2209.8 | 2814 | 9.7 | 95730.2  | -2203.3 | 2904 | 6.5 | 101439.4 | -2258.9 |
| 2635 | 9.1 | 92532.1 | -2242.3 | 2725 | 8.1 | 94153.8 | -2200.2 | 2815 | 9.8 | 95747.1  | -2203.4 | 2905 | 9.2 | 101442.5 | -2210.2 |
| 2636 | 9.6 | 92537.9 | -2226.2 | 2726 | 9.5 | 94156.5 | -2222.8 | 2816 | 9.0 | 95751.4  | -2211.9 | 2906 | 9.6 | 101456.7 | -2259.4 |
| 2637 | 9.7 | 92548.3 | -2208.5 | 2727 | 9.0 | 94211.7 | -2258.5 | 2817 | 9.0 | 95807.3  | -2214.1 | 2907 | 9.7 | 101503.4 | -2250.1 |
| 2638 | 9.8 | 92550.3 | -2237.8 | 2728 | 9.0 | 94227.1 | -2242.6 | 2818 | 8.9 | 95817.6  | -2216.8 | 2908 | 9.2 | 101512.6 | -2236.7 |
| 2639 | 8.3 | 92558.9 | -2216.4 | 2729 | 9.6 | 94232.8 | -2219.8 | 2819 | 9.4 | 95819.7  | -2224.4 | 2909 | 9.2 | 101621.7 | -2206.1 |
| 2640 | 9.7 | 92606.0 | -2207.6 | 2730 | 9.0 | 94240.4 | -2242.6 | 2820 | 9.5 | 95827.5  | -2231.3 | 2910 | 7.8 | 101646.9 | -2244.0 |
| 2641 | 9.1 | 92621.0 | -2230.3 | 2731 | 8.9 | 94259.3 | -2258.7 | 2821 | 9.3 | 95833.1  | -2226.2 | 2911 | 9.5 | 101653.7 | -2251.9 |
| 2642 | 9.2 | 92631.3 | -2200.2 | 2732 | 9.7 | 94314.8 | -2203.4 | 2822 | 8.5 | 95835.1  | -2200.3 | 2912 | 9.5 | 101654.6 | -2224.8 |
| 2643 | 9.7 | 92636.0 | -2204.6 | 2733 | 9.8 | 94315.1 | -2209.3 | 2823 | 9.8 | 95839.5  | -2214.4 | 2913 | 9.3 | 101737.4 | -2205.5 |
| 2644 | 9.4 | 92641.2 | -2258.8 | 2734 | 9.4 | 94336.5 | -2257.8 | 2824 | 9.3 | 95901.8  | -2218.5 | 2914 | 8.8 | 101825.3 | -2248.2 |
| 2645 | 6.1 | 92650.8 | -2213.0 | 2735 | 9.9 | 94356.7 | -2204.8 | 2825 | 9.9 | 95906.3  | -2259.2 | 2915 | 9.5 | 101835.1 | -2225.9 |
| 2646 | 9.1 | 92653.7 | -2230.8 | 2736 | 9.4 | 94359.9 | -2242.0 | 2826 | 9.8 | 95908.1  | -2246.0 | 2916 | 9.8 | 101901.0 | -2224.8 |
| 2647 | 9.1 | 92657.5 | -2230.0 | 2737 | 9.8 | 94401.4 | -2255.8 | 2827 | 9.4 | 95912.0  | -2211.9 | 2917 | 9.8 | 101918.2 | -2219.4 |
| 2648 | 9.7 | 92733.2 | -2208.9 | 2738 | 9.7 | 94417.0 | -2200.4 | 2828 | 9.7 | 95914.7  | -2219.5 | 2918 | 9.6 | 101922.2 | -2213.3 |
| 2649 | 9.7 | 92735.0 | -2218.5 | 2739 | 6.6 | 94422.1 | -2220.4 | 2829 | 9.8 | 95933.2  | -2219.3 | 2919 | 9.0 | 101929.3 | -2240.5 |
| 2650 | 9.0 | 92805.9 | -2223.0 | 2740 | 9.2 | 94430.4 | -2238.7 | 2830 | 7.3 | 95954.6  | -2225.8 | 2920 | 9.5 | 102002.4 | -2236.9 |
| 2651 | 9.5 | 92822.3 | -2248.4 | 2741 | 8.8 | 94433.1 | -2216.8 | 2831 | 9.2 | 95957.9  | -2214.7 | 2921 | 9.5 | 102021.1 | -2207.0 |
| 2652 | 9.2 | 92827.4 | -2227.2 | 2742 | 9.0 | 94446.2 | -2243.3 | 2832 | 8.5 | 100012.1 | -2250.4 | 2922 | 9.5 | 102036.6 | -2218.7 |
| 2653 | 9.0 | 92830.4 | -2244.2 | 2743 | 9.4 | 94450.4 | -2227.8 | 2833 | 9.8 | 100029.3 | -2242.2 | 2923 | 8.6 | 102038.2 | -2227.5 |
| 2654 | 8.7 | 92833.4 | -2223.2 | 2744 | 9.8 | 94504.0 | -2252.3 | 2834 | 9.7 | 100033.6 | -2236.1 | 2924 | 9.5 | 102042.4 | -2218.9 |
| 2655 | 9.1 | 92841.1 | -2213.0 | 2745 | 9.5 | 94506.7 | -2231.8 | 2835 | 9.7 | 100043.5 | -2248.9 | 2925 | 8.7 | 102142.4 | -2204.5 |
| 2656 | 8.9 | 92841.6 | -2248.1 | 2746 | 9.1 | 94516.9 | -2200.1 | 2836 | 9.5 | 100101.5 | -2228.1 | 2926 | 9.0 | 102210.3 | -2235.5 |
| 2657 | 9.0 | 92841.8 | -2230.8 | 2747 | 9.5 | 94526.7 | -2247.1 | 2837 | 9.5 | 100111.1 | -2245.5 | 2927 | 9.1 | 102235.4 | -2256.8 |
| 2658 | 7.5 | 92847.9 | -2202.2 | 2748 | 9.2 | 94604.1 | -2235.5 | 2838 | 10. | 100123.4 | -2243.0 | 2928 | 9.8 | 102334.9 | -2221.3 |
| 2659 | 8.7 | 92849.8 | -2232.6 | 2749 | 9.7 | 94625.3 | -2208.5 | 2839 | 9.8 | 100138.3 | -2232.1 | 2929 | 10. | 102338.6 | -2212.9 |
| 2660 | 9.8 | 92915.5 | -2205.6 | 2750 | 7.8 | 94634.1 | -2259.5 | 2840 | 9.7 | 100.41.1 | -2237.1 | 2930 | 8.8 | 102355.3 | -2258.9 |
| 2661 | 9.5 | 92930.3 | -2226.1 | 2751 | 8.8 | 94641.5 | -2205.2 | 2841 | 9.5 | 100146.2 | -2256.7 | 2931 | 9.5 | 102428.8 | -2226.7 |
| 2662 | 9.5 | 92946.3 | -2236.5 | 2752 | 9.1 | 94644.9 | -2240.2 | 2842 | 9.9 | 100157.8 | -2212.5 | 2932 | 9.0 | 102442.3 | -2256.3 |
| 2663 | 9.1 | 92948.5 | -2201.6 | 2753 | 8.5 | 94652.1 | -2215.7 | 2843 | 9.7 | 100217.2 | -2208.7 | 2933 | 9.3 | 102449.7 | -2258.8 |
| 2664 | 9.3 | 93003.5 | -2218.3 | 2754 | 9.1 | 94656.9 | -2209.1 | 2844 | 8.0 | 100222.6 | -2251.1 | 2934 | 9.8 | 102450.7 | -2223.9 |
| 2665 | 9.5 | 93008.7 | -2208.5 | 2755 | 9.5 | 94724.3 | -2237.3 | 2845 | 8.8 | 100223.2 | -2244.6 | 2935 | 9.5 | 102452.1 | -2227.2 |
| 2666 | 9.7 | 93049.3 | -2233.8 | 2756 | 8.5 | 94744.4 | -2237.8 | 2846 | 10. | 100303.3 | -2221.1 | 2936 | 9.1 | 102456.1 | -2203.1 |
| 2667 | 9.5 | 93054.5 | -2208.4 | 27   |     |         |         |      |     |          |         |      |     |          |         |



-22 2953 10h28m

|      |     |          |         |      |     |          |         |      |     |          |         |      |     |          |         |
|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|------|-----|----------|---------|
| 2953 | 9.0 | 102808.8 | -2244.5 | 3043 | 9.7 | 104923.2 | -2249.3 | 3133 | 9.5 | 111700.2 | -2218.9 | 3223 | 8.3 | 114237.0 | -2214.1 |
| 2954 | 9.0 | 102817.5 | -2231.4 | 3044 | 9.8 | 104931.1 | -2227.4 | 3134 | 10. | 111701.4 | -2215.5 | 3224 | 9.5 | 114241.8 | -2245.9 |
| 2955 | 9.8 | 102819.3 | -2212.4 | 3045 | 9.8 | 104931.6 | -2246.3 | 3135 | 9.1 | 111709.9 | -2201.8 | 3225 | 9.1 | 114310.7 | -2221.0 |
| 2956 | 9.7 | 102844.2 | -2242.1 | 3046 | 8.9 | 104952.6 | -2237.6 | 3136 | 7.7 | 111735.5 | -2202.0 | 3226 | 8.2 | 114317.2 | -2240.5 |
| 2957 | 9.4 | 102850.6 | -2253.8 | 3047 | 10. | 105142.4 | -2212.4 | 3137 | 9.5 | 111735.7 | -2234.3 | 3227 | 9.3 | 114323.6 | -2203.7 |
| 2958 | 10. | 102905.5 | -2225.8 | 3048 | 9.2 | 105145.8 | -2206.3 | 3138 | 9.6 | 111804.1 | -2250.8 | 3228 | 9.1 | 114328.9 | -2242.7 |
| 2959 | 9.2 | 102946.1 | -2201.1 | 3049 | 7.8 | 105203.5 | -2228.4 | 3139 | 9.7 | 111814.4 | -2200.8 | 3229 | 9.0 | 114329.9 | -2225.4 |
| 2960 | 9.8 | 103024.9 | -2236.5 | 3050 | 9.0 | 105214.0 | -2247.0 | 3140 | 9.5 | 111824.2 | -2223.3 | 3230 | 9.5 | 114330.2 | -2233.5 |
| 2961 | 9.5 | 103029.2 | -2249.0 | 3051 | 9.5 | 105240.6 | -2244.5 | 3141 | 8.9 | 111824.8 | -2247.5 | 3231 | 9.7 | 114358.7 | -2246.8 |
| 2962 | 9.5 | 103036.0 | -2232.0 | 3052 | 9.8 | 105242.9 | -2231.6 | 3142 | 9.4 | 111904.9 | -2256.5 | 3232 | 9.0 | 114415.4 | -2235.4 |
| 2963 | 7.8 | 103041.4 | -2237.8 | 3053 | 9.4 | 105315.8 | -2233.2 | 3143 | 9.8 | 111906.3 | -2245.3 | 3233 | 10. | 114450.6 | -2202.0 |
| 2964 | 9.8 | 103045.9 | -2214.7 | 3054 | 8.2 | 105324.2 | -2238.7 | 3144 | 9.7 | 111932.1 | -2238.5 | 3234 | 9.8 | 114556.6 | -2225.7 |
| 2965 | 9.2 | 103108.3 | -2231.3 | 3055 | 9.6 | 105327.0 | -2203.2 | 3145 | 9.6 | 112024.4 | -2255.0 | 3235 | 9.1 | 114638.1 | -2242.2 |
| 2966 | 9.7 | 103110.3 | -2235.8 | 3056 | 9.3 | 105328.3 | -2201.7 | 3146 | 10. | 112028.2 | -2211.8 | 3236 | 9.0 | 114647.8 | -2217.3 |
| 2967 | 9.7 | 103110.7 | -2242.9 | 3057 | 9.8 | 105350.7 | -2201.7 | 3147 | 10. | 112030.8 | -2203.5 | 3237 | 9.8 | 114721.5 | -2252.9 |
| 2968 | 9.8 | 103135.5 | -2222.4 | 3058 | 9.7 | 105356.9 | -2222.4 | 3148 | 8.6 | 112031.3 | -2243.7 | 3238 | 7.8 | 114727.0 | -2244.8 |
| 2969 | 9.9 | 103152.3 | -2223.0 | 3059 | 8.4 | 105422.1 | -2238.7 | 3149 | 9.6 | 112042.1 | -2238.2 | 3239 | 10. | 114731.6 | -2205.1 |
| 2970 | 9.5 | 103200.2 | -2239.8 | 3060 | 9.5 | 105425.3 | -2232.9 | 3150 | 8.8 | 112048.1 | -2228.9 | 3240 | 9.9 | 114750.0 | -2236.1 |
| 2971 | 9.7 | 103223.7 | -2220.4 | 3061 | 9.7 | 105459.5 | -2215.4 | 3151 | 9.2 | 112066.9 | -2213.8 | 3241 | 9.7 | 114752.5 | -2237.9 |
| 2972 | 9.8 | 103223.9 | -2213.4 | 3062 | 9.0 | 105511.7 | -2237.8 | 3152 | 9.0 | 112301.8 | -2241.2 | 3242 | 8.0 | 114810.0 | -2238.0 |
| 2973 | 8.9 | 103232.0 | -2201.0 | 3063 | 9.7 | 105519.8 | -2214.7 | 3153 | 9.5 | 112350.2 | -2258.7 | 3243 | 9.5 | 114829.4 | -2256.1 |
| 2974 | 9.0 | 103246.9 | -2255.5 | 3064 | 8.8 | 105526.5 | -2218.6 | 3154 | 9.5 | 112356.7 | -2248.4 | 3244 | 9.4 | 114853.4 | -2247.5 |
| 2975 | 9.2 | 103248.4 | -2241.0 | 3065 | 9.8 | 105536.4 | -2229.3 | 3155 | 9.3 | 112421.1 | -2200.2 | 3245 | 9.6 | 114856.3 | -2215.0 |
| 2976 | 9.1 | 103259.1 | -2241.8 | 3066 | 8.7 | 105538.3 | -2250.0 | 3156 | 9.6 | 112422.8 | -2212.1 | 3246 | 10. | 114941.2 | -2215.4 |
| 2977 | 8.0 | 103304.9 | -2252.1 | 3067 | 9.5 | 105542.4 | -2228.4 | 3157 | 9.8 | 112438.6 | -2224.2 | 3247 | 9.4 | 114954.8 | -2220.2 |
| 2978 | 10. | 103340.6 | -2211.0 | 3068 | 9.7 | 105552.2 | -2207.7 | 3158 | 10. | 112444.7 | -2250.4 | 3248 | 8.5 | 114956.6 | -2242.0 |
| 2979 | 9.4 | 103348.1 | -2218.0 | 3069 | 9.5 | 105622.2 | -2223.0 | 3159 | 8.8 | 112514.7 | -2235.2 | 3249 | 8.5 | 115008.8 | -2223.8 |
| 2980 | 8.7 | 103352.5 | -2202.7 | 3070 | 9.0 | 105633.8 | -2202.1 | 3160 | 10. | 112527.7 | -2205.7 | 3250 | 9.3 | 115022.8 | -2253.1 |
| 2981 | 9.5 | 103403.1 | -2216.0 | 3071 | 9.0 | 105653.1 | -2207.9 | 3161 | 9.9 | 112542.7 | -2205.7 | 3251 | 9.7 | 115039.3 | -2218.5 |
| 2982 | 9.5 | 103405.2 | -2231.1 | 3072 | 9.4 | 105722.0 | -2243.1 | 3162 | 7.5 | 112544.2 | -2238.3 | 3252 | 9.4 | 115050.2 | -2218.1 |
| 2983 | 9.5 | 103423.7 | -2251.4 | 3073 | 9.4 | 105726.9 | -2221.7 | 3163 | 9.7 | 112556.2 | -2201.2 | 3253 | 9.8 | 115056.3 | -2247.0 |
| 2984 | 9.4 | 103430.7 | -2209.3 | 3074 | 8.0 | 105733.2 | -2200.1 | 3164 | 8.3 | 112605.7 | -2220.4 | 3254 | 9.1 | 115107.3 | -2250.3 |
| 2985 | 9.0 | 103438.4 | -2239.1 | 3075 | 9.7 | 105740.4 | -2212.4 | 3165 | 9.5 | 112609.1 | -2240.6 | 3255 | 9.8 | 115121.7 | -2213.8 |
| 2986 | 9.5 | 103442.4 | -2247.2 | 3076 | 9.1 | 105835.8 | -2221.0 | 3166 | 9.1 | 112616.8 | -2223.3 | 3256 | 9.4 | 115137.1 | -2201.5 |
| 2987 | 8.6 | 103448.7 | -2209.6 | 3077 | 9.8 | 105841.3 | -2216.7 | 3167 | 9.4 | 112621.5 | -2201.9 | 3257 | 7.3 | 115138.2 | -2236.4 |
| 2988 | 7.0 | 103556.1 | -2247.4 | 3078 | 9.4 | 105859.4 | -2219.9 | 3168 | 9.8 | 112623.3 | -2225.3 | 3258 | 9.2 | 115215.0 | -2242.9 |
| 2989 | 9.5 | 103612.2 | -2231.3 | 3079 | 9.1 | 105902.7 | -2226.6 | 3169 | 8.2 | 112632.9 | -2238.7 | 3259 | 9.5 | 115248.0 | -2214.2 |
| 2990 | 9.2 | 103623.2 | -2204.2 | 3080 | 7.8 | 105946.4 | -2246.3 | 3170 | 9.7 | 112704.7 | -2206.4 | 3260 | 10. | 115338.6 | -2246.0 |
| 2991 | 9.7 | 103629.4 | -2201.6 | 3081 | 8.7 | 110021.9 | -2237.3 | 3171 | 9.1 | 112714.0 | -2254.2 | 3261 | 9.4 | 115340.1 | -2250.0 |
| 2992 | 8.5 | 103634.8 | -2222.4 | 3082 | 10. | 110045.4 | -2205.6 | 3172 | 9.0 | 112732.1 | -2248.1 | 3262 | 9.0 | 115343.6 | -2232.2 |
| 2993 | 9.1 | 103642.6 | -2235.3 | 3083 | 9.4 | 110055.5 | -2238.9 | 3173 | 8.7 | 112737.6 | -2245.9 | 3263 | 9.8 | 115348.7 | -2242.5 |
| 2994 | 8.5 | 103707.3 | -2212.3 | 3084 | 8.8 | 110058.1 | -2203.0 | 3174 | 9.8 | 112739.3 | -2220.4 | 3264 | 8.9 | 115356.0 | -2218.4 |
| 2995 | 9.8 | 103720.7 | -2224.5 | 3085 | 9.3 | 110122.9 | -2205.5 | 3175 | 8.8 | 112810.0 | -2243.2 | 3265 | 9.8 | 115416.4 | -2239.4 |
| 2996 | 9.4 | 103733.3 | -2208.8 | 3086 | 9.5 | 110150.8 | -2218.5 | 3176 | 9.2 | 112900.6 | -2203.2 | 3266 | 9.8 | 115426.8 | -2237.8 |
| 2997 | 9.0 | 103745.3 | -2211.7 | 3087 | 9.6 | 110158.0 | -2227.5 | 3177 | 9.0 | 112908.9 | -2250.3 | 3267 | 9.1 | 115451.0 | -2257.5 |
| 2998 | 9.8 | 103759.9 | -2249.5 | 3088 | 9.3 | 110211.9 | -2255.0 | 3178 | 9.4 | 112918.1 | -2216.2 | 3268 | 9.8 | 115458.2 | -2210.9 |
| 2999 | 9.2 | 103828.9 | -2202.9 | 3089 | 8.8 | 110231.1 | -2246.2 | 3179 | 6.7 | 112944.4 | -2208.6 | 3269 | 10. | 115499.2 | -2214.4 |
| 3000 | 9.8 | 103856.6 | -2257.8 | 3090 | 8.6 | 110258.7 | -2203.4 | 3180 | 9.6 | 112951.8 | -2212.6 | 3270 | 9.5 | 115510.1 | -2221.1 |
| 3001 | 7.3 | 103910.4 | -2240.2 | 3091 | 9.1 | 110259.9 | -2234.0 | 3181 | 8.2 | 113010.1 | -2225.1 | 3271 | 9.8 | 115636.3 | -2251.9 |
| 3002 | 10. | 103911.4 | -2256.4 | 3092 | 9.8 | 110316.7 | -2215.5 | 3182 | 9.0 | 113024.9 | -2252.1 | 3272 | 9.6 | 115637.3 | -2240.0 |
| 3003 | 9.1 | 103922.9 | -2207.5 | 3093 | 9.2 | 110324.6 | -2200.4 | 3183 | 9.8 | 113102.4 | -2233.8 | 3273 | 9.2 | 115652.8 | -2205.5 |
| 3004 | 9.9 | 103931.2 | -2205.6 | 3094 | 10. | 110346.7 | -2207.2 | 3184 | 9.5 | 113105.5 | -2228.9 | 3274 | 9.5 | 115659.9 | -2209.1 |
| 3005 | 9.4 | 103948.4 | -2212.4 | 3095 | 9.8 | 110432.5 | -2201.9 | 3185 | 9.2 | 113109.8 | -2252.6 | 3275 | 9.5 | 115703.9 | -2255.5 |
| 3006 | 9.2 | 104018.5 | -2212.0 | 3096 | 9.3 | 110437.6 | -2239.5 | 3186 | 9.8 | 113116.6 | -2205.0 | 3276 | 9.3 | 115709.8 | -2217.1 |
| 3007 | 9.8 | 104037.6 | -2244.9 | 3097 | 9.5 | 110438.4 | -2244.5 | 3187 | 9.6 | 113118.0 | -2224.0 | 3277 | 9.7 | 115727.4 | -2221.9 |
| 3008 | 9.8 | 104046.8 | -2206.8 | 3098 | 7.3 | 110435.6 | -2212.4 | 3188 | 10. | 113158.3 | -2245.4 | 3278 | 9.8 | 115737.0 | -2232.1 |
| 3009 | 9.1 | 104103.3 | -2242.7 | 3099 | 9.5 | 110437.8 | -2229.4 | 3189 | 9.3 | 113217.1 | -2211.6 | 3279 | 9.4 | 115739.5 | -2246.5 |
| 3010 | 9.6 | 104112.9 | -2200.5 | 3100 | 9.4 | 110705.0 | -2214.4 | 3190 | 9.8 | 113248.3 | -2241.4 | 3280 | 9.6 | 115741.4 | -2249.1 |
| 3011 | 8.8 | 104207.7 | -2211.5 | 3101 | 8.5 | 110739.2 | -2251.9 | 3191 | 9.8 | 113257.3 | -2211.2 | 3281 | 9.1 | 115801.8 | -2241.7 |
| 3012 | 9.2 | 104219.0 | -2208.2 | 3102 | 8.9 | 110742.5 | -2218.2 | 3192 | 9.5 | 113309.2 | -2242.8 | 3282 | 8.7 | 115823.8 | -2258.8 |
| 3013 | 8.5 | 104221.0 | -2219.8 | 3103 | 9.4 | 110817.9 | -2209.6 | 3193 | 9.1 | 113331.3 | -2214.9 | 3283 | 9.4 | 115838.7 | -2203.1 |
| 3014 | 9.8 | 104352.0 | -2200.8 | 3104 | 7.1 | 110834.5 | -2207.4 | 3194 | 9.0 | 113332.9 | -2216.8 | 3284 | 8.3 | 115842.9 | -2247.4 |
| 3015 | 9.5 | 104407.5 | -2202.4 | 3105 | 10. | 110849.9 | -2219.2 | 3195 | 8.5 | 113408.8 | -2237.1 | 3285 | 9.8 | 115847.9 | -2219.2 |
| 3016 | 8.6 | 104422.3 | -2255.7 | 3106 | 9.5 | 110914.4 | -2210.8 | 3196 | 9.6 | 113419.7 | -2247.9 | 3286 | 9.5 | 115912.8 | -2253.8 |
| 3017 | 9.5 | 104428.3 | -2227.6 | 3107 | 9.2 | 110954.0 | -2247.1 | 3197 | 9.5 | 113430.4 | -2217.8 | 3287 | 9.1 | 115919.4 | -2213.8 |
| 3018 | 9.5 | 104444.5 | -2250.9 | 3108 | 9.8 | 111006.5 | -2248.3 | 3198 | 9.2 | 113432.8 | -2226.6 | 3288 | 9.1 | 115925.3 | -2240.4 |
| 3019 | 9.3 | 104505.8 | -2230.5 | 3109 | 9.6 | 111059.2 | -2213.0 | 3199 | 9.4 | 113502.2 | -2235.6 | 3289 | 9.8 | 115929.0 | -2252.1 |
| 3020 | 9.8 | 104510.7 | -2202.0 | 3110 | 9.5 | 111101.9 | -2200.6 | 3200 | 9.8 | 113505.1 | -2247.0 | 3290 | 8.8 | 115929.7 | -2218.0 |
| 3021 | 9.0 | 104521.8 | -2226.5 | 3111 | 8.9 | 111145.2 | -2219.5 | 3201 | 9.8 | 113524.9 | -2247.7 | 3291 | 7.0 | 115937.2 | -2257.6 |
| 3022 | 9.5 | 104523.5 | -2205.6 | 3112 | 9.8 | 111204.6 | -2218.3 | 3202 | 9.8 | 113555.2 | -2234.2 | 3292 | 9.8 | 120104.8 | -2251.8 |
| 3023 | 9.0 | 104532.4 | -2224.7 | 3113 | 9.8 | 111216.5 | -2228.3 | 3203 | 9.5 | 113617.4 | -2206.8 | 3293 | 9.0 | 120122.6 | -2250.4 |
| 3024 | 9.4 | 104606.2 | -2224.4 | 3114 | 9.7 | 111259.4 | -2210.1 | 3204 | 8.9 | 113653.2 | -2213.0 | 3294 | 9.1 | 120135.5 | -2204.2 |
| 3025 | 9.2 | 104612.9 | -2249.3 | 3115 | 8.3 | 111308.8 | -2256.1 | 3205 | 9.2 | 113659.7 |         |      |     |          |         |



-22 3313 12h06m

3313 9.3 120612.9 -2236.0  
3314 9.8 120618.9 -2213.2  
3315 9.8 120621.4 -2244.5  
3316 9.8 120627.3 -2209.2  
3317 9.5 120736.5 -2203.7  
3318 9.3 120749.3 -2219.7  
3319 9.0 120757.7 -2258.6  
3320 9.6 120806.8 -2214.9  
3321 9.3 120809.5 -2206.0  
3322 6.8 120816.8 -2232.6  
  
3323 9.8 120841.5 -2214.7  
3324 9.3 120842.0 -2201.7  
3325 9.6 120849.1 -2201.0  
3326 9.4 120934.2 -2240.7  
3327 9.8 120955.1 -2206.3  
3328 9.8 120956.7 -2257.7  
3329 9.8 121000.7 -2257.7  
3330 9.3 121001.4 -2241.8  
3331 9.7 121022.7 -2226.8  
3332 9.5 121023.5 -2229.9  
  
3333 9.1 121051.3 -2208.7  
3334 9.4 121102.6 -2255.4  
3335 9.8 121105.2 -2225.6  
3336 9.3 121107.8 -2212.3  
3337 9.0 121130.1 -2204.6  
3338 8.9 121135.5 -2254.9  
3339 9.3 121137.4 -2205.4  
3340 9.8 121140.6 -2234.8  
3341 9.4 121147.1 -2232.2  
3342 9.1 121156.6 -2219.3  
  
3343 9.8 121206.5 -2207.6  
3344 8.8 121211.1 -2237.5  
3345 9.8 121211.8 -2255.6  
3346 9.2 121234.4 -2222.5  
3347 9.5 121248.0 -2254.5  
3348 9.6 121255.8 -2251.8  
3349 10. 121316.6 -2251.6  
3350 9.4 121321.4 -2257.3  
3351 8.6 121339.8 -2252.1  
3352 9.3 121349.9 -2217.2  
  
3353 7.7 121409.3 -2205.3  
3354 9.8 121418.5 -2231.3  
3355 9.9 121419.4 -2246.7  
3356 9.8 121435.8 -2256.1  
3357 9.5 121444.9 -2219.9  
3358 10. 121446.6 -2211.8  
3359 10. 121456.9 -2210.3  
3360 9.7 121507.4 -2217.3  
3361 8.5 121510.4 -2227.1  
3362 9.4 121520.9 -2227.2  
  
3363 9.8 121556.8 -2221.2  
3364 9.9 121629.9 -2207.4  
3365 8.8 121642.7 -2202.3  
3366 9.8 121703.4 -2241.6  
3367 9.0 121707.8 -2252.6  
3368 9.4 121744.7 -2226.6  
3369 9.9 121747.2 -2205.6  
3370 9.8 121754.2 -2242.0  
3371 8.3 121805.9 -2201.0  
3372 9.8 121818.0 -2257.9  
  
3373 9.7 121925.7 -2236.3  
3374 9.7 121935.6 -2211.0  
3375 9.7 122020.3 -2223.5  
3376 9.1 122026.1 -2237.0  
3377 8.5 122031.4 -2225.5  
3378 9.1 122033.6 -2223.0  
3379 8.2 122106.1 -2207.1  
3380 9.8 122159.5 -2215.0  
3381 9.4 122200.5 -2223.5  
3382 9.9 122238.7 -2215.1  
  
3383 6.0 122243.0 -2253.9  
3384 9.6 122248.9 -2203.8  
3385 9.0 122251.9 -2244.9  
3386 9.1 122310.9 -2232.6  
3387 8.8 122331.4 -2229.8  
3388 9.6 122343.5 -2212.1  
3389 9.4 122431.3 -2217.0  
3390 9.7 122456.2 -2204.1  
3391 9.4 122528.3 -2245.7  
3392 9.7 122547.3 -2202.9  
  
3393 9.4 122551.3 -2247.5  
3394 8.9 122552.4 -2212.2  
3395 7.8 122611.7 -2243.0  
3396 9.0 122617.5 -2217.4  
3397 9.8 122620.8 -2233.6  
3398 9.0 122625.8 -2224.2  
3399 7.5 122628.7 -2244.8  
3400 9.1 122642.8 -2210.0  
3401 2. 122647.2 -2235.1  
3402 8.7 122712.2 -2240.3

3403 8.7 122727.7 -2221.3  
3404 9.5 122735.2 -2210.6  
3405 9.8 122746.6 -2230.4  
3406 8.7 122841.0 -2210.4  
3407 9.2 122858.1 -2242.5  
3408 9.4 122859.6 -2203.7  
3409 9.8 122922.1 -2239.0  
3410 8.9 122943.0 -2252.6  
3411 9.5 123028.6 -2202.9  
3412 9.8 123116.4 -2245.9  
  
3413 9.7 123132.2 -2208.9  
3414 9.9 123132.7 -2219.5  
3415 9.8 123134.5 -2233.8  
3416 9.8 123204.0 -2249.9  
3417 9.9 123207.9 -2234.5  
3418 9.2 123215.1 -2212.5  
3419 8.3 123216.9 -2245.6  
3420 8.9 123222.4 -2239.9  
3421 9.9 123254.8 -2234.9  
3422 10. 123332.3 -2229.5  
  
3423 9.0 123342.9 -2243.4  
3424 9.5 123348.4 -2209.1  
3425 9.8 123428.2 -2240.9  
3426 9.0 123432.3 -2204.6  
3427 9.5 123442.2 -2229.8  
3428 9.8 123502.3 -2203.1  
3429 9.8 123534.0 -2232.3  
3430 8.6 123542.2 -2240.5  
3431 9.3 123556.7 -2252.2  
3432 9.3 123600.2 -2248.4  
  
3433 9.4 123602.6 -2252.1  
3434 8.3 123604.5 -2203.7  
3435 9.8 123617.6 -2219.0  
3436 8.8 123621.9 -2216.1  
3437 9.6 123624.5 -2211.2  
3438 9.8 123634.7 -2226.4  
3439 9.8 123644.7 -2239.4  
3440 9.9 123647.2 -2246.8  
3441 9.8 123651.1 -2253.7  
3442 8.5 123659.6 -2227.5  
  
3443 9.8 123709.4 -2231.0  
3444 10. 123823.1 -2220.8  
3445 10. 123825.7 -2215.9  
3446 9.6 123950.5 -2207.4  
3447 9.5 124022.2 -2232.3  
3448 8.8 124056.6 -2246.1  
3449 9.4 124059.5 -2211.3  
3450 9.4 124110.1 -2212.7  
3451 9.2 124119.1 -2247.9  
3452 7.5 124120.0 -2226.8  
  
3453 9.9 124246.5 -2257.1  
3454 9.4 124351.2 -2240.0  
3455 9.7 124406.3 -2242.0  
3456 9.1 124409.3 -2249.9  
3457 9.5 124413.7 -2232.2  
3458 9.7 124416.2 -2200.2  
3459 9.7 124429.0 -2204.4  
3460 9.4 124432.1 -2222.5  
3461 9.1 124435.9 -2212.2  
3462 7.0 124451.5 -2220.9  
  
3463 9.4 124458.8 -2222.3  
3464 10. 124519.5 -2214.3  
3465 8.7 124523.6 -2222.7  
3466 9.4 124536.5 -2209.3  
3467 9.0 124550.8 -2205.2  
3468 9.8 124556.0 -2258.9  
3469 10. 124557.7 -2256.3  
3470 8.0 124559.7 -2219.2  
3471 9.8 124602.2 -2205.4  
3472 9.4 124635.3 -2233.0  
  
3473 9.5 124712.3 -2227.8  
3474 9.0 124739.1 -2255.2  
3475 9.2 124752.3 -2209.6  
3476 9.2 124809.3 -2249.1  
3477 9.4 124809.4 -2209.9  
3478 9.4 124811.3 -2211.6  
3479 9.7 124835.6 -2232.3  
3480 9.4 124911.7 -2203.8  
3481 9.5 125016.2 -2253.5  
3482 7.2 125026.5 -2216.1  
  
3483 8.5 125050.2 -2231.2  
3484 9.1 125053.9 -2204.3  
3485 9.5 125124.7 -2256.4  
3486 9.8 125228.6 -2248.2  
3487 9.9 125304.3 -2213.6  
3488 9.9 125347.7 -2242.3  
3489 9.5 125453.7 -2208.1  
3490 9.0 125524.5 -2231.7  
3491 9.5 125555.1 -2248.7  
3492 9.0 125604.5 -2244.4

3493 9.5 125613.5 -2231.0  
3494 10. 125624.3 -2219.6  
3495 9.5 125626.0 -2237.5  
3496 8.3 125647.4 -2203.1  
3497 9.8 125651.0 -2229.2  
3498 9.5 125707.0 -2219.8  
3499 9.2 125708.4 -2202.2  
3500 9.3 125730.0 -2253.0  
3501 9.2 125753.3 -2207.7  
3502 9.7 125754.2 -2205.3  
  
3503 9.2 125817.0 -2253.4  
3504 9.5 125838.6 -2216.4  
3505 9.1 125842.9 -2246.7  
3506 10. 125912.5 -22 5.7  
3507 9.4 125924.6 -2206.5  
3508 8.0 130018.5 -2248.5  
3509 9.5 130022.4 -2255.9  
3510 9.5 130036.4 -2251.0  
3511 9.7 130039.1 -2234.9  
3512 8.8 130043.4 -2254.1  
  
3513 6.9 130052.0 -2219.9  
3514 9.5 130108.5 -2208.8  
3515 5.0 130114.1 -2220.3  
3516 8.2 130125.3 -2225.7  
3517 9.1 130128.9 -2240.7  
3518 8.2 130138.5 -2204.6  
3519 9.5 130204.8 -2214.3  
3520 9.0 130210.8 -2224.1  
3521 7.5 130219.9 -2238.2  
3522 7.5 130230.8 -2250.7  
  
3523 9.6 130234.4 -2212.3  
3524 9.9 130306.0 -2207.0  
3525 9.2 130325.8 -2249.0  
3526 9.9 130349.2 -2202.2  
3527 9.9 130426.8 -2242.9  
3528 9.0 130432.7 -2234.0  
3529 9.8 130447.3 -2235.3  
3530 9.4 130454.7 -2212.5  
3531 9.8 130456.1 -2214.0  
3532 9.8 130457.0 -2208.0  
  
3533 9.3 130504.4 -2207.4  
3534 8.3 130522.5 -2209.6  
3535 9.8 130525.7 -2225.2  
3536 9.8 130537.4 -2249.6  
3537 9.8 130609.8 -2245.3  
3538 9.2 130717.0 -2203.0  
3539 9.7 130733.6 -2228.9  
3540 9.5 130816.2 -2202.1  
3541 9.5 130820.1 -2203.2  
3542 8.5 130823.2 -2246.6  
  
3543 9.4 130830.3 -2204.2  
3544 9.8 130846.1 -2252.0  
3545 9.5 130853.6 -2242.5  
3546 9.8 130853.7 -2235.4  
3547 9.5 130923.6 -2259.8  
3548 8.6 130936.3 -2220.6  
3549 8.6 131009.6 -2244.2  
3550 9.8 131024.1 -2201.4  
3551 9.8 131035.4 -2208.1  
3552 9.8 131053.5 -2236.3  
  
3553 9.8 131056.0 -2239.0  
3554 3. 131101.5 -2224.0  
3555 9.8 131110.5 -2228.7  
3556 8.8 131113.1 -2246.4  
3557 9.4 131123.4 -2215.3  
3558 9.0 131130.5 -2254.2  
3559 9.8 131139.5 -2215.6  
3560 9.2 131155.0 -2235.7  
3561 9.4 131155.8 -2232.8  
3562 9.7 131217.7 -2215.2  
  
3563 9.8 131257.9 -2219.5  
3564 7.0 131331.1 -2201.7  
3565 9.8 131347.8 -2203.8  
3566 9.3 131348.2 -2252.5  
3567 9.1 131348.5 -2245.7  
3568 9.9 131402.9 -2230.2  
3569 9.8 131404.2 -2216.0  
3570 9.2 131414.4 -2205.3  
3571 9.8 131421.4 -2203.2  
3572 8.4 131440.3 -2211.3  
  
3573 8.9 131441.9 -2211.4  
3574 9.9 131456.4 -2206.0  
3575 8.9 131500.9 -2254.4  
3576 9.1 131519.7 -2206.8  
3577 9.7 131540.9 -2218.0  
3578 10. 131632.2 -2203.5  
3579 9.0 131635.1 -2249.4  
3580 9.7 131649.4 -2258.4  
3581 8.5 131659.3 -2235.6  
3582 9.5 131707.1 -2256.2

3583 9.0 131733.6 -2208.8  
3584 9.5 131746.9 -2209.6  
3585 9.5 131750.9 -2205.7  
3586 9.8 131806.4 -2200.9  
3587 9.6 131812.0 -2215.7  
3588 9.0 131814.8 -2220.6  
3589 8.1 131820.8 -2229.3  
3590 9.7 131824.4 -2235.9  
3591 9.5 131840.4 -2206.5  
3592 8.7 131841.0 -2228.4  
  
3593 9.7 131848.4 -2205.5  
3594 9.4 131909.3 -2257.0  
3595 9.4 132000.5 -2245.7  
3596 9.6 132053.5 -2234.0  
3597 9.8 132053.6 -2210.9  
3598 9.5 132055.5 -2245.4  
3599 9.5 132117.4 -2227.2  
3600 9.0 132118.7 -2225.0  
3601 30.0 132147.2 -2231.9  
3602 9.0 132226.9 -2222.9  
  
3603 9.0 132229.5 -2244.7  
3604 7.7 132232.9 -2253.8  
3605 8.3 132240.9 -2226.9  
3606 9.5 132241.4 -2231.5  
3607 9.1 132245.0 -2242.7  
3608 9.7 132305.4 -2209.8  
3609 9.7 132308.5 -2204.1  
3610 9.7 132319.0 -2216.4  
3611 9.4 132323.7 -2204.2  
3612 9.5 132341.4 -2239.5  
  
3613 9.4 132353.5 -2210.4  
3614 9.8 132357.9 -2251.1  
3615 8.7 132407.8 -2208.5  
3616 9.0 132409.3 -2212.9  
3617 9.1 132411.7 -2213.3  
3618 9.5 132505.3 -2237.1  
3619 9.3 132516.8 -2256.6  
3620 9.8 132525.0 -2225.8  
3621 9.8 132529.3 -2233.5  
3622 9.5 132546.0 -2211.3  
  
3623 9.1 132633.1 -2204.5  
3624 9.8 132713.7 -2232.4  
3625 9.8 132720.8 -2222.8  
3626 9.7 132742.3 -2220.3  
3627 9.0 132813.8 -2254.9  
3628 9.7 132827.6 -2215.6  
3629 8.9 132837.3 -2208.4  
3630 7.0 132911.5 -2252.3  
3631 9.2 132919.2 -2230.2  
3632 9.7 132934.2 -2209.7  
  
3633 9.8 132943.1 -2251.9  
3634 8.3 132948.6 -2201.6  
3635 8.2 132958.6 -2228.7  
3636 9.3 133000.3 -2219.6  
3637 9.0 133013.8 -2217.7  
3638 8.0 133015.9 -2257.1  
3639 8.9 133019.4 -2202.1  
3640 9.3 133102.2 -2204.3  
3641 9.4 133147.3 -2201.0  
3642 9.7 133158.2 -2208.9  
  
3643 9.0 133222.7 -2217.7  
3644 9.5 133316.5 -2245.0  
3645 6.7 133330.3 -2242.8  
3646 9.3 133336.0 -2252.2  
3647 8.7 133401.2 -2222.7  
3648 9.4 133444.0 -2235.2  
3649 9.2 133456.3 -2226.5  
3650 9.4 133459.5 -2225.4  
3651 9.3 133504.7 -2204.4  
3652 9.5 133609.7 -2200.9  
  
3653 9.8 133613.2 -2200.3  
3654 9.5 133620.5 -2255.5  
3655 9.3 133622.7 -2209.8  
3656 9.9 133628.5 -2233.4  
3657 9.2 133641.4 -2206.6  
3658 9.8 133755.0 -2211.4  
3659 9.8 133910.4 -2241.1  
3660 8.5 133910.4 -2245.1  
3661 8.3 133941.8 -2242.0  
3662 9.5 134014.3 -2238.0  
  
3663 9.2 134016.8 -2255.2  
3664 9.0 134122.7 -2244.7  
3665 9.7 134141.0 -2236.2  
3666 9.8 134141.3 -2248.9  
3667 9.3 134204.5 -2220.9  
3668 9.4 134216.7 -2219.6  
3669 9.6 134218.0 -2239.7  
3670 9.7 134241.8 -2207.4  
3671 9.5 134245.3 -2242.9  
3672 9.2 134346.2 -2224.2

-22 3672 13h43m



-22 3673 13h43m

3673 9.1 134357.7 -2254.4  
3674 8.8 134440.3 -2219.1  
3675 7.8 134501.7 -2247.7  
3676 7.7 134558.2 -2249.5  
3677 8.0 134706.2 -2257.3  
3678 9.7 134716.5 -2212.7  
3679 8.8 134729.0 -2202.7  
3680 9.1 134741.2 -2219.9  
3681 9.8 134741.3 -2211.9  
3682 9.0 134741.9 -2237.2  
  
3683 9.8 134802.7 -2217.4  
3684 9.8 134805.7 -2217.5  
3685 7.7 134855.6 -2223.1  
3686 9.3 134919.6 -2238.3  
3687 6.6 134923.1 -2218.2  
3688 9.6 134939.5 -2200.1  
3689 9.5 134958.0 -2224.9  
3690 9.3 135002.1 -2240.5  
3691 9.6 135006.5 -2231.1  
3692 9.5 135020.0 -2250.0

3693 9.6 135022.2 -2210.3  
3694 9.4 135025.7 -2231.5  
3695 9.4 135028.4 -2232.8  
3696 8.9 135032.7 -2209.3  
3697 8.9 135038.3 -2232.1  
3698 9.8 135039.2 -2210.3  
3699 9.7 135112.0 -2229.0  
3700 9.0 135119.5 -2210.2  
3701 9.6 135125.4 -2248.7  
3702 9.5 135127.0 -2248.9  
  
3703 8.2 135156.5 -2243.5  
3704 9.5 135226.5 -2243.3  
3705 9.4 135303.5 -2212.1  
3706 8.8 135310.6 -2238.7  
3707 9.8 135323.2 -2214.8  
3708 9.3 135346.4 -2259.2  
3709 8.3 135349.2 -2240.4  
3710 9.8 135356.9 -2254.3  
3711 9.5 135421.5 -2238.2  
3712 9.8 135503.9 -2237.5

3713 9.6 135510.7 -2220.4  
3714 9.4 135532.4 -2234.4  
3715 9.6 135644.3 -2237.3  
3716 8.7 135717.8 -2228.2  
3717 8.6 135729.9 -2226.4  
3718 10. 135738.2 -2201.4  
3719 8.8 135756.6 -2201.9  
3720 8.7 135821.8 -2259.9  
3721 9.2 135856.3 -2225.3  
3722 9.8 135902.7 -2226.4  
  
3723 9.0 135914.3 -2247.0  
3724 8.2 135940.8 -2236.3  
3725 9.3 135950.2 -2207.6  
3726 9.8 135955.9 -2218.8  
3727 9.0 140036.1 -2204.3  
3728 9.7 140049.7 -2236.7  
3729 9.0 140101.3 -2204.4  
3730 9.7 140114.7 -2243.8  
3731 9.6 140151.2 -2259.1  
3732 9.8 140158.7 -2201.8

3733 9.3 140210.2 -2240.5  
3734 9.7 140228.4 -2211.2  
3735 9.6 140230.3 -2254.2  
3736 8.5 140239.3 -2215.2  
3737 9.3 140234.1 -2228.1  
3738 9.8 140251.6 -2251.7  
3739 9.5 140305.7 -2241.7  
3740 8.2 140305.9 -2257.5  
3741 8.6 140308.4 -2207.8  
3742 9.5 140314.7 -2225.5  
  
3743 9.5 140345.7 -2214.0  
3744 9.6 140432.2 -2244.4  
3745 9.8 140528.6 -2226.5  
3746 9.0 140539.7 -2233.9  
3747 9.8 140604.6 -2202.6  
3748 8.2 140609.7 -2227.0  
3749 9.5 140623.6 -2258.0  
3750 9.7 140622.6 -2200.6  
3751 9.0 140642.1 -2243.3  
3752 9.1 140644.6 -2216.1

3753 9.1 140718.0 -2224.0  
3754 9.4 140721.8 -2214.0  
3755 9.7 140758.9 -2209.3  
3756 9.7 140817.6 -2249.4  
3757 9.8 140826.5 -2212.2  
3758 9.4 140851.5 -2256.1  
3759 9.2 140905.1 -2211.7  
3760 9.6 140922.8 -2204.3  
3761 9.1 140939.8 -2211.9  
3762 9.8 140952.5 -2254.1

3763 9.5 140959.4 -2214.3  
3764 9.4 141036.4 -2248.7  
3765 7.3 141055.2 -2216.7  
3766 9.7 141059.8 -2212.8  
3767 8.5 141109.4 -2242.3  
3768 9.5 141227.9 -2243.6  
3769 9.5 141249.2 -2234.6  
3770 9.7 141300.1 -2230.1  
3771 9.7 141313.8 -2240.1  
3772 9.5 141317.4 -2205.1

3773 8.6 141320.3 -2210.0  
3774 9.7 141326.7 -2203.3  
3775 9.0 141329.2 -2220.9  
3776 9.5 141331.4 -2214.5  
3777 9.8 141417.9 -2240.9  
3778 9.0 141419.2 -2216.1  
3779 9.0 141428.8 -2224.5  
3780 9.6 141445.8 -2233.0  
3781 9.8 141452.6 -2215.7  
3782 9.8 141509.3 -2241.2  
  
3783 9.8 141509.7 -2259.9  
3784 8.8 141540.8 -2203.4  
3785 9.5 141541.1 -2248.1  
3786 9.2 141542.4 -2241.0  
3787 9.5 141605.8 -2245.0  
3788 9.3 141646.7 -2248.7  
3789 9.8 141755.8 -2209.8  
3790 9.4 141805.2 -2244.5  
3791 9.5 141906.4 -2227.2  
3792 9.8 141933.0 -2241.3

3793 7.8 142009.7 -2221.5  
3794 8.1 142016.5 -2218.5  
3795 9.8 142033.0 -2221.8  
3796 9.8 142051.8 -2212.9  
3797 8.8 142115.0 -2246.9  
3798 9.9 142122.8 -2205.3  
3799 9.3 142150.5 -2254.5  
3800 9.1 142219.5 -2218.2  
3801 9.1 142255.0 -2252.8  
3802 8.8 142308.9 -2226.1  
  
3803 7.0 142352.3 -2247.8  
3804 9.3 142408.4 -2200.6  
3805 9.5 142415.4 -2238.5  
3806 9.3 142429.8 -2257.7  
3807 9.1 142442.6 -2221.7  
3808 9.2 142520.1 -2216.6  
3809 9.6 142536.2 -2202.6  
3810 9.0 142631.7 -2217.4  
3811 10. 142711.8 -2200.8  
3812 9.2 142725.6 -2226.5

3813 9.3 142736.1 -2234.1  
3814 9.8 142745.0 -2248.8  
3815 9.2 142811.7 -2205.6  
3816 9.5 142825.9 -2243.4  
3817 9.2 142831.5 -2232.0  
3818 9.0 142916.9 -2220.9  
3819 7.5 142942.4 -2231.5  
3820 9.8 143000.6 -2254.1  
3821 9.3 143008.2 -2214.4  
3822 8.0 143039.4 -2240.9  
  
3823 9.1 143054.8 -2224.1  
3824 9.8 143139.4 -2233.4  
3825 10. 143143.8 -2247.0  
3826 9.3 143245.3 -2241.2  
3827 9.5 143321.8 -2237.1  
3828 9.4 143334.2 -2200.4  
3829 7.2 143405.2 -2248.1  
3830 9.2 143410.8 -2209.0  
3831 9.4 143427.8 -2222.4  
3832 9.5 143431.0 -2239.6

3833 8.9 143506.2 -2223.8  
3834 9.8 143535.5 -2206.5  
3835 9.9 143545.9 -2213.9  
3836 9.0 143559.7 -2221.1  
3837 9.0 143601.7 -2222.6  
3838 9.5 143613.8 -2208.3  
3839 9.1 143613.9 -2242.3  
3840 9.0 143622.0 -2215.7  
3841 9.5 143721.1 -2251.3  
3842 9.5 143733.7 -2200.3  
  
3843 10. 143734.2 -2218.0  
3844 6.3 143747.7 -2232.0  
3845 9.7 143805.4 -2228.6  
3846 9.5 143835.1 -2223.0  
3847 9.5 143839.1 -2235.6  
3848 9.2 143914.5 -2216.9  
3849 9.7 144045.6 -2203.9  
3850 9.8 144135.8 -2211.8  
3851 9.4 144153.0 -2227.9  
3852 9.1 144212.0 -2239.1

3853 9.5 144230.9 -2248.5  
3854 9.3 144320.8 -2204.9  
3855 9.1 144349.9 -2224.6  
3856 9.5 144401.9 -2234.9  
3857 9.8 144448.1 -2210.8  
3858 8.3 144457.0 -2252.2  
3859 9.2 144501.4 -2229.8  
3860 9.3 144517.4 -2232.9  
3861 9.2 144558.8 -2207.4  
3862 9.8 144624.3 -2206.5

3863 9.3 144642.4 -2205.7  
3864 9.5 144703.6 -2232.6  
3865 9.5 144726.3 -2255.5  
3866 9.6 144727.5 -2207.1  
3867 9.5 144735.8 -2233.5  
3868 9.8 144808.7 -2222.1  
3869 9.4 144841.5 -2208.0  
3870 9.5 144847.7 -2253.6  
3871 9.9 144848.2 -2217.8  
3872 9.6 144849.7 -2223.9  
  
3873 9.6 144914.8 -2201.7  
3874 8.8 144930.6 -2255.6  
3875 9.5 144931.7 -2223.1  
3876 9.7 145017.2 -2208.5  
3877 9.7 145057.8 -2217.3  
3878 9.0 145104.9 -2242.0  
3879 8.0 145208.8 -2215.9  
3880 9.8 145223.5 -2210.5  
3881 9.5 145224.4 -2225.4  
3882 8.5 145238.1 -2236.7

3883 9.6 145355.0 -2242.5  
3884 9.3 145402.8 -2255.5  
3885 9.6 145411.3 -2211.5  
3886 8.5 145427.1 -2232.2  
3887 9.2 145433.7 -2207.2  
3888 9.0 145442.5 -2239.8  
3889 9.8 145459.5 -2213.5  
3890 9.8 145506.0 -2214.6  
3891 9.8 145511.0 -2253.5  
3892 9.1 145523.5 -2254.4  
  
3893 9.4 145600.4 -2200.2  
3894 9.4 145633.5 -2235.9  
3895 9.3 145638.9 -2237.2  
3896 9.5 145646.5 -2202.4  
3897 7.5 145653.4 -2226.8  
3898 9.1 145656.5 -2225.5  
3899 8.5 145724.7 -2223.8  
3900 9.2 145746.9 -2239.5  
3901 8.0 145747.4 -2245.1  
3902 9.2 145746.2 -2208.3

3903 9.5 145747.3 -2246.1  
3904 7.7 15027.8 -2230.1  
3905 9.0 15032.4 -2238.6  
3906 9.6 15031.9 -2205.1  
3907 9.8 15031.8 -2251.4  
3908 8.3 15036.5 -2209.9  
3909 9.4 15042.7 -2252.3  
3910 9.8 15045.3 -2215.6  
3911 9.1 150355.1 -2248.1  
3912 9.7 150422.8 -2202.6  
  
3913 9.2 150424.6 -2241.1  
3914 9.6 150431.5 -2210.5  
3915 9.5 150517.7 -2213.7  
3916 8.5 150519.7 -2259.5  
3917 9.2 150530.6 -2248.9  
3918 9.3 150539.4 -2206.5  
3919 9.8 150554.2 -2202.9  
3920 9.5 150601.5 -2259.8  
3921 10. 150628.6 -2236.4  
3922 9.5 150639.6 -2249.3

3923 8.8 150643.0 -2242.5  
3924 9.8 150724.3 -2241.5  
3925 9.3 150805.6 -2249.7  
3926 9.0 150849.3 -2240.8  
3927 9.5 150914.4 -2246.5  
3928 9.0 150934.9 -2256.6  
3929 9.8 150937.5 -2231.9  
3930 10. 151001.4 -2227.1  
3931 9.7 151023.2 -2213.0  
3932 8.9 151034.4 -2247.6  
  
3933 9.5 151104.9 -2257.4  
3934 9.1 151138.9 -2222.4  
3935 9.8 151201.9 -2234.0  
3936 9.5 151227.3 -2228.6  
3937 9.5 151227.6 -2209.8  
3938 8.5 151355.6 -2227.1  
3939 9.1 151359.8 -2202.7  
3940 9.3 151405.8 -2253.6  
3941 9.5 151411.2 -2224.2  
3942 9.3 151417.1 -2235.1

3943 8.5 151417.8 -2222.7  
3944 9.8 151422.0 -2217.7  
3945 9.2 151432.3 -2254.4  
3946 9.5 151450.2 -2254.6  
3947 9.6 151518.3 -2257.6  
3948 8.8 151543.9 -2212.4  
3949 8.5 151620.2 -2259.3  
3950 8.5 151624.9 -2250.3  
3951 9.0 151628.5 -2223.0  
3952 9.8 151634.6 -2210.3

3953 9.0 151654.7 -2248.4  
3954 9.4 151707.4 -2215.4  
3955 9.8 151740.3 -2231.4  
3956 9.5 151751.9 -2252.9  
3957 9.8 151817.1 -2244.2  
3958 9.8 151837.2 -2222.1  
3959 9.2 151841.2 -2222.8  
3960 9.5 151939.6 -2245.1  
3961 9.5 152000.8 -2254.8  
3962 9.8 152021.7 -2214.9  
  
3963 9.5 152025.1 -2227.7  
3964 9.6 152034.6 -2225.5  
3965 9.0 152048.1 -2211.7  
3966 9.7 152102.2 -2216.1  
3967 9.8 152215.6 -2230.0  
3968 8.9 152233.5 -2255.8  
3969 9.1 152322.0 -2220.8  
3970 9.8 152346.0 -2236.6  
3971 9.5 152352.2 -2258.7  
3972 9.3 152401.5 -2232.6

3973 9.5 152402.9 -2256.1  
3974 9.5 152424.0 -2231.6  
3975 8.0 152443.9 -2258.2  
3976 9.9 152528.1 -2225.8  
3977 9.0 152550.0 -2230.5  
3978 9.5 152602.9 -2253.3  
3979 9.1 152613.2 -2216.7  
3980 9.8 152659.0 -2238.2  
3981 9.9 152711.3 -2253.1  
3982 9.2 152714.4 -2230.7  
  
3983 9.7 152725.1 -2203.7  
3984 9.6 152740.4 -2209.3  
3985 9.5 152753.7 -2255.7  
3986 9.3 152813.3 -2227.5  
3987 9.4 152822.9 -2207.1  
3988 9.2 152841.8 -2225.5  
3989 6.0 152917.3 -2239.2  
3990 9.5 152923.9 -2209.4  
3991 9.7 152940.8 -2257.1  
3992 9.5 153009.7 -2240.6

3993 7.7 153013.3 -2233.7  
3994 9.4 153022.9 -2206.7  
3995 9.4 153023.2 -2243.1  
3996 7.0 153049.8 -2240.0  
3997 9.4 153059.6 -2245.5  
3998 9.5 153108.8 -2240.4  
3999 9.3 153113.3 -2225.0  
4000 9.7 153115.6 -2251.5  
4001 9.7 153115.9 -2206.8  
4002 8.5 153118.2 -2259.7  
  
4003 9.7 153200.1 -2208.6  
4004 9.6 153219.6 -2216.4  
4005 9.9 153234.0 -2212.5  
4006 9.6 153248.7 -2213.2  
4007 8.0 153320.7 -2248.3  
4008 10. 153321.6 -2220.7  
4009 8.3 153332.2 -2233.8  
4010 9.8 153439.7 -2207.6  
4011 10. 153450.5 -2224.1  
4012 8.6 153533.0 -2214.4

4013 8.9 153549.8 -2252.7  
4014 10. 153550.3 -2206.7  
4015 9.0 153620.6 -2237.3  
4016 9.5 153628.5 -2256.3  
4017 8.6 153639.6 -2226.1  
4018 9.4 153642.1 -2211.9  
4019 9.6 153708.3 -2219.5  
4020 6.7 153711.0 -2217.4  
4021 9.6 153725.5 -2207.7  
4022 10. 153823.4 -2254.1  
  
4023 9.1 153826.0 -2239.8  
4024 9.8 153913.3 -2222.1  
4025 9.4 153926.3 -2213.7  
4026 9.0 153934.9 -2254.6  
4027 9.2 153935.6 -2256.0  
4028 8.8 153943.4 -2200.7  
4029 9.4 154002.0 -2223.9  
4030 9.5 154030.0 -2235.6  
4031 9.5 154044.9 -2229.1  
4032 10. 154055.3 -2243.5

-22 4032 15h40m



-22 4033 15h41m

4033 8.8 154153.9 -2225.5  
4034 7.3 154205.7 -2248.6  
4035 9.8 154206.5 -2215.9  
4036 7.4 154234.0 -2210.9  
4037 10. 154239.4 -2247.1  
4038 9.8 154241.6 -2235.2  
4039 8.6 154252.9 -2209.0  
4040 9.5 154300.8 -2251.9  
4041 9.7 154312.8 -2201.8  
4042 9.4 154313.7 -2203.0

4043 9.1 154350.6 -2235.4  
4044 9.6 154422.2 -2214.0  
4045 9.5 154540.2 -2244.6  
4046 6.8 154608.1 -2219.8  
4047 9.5 154616.8 -2228.9  
4048 9.9 154627.1 -2235.4  
4049 9.5 154632.9 -2220.7  
4050 9.4 154636.8 -2203.8  
4051 9.2 154639.7 -2227.9  
4052 8.4 154642.4 -2256.1

4053 9.7 154645.0 -2240.7  
4054 9.5 154702.2 -2256.0  
4055 9.3 154746.2 -2233.5  
4056 9.8 154751.7 -2244.9  
4057 8.0 154813.1 -2245.6  
4058 8.5 154926.5 -2207.3  
4059 9.4 155002.1 -2232.0  
4060 10. 155031.0 -2250.0  
4061 9.4 155048.4 -2238.6  
4062 9.5 155048.6 -2222.7

4063 9.0 155109.8 -2216.0  
4064 9.8 155117.2 -2222.4  
4065 9.0 155119.1 -2209.0  
4066 8.5 155124.5 -2246.8  
4067 9.5 155130.0 -2255.4  
4068 2. 155145.9 -2211.9  
4069 9.0 155315.0 -2224.2  
4070 9.5 155319.8 -2236.3  
4071 7.7 155338.6 -2216.4  
4072 7.8 155408.9 -2246.7

4073 9.8 155413.5 -2244.4  
4074 9.7 155419.0 -2222.0  
4075 9.5 155421.9 -2245.4  
4076 9.5 155527.0 -2202.1  
4077 9.4 155533.2 -2238.9  
4078 10. 155638.8 -2249.4  
4079 10. 155653.8 -2254.9  
4080 9.8 155705.4 -2234.2  
4081 9.4 155714.3 -2258.6  
4082 9.1 155724.5 -2212.1

4083 9.7 155738.1 -2224.5  
4084 9.0 155803.8 -2230.1  
4085 9.8 155814.8 -2242.7  
4086 9.0 155822.6 -2234.6  
4087 9.9 155835.0 -2215.2  
4088 9.7 155847.2 -2204.7  
4089 9.5 155922.8 -2236.4  
4090 9.8 155950.1 -2217.4  
4091 9.7 155960.7 -2252.1  
4092 9.7 155946.1 -2214.3

4093 9.2 155953.5 -2201.0  
4094 9.5 155956.3 -2228.3  
4095 9.8 160000.0 -2258.3  
4096 9.4 160003.6 -2256.6  
4097 9.8 160004.0 -2253.8  
4098 9.5 160005.6 -2209.7  
4099 8.9 160005.7 -2227.4  
4100 9.5 160007.2 -2219.2  
4101 8.5 160047.3 -2234.3  
4102 8.5 160047.5 -2247.3

4103 9.4 160051.5 -2213.4  
4104 7.8 160122.9 -2201.5  
4105 9.3 160134.9 -2204.5  
4106 8.0 160148.0 -2242.8  
4107 9.4 160218.7 -2211.9  
4108 9.5 160225.4 -2241.5  
4109 10. 160233.0 -2220.0  
4110 9.1 160237.8 -2249.1  
4111 9.9 160241.4 -2218.0  
4112 10. 160310.7 -2244.6

4113 8.2 160317.1 -2210.0  
4114 9.1 160327.8 -2251.8  
4115 9.7 160346.3 -2215.5  
4116 9.0 160415.8 -2257.5  
4117 9.8 160416.1 -2243.6  
4118 9.5 160428.6 -2247.9  
4119 8.8 160436.1 -2206.8  
4120 8.8 160521.8 -2203.8  
4121 9.8 160530.6 -2221.0  
4122 9.0 160544.0 -2218.6

4123 9.5 160556.5 -2250.7  
4124 9.5 160603.0 -2214.2  
4125 9.5 160608.0 -2257.2  
4126 9.5 160613.0 -2217.8  
4127 7.3 160617.8 -2200.3  
4128 9.8 160631.8 -2210.5  
4129 8.7 160705.0 -2226.7  
4130 9.1 160720.3 -2247.5  
4131 9.1 160739.8 -2245.0  
4132 8.6 160740.2 -2247.6

4133 8.5 160814.3 -2244.8  
4134 9.8 160820.5 -2228.4  
4135 20.0 160823.9 -2236.5  
4136 8.0 160836.5 -2233.1  
4137 8.8 160847.2 -2258.8  
4138 9.3 160849.3 -2250.7  
4139 9.2 160853.0 -2242.5  
4140 30.0 160900.7 -2226.7  
4141 30.0 160901.9 -2232.0  
4142 9.8 160903.9 -2214.0

4143 9.0 160904.3 -2208.2  
4144 9.2 160910.4 -2232.0  
4145 9.2 160931.5 -2220.6  
4146 9.2 160937.3 -2247.0  
4147 9.2 160939.6 -2255.5  
4148 7.3 160948.7 -2254.7  
4149 8.9 161013.0 -2224.1  
4150 9.7 161016.4 -2230.8  
4151 9.2 161101.3 -2204.8  
4152 9.8 161127.5 -2227.4

4153 9.5 161131.3 -2210.1  
4154 9.5 161145.0 -2203.8  
4155 10. 161211.5 -2206.6  
4156 8.5 161212.5 -2214.2  
4157 9.8 161233.2 -2218.3  
4158 9.0 161341.3 -2217.5  
4159 7.3 161411.7 -2246.1  
4160 9.5 161503.8 -2258.8  
4161 9.0 161515.3 -2201.7  
4162 7.7 161546.4 -2218.7

4163 9.8 161551.9 -2200.5  
4164 10. 161559.7 -2224.9  
4165 9.3 161613.4 -2219.3  
4166 9.7 161723.3 -2210.9  
4167 10. 161848.8 -2218.0  
4168 9.1 161913.0 -2215.6  
4169 10. 162016.3 -2206.8  
4170 9.3 162103.7 -2231.4  
4171 9.0 162128.7 -2207.0  
4172 9.5 162221.8 -2233.5

4173 7.8 162257.7 -2229.1  
4174 8.5 162509.1 -2230.8  
4175 8.9 162602.1 -2218.3  
4176 9.8 162639.7 -2214.8  
4177 9.4 162821.9 -2241.8  
4178 9.5 162845.6 -2249.8  
4179 9.8 162911.0 -2252.7  
4180 8.9 162926.9 -2208.7  
4181 9.0 162930.7 -2257.7  
4182 6.8 162938.4 -2235.5

4183 9.2 163007.8 -2251.6  
4184 9.2 163105.3 -2200.8  
4185 9.5 163303.7 -2252.8  
4186 9.8 163312.9 -2253.3  
4187 9.5 163314.0 -2247.0  
4188 9.7 163327.1 -2206.6  
4189 9.5 163330.7 -2225.3  
4190 9.1 163334.4 -2225.4  
4191 9.4 163341.3 -2216.1  
4192 9.4 163352.7 -2250.0

4193 9.6 163414.1 -2256.9  
4194 9.2 163431.0 -2203.7  
4195 9.3 163448.6 -2259.3  
4196 6.8 163458.9 -2227.2  
4197 7.5 163505.9 -2251.6  
4198 9.5 163529.8 -2200.8  
4199 7.0 163538.0 -2214.6  
4200 9.0 163547.7 -2243.7  
4201 9.1 163600.9 -2249.0  
4202 9.5 163607.8 -2215.7

4203 9.0 163615.3 -2255.3  
4204 9.5 163621.0 -2209.0  
4205 6.5 163626.6 -2254.4  
4206 9.6 163630.2 -2215.0  
4207 9.0 163747.2 -2202.7  
4208 7.8 163747.8 -2221.6  
4209 9.5 163803.6 -2250.5  
4210 9.8 163828.7 -2220.5  
4211 9.5 163849.6 -2223.7  
4212 9.5 163852.4 -2226.5

4213 9.5 163857.7 -2210.1  
4214 9.6 163921.3 -2211.7  
4215 8.9 163928.2 -2215.4  
4216 9.5 163937.7 -2229.1  
4217 9.8 163955.0 -2209.8  
4218 9.1 164001.2 -2219.8  
4219 8.3 164030.2 -2227.0  
4220 9.8 164031.0 -2201.6  
4221 9.8 164041.4 -2218.8  
4222 9.4 164041.7 -2229.6

4223 9.8 164057.7 -2250.9  
4224 9.2 164106.9 -2258.4  
4225 9.8 164122.5 -2256.2  
4226 9.3 164141.8 -2222.7  
4227 9.3 164142.8 -2248.7  
4228 9.8 164153.3 -2204.5  
4229 9.5 164204.9 -2242.6  
4230 9.6 164311.6 -2209.1  
4231 9.4 164315.0 -2231.8  
4232 8.0 164319.7 -2239.6

4233 9.1 164321.6 -2203.9  
4234 8.9 164355.8 -2227.7  
4235 9.3 164445.2 -2255.2  
4236 9.7 164513.4 -2231.1  
4237 9.4 164514.3 -2204.5  
4238 9.7 164517.3 -2231.6  
4239 9.1 164602.6 -2236.3  
4240 9.8 164630.4 -2224.8  
4241 9.8 164636.2 -2226.9  
4242 9.6 164643.3 -2238.7

4243 9.3 164643.5 -2247.9  
4244 9.8 164735.0 -2216.1  
4245 9.3 164736.2 -2213.7  
4246 9.5 164737.9 -2227.1  
4247 9.5 164753.3 -2258.2  
4248 9.3 164759.2 -2226.4  
4249 5.5 164803.9 -2254.7  
4250 9.0 164817.7 -2220.8  
4251 9.1 164847.9 -2224.3  
4252 9.8 164905.9 -2202.5

4253 9.3 164915.6 -2202.8  
4254 9.0 164923.2 -2248.1  
4255 9.8 164949.5 -2240.5  
4256 9.5 165034.7 -2226.8  
4257 9.7 165041.4 -2210.3  
4258 9.8 165100.5 -2206.1  
4259 9.6 165105.4 -2251.2  
4260 9.5 165140.0 -2258.5  
4261 9.2 165154.8 -2255.2  
4262 9.4 165208.7 -2257.2

4263 9.3 165238.7 -2207.9  
4264 8.5 165241.5 -2235.8  
4265 9.9 165304.4 -2245.2  
4266 9.8 165310.1 -2215.7  
4267 9.7 165337.4 -2206.0  
4268 9.4 165359.1 -2226.0  
4269 7.5 165436.7 -2256.2  
4270 8.9 165457.8 -2227.6  
4271 9.8 165501.3 -2216.8  
4272 8.7 165511.9 -2240.2

4273 9.5 165605.6 -2244.9  
4274 9.2 165625.9 -2240.9  
4275 9.5 165627.5 -2230.2  
4276 9.4 165647.3 -2241.5  
4277 9.3 165715.2 -2253.3  
4278 9.3 165716.1 -2238.5  
4279 9.5 165821.6 -2246.0  
4280 9.5 165829.5 -2215.3  
4281 9.5 165833.8 -2230.8  
4282 8.8 165903.0 -2217.6

4283 9.6 165918.5 -2249.3  
4284 9.4 165945.4 -2204.5  
4285 9.8 165954.9 -2219.8  
4286 9.6 170023.5 -2217.1  
4287 9.4 170028.9 -2250.0  
4288 9.5 170037.6 -2257.9  
4289 9.3 170042.0 -2258.3  
4290 9.8 170101.2 -2217.8  
4291 9.8 170101.8 -2242.5  
4292 9.5 170115.8 -2256.5

4293 9.4 170120.8 -2256.6  
4294 9.5 170144.6 -2218.7  
4295 9.3 170147.7 -2230.1  
4296 8.8 170252.9 -2208.0  
4297 9.7 170319.4 -2207.6  
4298 9.2 170329.9 -2258.9  
4299 7.7 170338.6 -2244.4  
4300 9.5 170344.6 -2224.5  
4301 9.5 170410.9 -2242.5  
4302 9.5 170412.8 -2254.5

-22 4392 17h32m

4303 9.8 170434.0 -2250.4  
4304 9.6 170440.0 -2224.9  
4305 9.2 170508.6 -2220.0  
4306 10. 170513.1 -2202.3  
4307 8.8 170521.7 -2224.0  
4308 9.8 170608.5 -2255.1  
4309 9.4 170652.9 -2247.5  
4310 8.9 170737.3 -2200.2  
4311 8.8 170816.5 -2218.1  
4312 10. 170819.2 -2258.8

4313 9.4 170821.1 -2227.2  
4314 9.3 170902.6 -2226.8  
4315 9.8 170938.3 -2252.3  
4316 9.5 170941.0 -2248.6  
4317 10. 170954.7 -2229.9  
4318 8.8 171009.5 -2232.8  
4319 9.2 171032.8 -2205.2  
4320 8.9 171045.1 -2250.5  
4321 9.5 171050.6 -2225.0  
4322 10. 171104.4 -2248.2

4323 9.4 171112.5 -2233.2  
4324 9.6 171120.6 -2224.9  
4325 9.1 171200.9 -2204.9  
4326 9.4 171220.7 -2246.1  
4327 8.3 171246.4 -2246.4  
4328 9.3 171252.9 -2243.2  
4329 8.0 171304.5 -2236.0  
4330 9.5 171325.4 -2251.5  
4331 9.0 171353.1 -2232.7  
4332 9.4 171358.5 -2229.6

4333 8.7 171409.6 -2226.3  
4334 9.5 171411.1 -2212.4  
4335 9.0 171420.4 -2220.2  
4336 7.2 171426.6 -2252.1  
4337 9.4 171432.1 -2237.7  
4338 9.6 171432.9 -2219.6  
4339 9.5 171443.4 -2240.3  
4340 9.8 171458.8 -2257.0  
4341 8.3 171538.9 -2259.7  
4342 9.4 171548.5 -2208.4

4343 9.8 171554.0 -2230.1  
4344 9.5 171609.4 -2239.7  
4345 8.9 171629.8 -2244.3  
4346 9.5 171913.4 -2245.6  
4347 9.3 171946.5 -2225.0  
4348 9.5 171954.4 -2256.8  
4349 8.5 171955.9 -2227.5  
4350 9.5 172018.4 -2213.3  
4351 10. 172024.3 -2207.2  
4352 10. 172034.5 -2205.5

4353 9.1 172056.9 -2217.8  
4354 9.4 172100.4 -2250.4  
4355 8.7 172119.9 -2249.5  
4356 9.5 172135.8 -2205.9  
4357 9.5 172145.4 -2218.1  
4358 10. 172148.3 -2255.2  
4359 9.3 172219.3 -2217.2  
4360 8.8 172239.2 -2209.6  
4361 9.1 172259.8 -2258.5  
4362 9.0 172310.1 -2253.0

4363 9.5 172403.4 -2224.0  
4364 9.5 172406.5 -2221.7  
4365 9.0 172448.6 -2232.1  
4366 8.1 172451.6 -2203.6  
4367 9.2 172459.4 -2252.7  
4368 9.1 172507.6 -2258.0  
4369 7.5 172514.9 -2255.2  
4370 9.1 172528.3 -2206.8  
4371 9.5 172629.0 -2213.2  
4372 9.6 172633.6 -2204.0

4373 10. 172655.5 -2250.0  
4374 9.8 172710.4 -2251.1  
4375 8.7 172716.6 -2226.4  
4376 9.8 172738.4 -2240.6  
4377 9.5 172742.0 -2215.6  
4378 8.8 172744.3 -2220.5  
4379 9.2 172818.0 -2233.4  
4380 9.5 172819.3 -2242.8  
4381 9.8 172827.7 -2205.4  
4382 9.6 172858.6 -2233.7

4383 7.5 172918.1 -2229.3  
4384 9.3 172931.3 -2240.3  
4385 9.4 173002.6 -2226.0  
4386 9.5 173025.0 -2229.0  
4387 8.3 173108.8 -2258.4  
4388 9.6 173120.7 -2226.4  
4389 9.7 173134.5 -2212.2  
4390 10. 173153.4 -2210.8  
4391 9.2 173206.9 -2213.1  
4392 9.5 173242.1 -2232.4



-22 4393 17h32m

4393 9.5 173246.9 -2238.9  
4394 9.0 173300.8 -2253.7  
4395 8.7 173314.2 -2213.8  
4396 9.1 173329.6 -2203.9  
4397 8.6 173356.5 -2217.0  
4398 9.1 173440.0 -2226.1  
4399 8.7 173509.3 -2241.4  
4400 9.2 173511.9 -2201.4  
4401 9.5 173513.2 -2258.5  
4402 9.5 173519.4 -2219.9  
  
4403 9.2 173521.1 -2212.4  
4404 9.4 173536.6 -2252.4  
4405 7.3 173539.2 -2207.2  
4406 9.5 173548.4 -2253.0  
4407 8.8 173617.8 -2249.0  
4408 9.3 173637.6 -2203.1  
4409 9.5 173702.5 -2225.0  
4410 9.5 173714.7 -2227.4  
4411 8.7 173715.0 -2233.7  
4412 9.1 173726.9 -2237.9  
  
4413 9.5 173732.7 -2245.3  
4414 9.8 173757.8 -2244.6  
4415 9.0 173800.5 -2209.2  
4416 9.5 173829.9 -2241.7  
4417 9.5 173833.1 -2222.3  
4418 9.4 173833.5 -2206.9  
4419 8.8 173833.6 -2201.2  
4420 9.4 173834.0 -2209.8  
4421 10. 173835.0 -2243.1  
4422 9.9 173856.5 -2229.4  
  
4423 6.7 173900.6 -2224.7  
4424 8.8 173904.4 -2255.0  
4425 9.1 173905.9 -2207.4  
4426 9.2 173914.4 -2237.0  
4427 9.8 173931.8 -2204.9  
4428 9.8 173940.9 -2219.9  
4429 9.5 173945.3 -2234.3  
4430 9.5 173946.5 -2229.9  
4431 9.5 174055.9 -2207.7  
4432 9.5 174110.9 -2238.9  
  
4433 9.2 174132.3 -2255.4  
4434 9.2 174140.9 -2239.0  
4435 9.2 174204.5 -2236.9  
4436 7.0 174219.8 -2252.2  
4437 9.3 174245.6 -2235.8  
4438 9.5 174306.4 -2237.0  
4439 9.5 174325.1 -2224.0  
4440 9.7 174329.2 -2206.8  
4441 7.3 174332.4 -2237.7  
4442 9.4 174338.8 -2250.3  
  
4443 9.0 174348.0 -2237.5  
4444 9.4 174410.4 -2216.3  
4445 9.4 174413.6 -2212.7  
4446 8.3 174427.0 -2230.0  
4447 9.1 174430.4 -2218.2  
4448 10. 174440.0 -2211.3  
4449 9.5 174444.0 -2214.5  
4450 9.5 174523.4 -2244.5  
4451 9.5 174527.4 -2240.7  
4452 9.7 174539.3 -2237.1  
  
4453 9.5 174542.0 -2232.9  
4454 8.0 174612.7 -2256.5  
4455 10. 174620.4 -2218.4  
4456 9.1 174624.9 -2203.0  
4457 9.4 174648.7 -2208.4  
4458 9.5 174649.1 -2200.9  
4459 9.2 174654.3 -2223.9  
4460 7.8 174725.5 -2225.8  
4461 9.4 174732.6 -2200.6  
4462 9.1 174738.3 -2246.0  
  
4463 9.6 174832.6 -2221.0  
4464 9.5 174852.1 -2253.4  
4465 9.0 174859.1 -2212.7  
4466 9.5 174859.2 -2241.6  
4467 9.5 174904.5 -2203.6  
4468 9.0 174907.8 -2233.0  
4469 9.1 174908.8 -2257.6  
4470 9.4 174917.7 -2208.9  
4471 9.3 174944.4 -2246.5  
4472 9.5 175001.1 -2247.9  
  
4473 9.3 175098.5 -2230.3  
4474 6.8 175011.3 -2229.7  
4475 8.5 175012.0 -2221.9  
4476 9.7 175028.3 -2204.7  
4477 9.8 175037.4 -2207.2  
4478 7.3 175040.5 -2226.6  
4479 9.0 175050.5 -2258.9  
4480 9.0 175053.6 -2256.0  
4481 9.3 175102.2 -2237.1  
4482 8.9 175104.1 -2238.2

4483 10. 175104.6 -2221.5  
4484 7.5 175114.8 -2231.9  
4485 9.4 175115.0 -2217.0  
4486 9.7 175130.1 -2224.1  
4487 9.3 175132.9 -2223.0  
4488 9.7 175133.0 -2217.8  
4489 9.3 175137.0 -2257.0  
4490 9.5 175141.5 -2234.7  
4491 9.0 175208.3 -2214.4  
4492 10. 175216.5 -2223.6  
  
4493 8.7 175220.7 -2234.9  
4494 9.4 175222.4 -2214.2  
4495 9.8 175228.1 -2210.3  
4496 10. 175230.6 -2217.7  
4497 9.6 175246.8 -2218.5  
4498 10. 175247.2 -2213.5  
4499 10. 175252.2 -2238.8  
4500 8.0 175254.6 -2207.2  
4501 10. 175303.8 -2207.6  
4502 9.8 175305.5 -2227.1  
  
4503 6.0 175306.1 -2245.7  
4504 9.5 175314.2 -2238.3  
4505 9.8 175315.8 -2221.5  
4506 9.8 175316.4 -2236.1  
4507 10. 175317.7 -2214.0  
4508 9.5 175330.5 -2228.3  
4509 9.2 175333.3 -2219.4  
4510 8.0 175343.6 -2254.4  
4511 9.1 175347.6 -2245.9  
4512 9.8 175352.8 -2211.5  
  
4513 9.6 175358.4 -2204.8  
4514 9.8 175412.6 -2251.8  
4515 9.5 175414.3 -2229.2  
4516 7.3 175415.0 -2242.7  
4517 9.5 175426.8 -2240.4  
4518 9.2 175426.9 -2249.5  
4519 9.1 175428.9 -2201.7  
4520 8.3 175431.7 -2252.7  
4521 9.1 175438.9 -2218.2  
4522 8.3 175439.1 -2236.5  
  
4523 9.8 175440.0 -2212.9  
4524 9.5 175445.6 -2203.8  
4525 9.4 175447.8 -2211.6  
4526 9.8 175449.8 -2225.3  
4527 9.9 175449.9 -2210.0  
4528 9.3 175457.2 -2230.5  
4529 9.4 175457.5 -2228.0  
4530 9.0 175503.9 -2213.9  
4531 9.6 175505.3 -2249.5  
4532 10. 175506.8 -2228.2  
  
4533 7.4 175508.9 -2250.3  
4534 9.4 175511.1 -2230.9  
4535 8.6 175516.9 -2233.6  
4536 9.3 175520.9 -2227.3  
4537 9.4 175521.4 -2226.1  
4538 9.5 175525.6 -2229.1  
4539 9.0 175525.9 -2241.0  
4540 9.2 175526.1 -2226.9  
4541 7.7 175526.4 -2229.8  
4542 9.2 175530.0 -2203.4  
  
4543 9.1 175531.6 -2229.3  
4544 9.6 175535.0 -2229.1  
4545 9.4 175538.3 -2226.3  
4546 9.7 175543.6 -2213.2  
4547 9.4 175548.8 -2222.6  
4548 9.5 175559.7 -2227.1  
4549 9.8 175607.1 -2232.0  
4550 9.3 175626.8 -2224.3  
4551 9.8 175630.6 -2250.9  
4552 10. 175631.7 -2235.8  
  
4553 9.4 175633.7 -2206.6  
4554 9.5 175658.0 -2251.2  
4555 9.0 175705.9 -2212.6  
4556 9.5 175710.1 -2238.2  
4557 8.7 175721.7 -2207.0  
4558 9.2 175724.3 -2227.7  
4559 9.1 175736.1 -2243.6  
4560 9.8 175758.8 -2224.1  
4561 8.5 175759.2 -2228.4  
4562 8.4 175804.7 -2203.1  
  
4563 9.8 175809.9 -2204.7  
4564 9.7 175818.8 -2215.3  
4565 9.7 175819.0 -2223.9  
4566 9.5 175822.1 -2241.5  
4567 9.1 175847.0 -2206.4  
4568 9.8 175847.8 -2227.7  
4569 9.3 175854.0 -2254.4  
4570 9.0 175854.0 -2207.4  
4571 8.9 175854.9 -2205.0  
4572 9.7 175859.5 -2256.8

4573 8.7 175902.7 -2253.5  
4574 9.7 175903.4 -2252.6  
4575 9.7 175918.5 -2214.1  
4576 8.4 175924.4 -2216.8  
4577 9.4 175937.3 -2209.6  
4578 9.5 175943.6 -2255.5  
4579 9.2 175946.8 -2243.5  
4580 9.5 175955.1 -2216.8  
4581 8.5 180000.0 -2210.2  
4582 9.0 180012.0 -2211.3  
  
4583 9.0 180026.5 -2247.7  
4584 9.1 180026.6 -2211.7  
4585 8.6 180029.1 -2254.9  
4586 9.7 180041.3 -2233.3  
4587 9.7 180049.2 -2234.4  
4588 9.6 180053.5 -2221.3  
4589 9.7 180058.5 -2231.8  
4590 9.2 180104.7 -2204.1  
4591 9.2 180104.9 -2208.4  
4592 9.6 180105.8 -2243.7  
  
4593 9.5 180132.8 -2224.4  
4594 9.5 180140.6 -2206.7  
4595 9.8 180146.7 -2216.1  
4596 9.4 180155.1 -2213.6  
4597 8.0 180159.4 -2215.6  
4598 9.5 180200.3 -2212.6  
4599 9.2 180206.0 -2255.7  
4600 9.5 180209.1 -2209.0  
4601 9.5 180212.7 -2231.7  
4602 9.4 180217.6 -2220.2  
  
4603 9.7 180226.6 -2225.6  
4604 9.8 180233.7 -2205.2  
4605 9.1 180259.0 -2207.6  
4606 9.8 180301.8 -2225.7  
4607 9.4 180330.2 -2226.5  
4608 9.5 180345.2 -2216.7  
4609 9.8 180348.1 -2246.0  
4610 9.8 180354.3 -2221.1  
4611 9.4 180405.2 -2227.4  
4612 10. 180408.3 -2201.5  
  
4613 9.1 180410.2 -2229.2  
4614 9.8 180424.4 -2216.0  
4615 9.6 180427.6 -2204.7  
4616 8.8 180433.3 -2251.4  
4617 9.8 180435.2 -2206.3  
4618 9.0 180438.4 -2204.1  
4619 8.3 180439.9 -2244.9  
4620 9.6 180441.6 -2218.3  
4621 9.3 180443.6 -2215.7  
4622 9.3 180449.4 -2223.4  
  
4623 9.8 180509.0 -2230.6  
4624 9.4 180519.6 -2243.4  
4625 9.6 180524.9 -2213.2  
4626 9.5 180534.5 -2227.9  
4627 10. 180542.2 -2207.0  
4628 9.5 180547.1 -2246.3  
4629 9.5 180550.0 -2227.3  
4630 9.1 180601.0 -2203.8  
4631 8.6 180604.5 -2202.6  
4632 9.7 180608.7 -2237.6  
  
4633 9.3 180616.3 -2238.8  
4634 9.1 180620.3 -2238.2  
4635 9.0 180620.9 -2228.5  
4636 9.6 180622.6 -2225.1  
4637 9.4 180633.7 -2208.7  
4638 9.1 180636.6 -2246.8  
4639 10. 180708.8 -2214.1  
4640 9.6 180717.2 -2235.1  
4641 9.5 180720.9 -2218.0  
4642 9.5 180729.0 -2234.2  
  
4643 9.0 180736.2 -2204.4  
4644 9.4 180742.6 -2217.3  
4645 9.9 180749.7 -2202.6  
4646 9.5 180822.2 -2254.2  
4647 9.4 180822.9 -2257.1  
4648 8.5 180824.3 -2212.7  
4649 10. 180830.1 -2201.9  
4650 9.5 180851.6 -2227.4  
4651 9.7 180853.3 -2217.3  
4652 9.5 180906.7 -2211.3  
  
4653 8.3 180909.7 -2220.2  
4654 9.5 180910.3 -2200.5  
4655 9.2 180912.3 -2223.1  
4656 9.1 180931.3 -2203.1  
4657 9.7 180932.9 -2200.5  
4658 9.8 180940.9 -2258.4  
4659 9.4 180944.4 -2201.1  
4660 9.2 180946.7 -2204.2  
4661 9.0 180951.7 -2235.8  
4662 9.4 181014.5 -2259.5

4663 9.9 181031.8 -2215.1  
4664 8.5 181032.6 -2247.1  
4665 9.2 181042.8 -2224.5  
4666 9.1 181045.2 -2229.9  
4667 9.4 181050.7 -2200.0  
4668 9.0 181053.0 -2208.9  
4669 9.6 181053.2 -2203.7  
4670 9.0 181053.9 -2235.0  
4671 9.4 181104.8 -2225.5  
4672 9.4 181111.0 -2225.2  
  
4673 9.5 181111.6 -2217.4  
4674 9.8 181120.4 -2258.5  
4675 9.9 181125.2 -2235.0  
4676 9.3 181125.9 -2214.1  
4677 9.5 181133.7 -2233.5  
4678 9.2 181140.9 -2212.8  
4679 9.5 181146.7 -2232.4  
4680 9.5 181153.3 -2220.1  
4681 9.5 181155.2 -2236.9  
4682 9.6 181203.0 -2205.1  
  
4683 9.8 181215.5 -2224.0  
4684 9.7 181218.4 -2258.6  
4685 9.5 181219.1 -2219.8  
4686 9.5 181241.0 -2251.6  
4687 9.8 181248.3 -2223.0  
4688 9.7 181301.3 -2207.5  
4689 9.5 181302.4 -2234.1  
4690 9.5 181309.7 -2234.8  
4691 9.0 181310.7 -2208.7  
4692 8.4 181313.3 -2204.6  
  
4693 7.2 181316.2 -2219.3  
4694 7.8 181319.9 -2211.3  
4695 7.8 181325.6 -2217.9  
4696 9.2 181343.7 -2214.9  
4697 9.5 181348.3 -2257.7  
4698 9.7 181352.4 -2213.6  
4699 10. 181413.1 -2236.4  
4700 9.5 181416.9 -2221.0  
4701 9.5 181416.9 -2221.1  
4702 9.1 181417.4 -2240.5  
  
4703 9.7 181430.0 -2224.2  
4704 9.5 181431.6 -2240.7  
4705 9.8 181443.6 -2243.1  
4706 9.4 181501.4 -2213.4  
4707 10. 181502.3 -2246.4  
4708 9.2 181511.6 -2220.8  
4709 8.6 181511.8 -2206.7  
4710 9.6 181537.9 -2222.9  
4711 9.7 181601.9 -2201.4  
4712 9.9 181608.7 -2233.1  
  
4713 9.7 181610.2 -2204.5  
4714 9.5 181626.2 -2241.0  
4715 9.5 181628.4 -2235.0  
4716 9.6 181644.8 -2246.4  
4717 9.5 181647.3 -2200.2  
4718 9.3 181655.9 -2205.0  
4719 9.4 181728.7 -2244.2  
4720 9.8 181732.2 -2244.2  
4721 9.5 181732.8 -2218.3  
4722 9.2 181748.7 -2216.2  
  
4723 10. 181750.3 -2202.2  
4724 9.3 181759.1 -2258.9  
4725 9.7 181814.3 -2211.5  
4726 9.7 181817.1 -2256.5  
4727 9.5 181844.1 -2202.7  
4728 9.6 181845.6 -2211.6  
4729 9.4 181849.7 -2242.9  
4730 9.4 181850.8 -2228.1  
4731 9.8 181850.9 -2215.5  
4732 9.8 181911.2 -2229.9  
  
4733 9.0 181925.8 -2230.2  
4734 9.8 181935.3 -2242.0  
4735 9.5 181937.6 -2258.1  
4736 9.0 181940.2 -2254.5  
4737 9.5 181944.3 -2208.3  
4738 9.5 182006.4 -2222.3  
4739 9.6 182010.2 -2232.7  
4740 9.7 182040.1 -2207.2  
4741 9.6 182044.3 -2234.1  
4742 9.1 182048.7 -2215.8  
  
4743 9.5 182049.8 -2233.5  
4744 9.7 182056.3 -2246.3  
4745 9.6 182132.9 -2224.6  
4746 9.5 182137.8 -2241.9  
4747 9.5 182153.1 -2203.8  
4748 9.8 182205.4 -2255.2  
4749 9.8 182206.2 -2227.3  
4750 10. 182211.9 -2220.5  
4751 9.5 182226.4 -2236.1  
4752 9.5 182232.6 -2258.7

-22 4752 18h22m



-22 4753 18h22m

-22 5112 19h18m

4753 9.3 182246.7 -2259.1  
4754 9.1 182252.0 -2248.8  
4755 9.2 182253.7 -2213.8  
4756 9.3 182257.1 -2254.9  
4757 9.5 182257.2 -2210.2  
4758 9.0 182317.8 -2243.3  
4759 9.5 182322.5 -2248.4  
4760 8.7 182330.1 -2209.3  
4761 9.0 182343.0 -2229.9  
4762 9.5 182343.1 -2223.0  
  
4763 8.9 182345.4 -2223.6  
4764 9.0 182347.0 -2201.2  
4765 9.8 182347.8 -2212.2  
4766 9.7 182355.1 -2252.6  
4767 8.0 182401.0 -2213.9  
4768 9.5 182412.5 -2211.2  
4769 9.5 182421.5 -2206.0  
4770 9.3 182422.3 -2219.4  
4771 8.5 182425.7 -2254.9  
4772 8.3 182434.2 -2243.8  
  
4773 9.2 182443.2 -2227.5  
4774 9.5 182457.1 -2257.4  
4775 9.2 182459.3 -2244.4  
4776 9.6 182502.1 -2210.2  
4777 8.9 182503.4 -2222.0  
4778 8.7 182505.3 -2232.1  
4779 9.5 182517.9 -2232.4  
4780 9.5 182518.7 -2254.6  
4781 8.8 182537.6 -2218.6  
4782 9.8 182547.0 -2229.0  
  
4783 8.5 182555.2 -2238.8  
4784 9.4 182556.3 -2219.2  
4785 9.8 182610.1 -2226.1  
4786 9.7 182611.4 -2209.7  
4787 9.5 182624.6 -2256.7  
4788 8.4 182624.7 -2205.4  
4789 9.4 182631.1 -2221.5  
4790 8.0 182637.1 -2211.8  
4791 9.8 182641.8 -2225.7  
4792 9.0 182642.3 -2230.6  
  
4793 9.3 182643.0 -2242.5  
4794 10. 182652.8 -2216.5  
4795 9.8 182656.2 -2248.5  
4796 9.8 182701.3 -2206.0  
4797 9.1 182702.4 -2250.2  
4798 9.5 182717.0 -2201.5  
4799 9.8 182727.5 -2205.3  
4800 8.9 182730.9 -2258.7  
4801 9.4 182731.3 -2214.1  
4802 10. 182747.4 -2256.7  
  
4803 10. 182803.6 -2205.2  
4804 9.4 182842.5 -2209.0  
4805 9.3 182851.2 -2214.1  
4806 9.6 182858.0 -2251.0  
4807 9.6 182902.1 -2247.5  
4808 8.5 182907.9 -2233.6  
4809 9.5 182911.4 -2212.8  
4810 9.4 182930.3 -2240.3  
4811 9.1 182932.1 -2211.4  
4812 9.5 182953.3 -2249.9  
  
4813 10. 183015.9 -2220.8  
4814 9.0 183024.8 -2225.9  
4815 9.3 183031.3 -2245.7  
4816 9.5 183034.4 -2229.1  
4817 8.0 183047.2 -2205.4  
4818 9.7 183103.1 -2233.5  
4819 9.8 183105.1 -2202.8  
4820 8.7 183125.8 -2247.3  
4821 10. 183131.0 -2239.9  
4822 9.4 183154.6 -2225.0  
  
4823 9.5 183154.9 -2203.7  
4824 9.5 183156.3 -2216.4  
4825 9.5 183200.8 -2200.3  
4826 9.0 183212.9 -2225.7  
4827 9.7 183249.4 -2226.0  
4828 9.8 183255.4 -2219.4  
4829 10. 183259.7 -2205.3  
4830 9.3 183330.0 -2225.0  
4831 9.0 183340.5 -2207.7  
4832 9.1 183344.9 -2228.5  
  
4833 8.6 183354.8 -2217.9  
4834 9.3 183434.2 -2213.3  
4835 7.3 183434.9 -2232.6  
4836 9.6 183453.8 -2242.1  
4837 7.8 183457.9 -2248.3  
4838 9.0 183514.6 -2245.6  
4839 10. 183522.7 -2209.0  
4840 9.8 183536.5 -2213.9  
4841 9.8 183537.0 -2223.1  
4842 9.5 183552.8 -2257.4

4843 9.4 183605.7 -2254.5  
4844 9.8 183607.6 -2206.3  
4845 9.2 183629.2 -2215.3  
4846 9.5 183635.5 -2216.8  
4847 9.5 183647.8 -2255.3  
4848 9.3 183651.0 -2211.1  
4849 9.8 183653.4 -2229.8  
4850 9.5 183659.1 -2219.5  
4851 9.3 183717.2 -2216.0  
4852 9.5 183718.5 -2252.3  
  
4853 9.5 183723.4 -2208.1  
4854 6.2 183736.4 -2231.7  
4855 8.9 183747.5 -2205.0  
4856 9.5 183800.5 -2226.1  
4857 10. 183808.3 -2252.6  
4858 8.5 183811.4 -2244.0  
4859 9.5 183814.5 -2226.5  
4860 9.0 183827.2 -2255.4  
4861 9.7 183835.6 -2202.7  
4862 9.5 183856.0 -2202.3  
  
4863 8.8 183908.5 -2219.1  
4864 8.6 183930.9 -2234.2  
4865 9.0 183944.3 -2213.9  
4866 9.5 184014.4 -2249.8  
4867 9.5 184028.6 -2216.3  
4868 9.6 184036.0 -2204.7  
4869 9.8 184036.2 -2231.5  
4870 9.5 184047.0 -2223.9  
4871 9.6 184109.4 -2251.3  
4872 10. 184122.6 -2213.7  
  
4873 9.2 184124.0 -2200.8  
4874 9.5 184134.6 -2210.2  
4875 9.5 184137.4 -2202.3  
4876 9.5 184139.0 -2214.5  
4877 9.5 184139.6 -2210.1  
4878 8.9 184150.8 -2258.9  
4879 9.7 184153.5 -2225.7  
4880 8.5 184157.0 -2225.7  
4881 6.9 184206.6 -2219.3  
4882 9.2 184212.4 -2244.8  
  
4883 9.5 184214.9 -2247.2  
4884 9.5 184225.6 -2206.7  
4885 9.5 184236.7 -2217.7  
4886 8.3 184236.9 -2210.9  
4887 8.5 184240.5 -2229.6  
4888 10. 184250.9 -2226.6  
4889 9.3 184251.4 -2200.1  
4890 9.0 184259.7 -2201.6  
4891 9.6 184324.4 -2235.6  
4892 6.8 184325.5 -2204.8  
  
4893 9.4 184328.1 -2222.2  
4894 9.8 184339.6 -2234.3  
4895 9.7 184347.6 -2220.5  
4896 9.5 184349.5 -2244.4  
4897 8.0 184355.5 -2228.5  
4898 8.7 184401.5 -2233.7  
4899 9.7 184409.5 -2233.3  
4900 9.1 184412.5 -2234.8  
4901 9.4 184416.5 -2223.8  
4902 9.5 184452.5 -2230.3  
  
4903 9.5 184516.9 -2253.5  
4904 9.5 184517.7 -2233.9  
4905 9.3 184519.6 -2201.1  
4906 8.5 184524.4 -2244.6  
4907 6.0 184525.3 -2254.9  
4908 8.5 184530.6 -2251.5  
4909 10. 184530.8 -2251.2  
4910 9.5 184545.6 -2209.3  
4911 9.8 184549.1 -2253.7  
4912 9.3 184550.5 -2227.0  
  
4913 10. 184556.6 -2226.9  
4914 9.0 184611.5 -2207.6  
4915 6.2 184619.9 -2250.8  
4916 9.8 184639.5 -2242.3  
4917 9.2 184649.0 -2226.8  
4918 9.7 184659.7 -2215.7  
4919 9.3 184711.8 -2212.4  
4920 9.4 184743.1 -2211.1  
4921 9.5 184755.6 -2217.3  
4922 10. 184757.7 -2220.6  
  
4923 9.6 184810.6 -2217.0  
4924 9.5 184821.0 -2228.9  
4925 9.5 184840.4 -2203.8  
4926 9.8 184847.1 -2201.8  
4927 9.4 184857.5 -2228.7  
4928 7.0 184940.9 -2243.2  
4929 8.8 184944.8 -2209.7  
4930 9.0 184946.3 -2251.2  
4931 9.0 184959.0 -2259.8  
4932 9.2 184959.2 -2209.7

4933 9.2 185006.4 -2239.8  
4934 9.5 185011.5 -2226.3  
4935 9.3 185017.0 -2226.0  
4936 9.3 185019.1 -2217.8  
4937 9.1 185031.5 -2205.5  
4938 8.3 185054.2 -2200.9  
4939 9.8 185110.1 -2220.2  
4940 9.5 185116.0 -2234.3  
4941 10. 185132.0 -2203.6  
4942 9.8 185150.6 -2225.7  
  
4943 9.3 185227.3 -2202.7  
4944 8.9 185235.8 -2218.7  
4945 9.8 185247.1 -2214.6  
4946 6.5 185252.9 -2253.5  
4947 9.5 185259.6 -2223.8  
4948 9.5 185303.4 -2200.2  
4949 9.5 185304.6 -2231.5  
4950 8.5 185317.5 -2217.4  
4951 9.3 185333.1 -2240.0  
4952 9.5 185343.5 -2248.8  
  
4953 9.5 185353.6 -2250.0  
4954 9.9 185415.7 -2201.0  
4955 9.7 185418.9 -2236.0  
4956 9.7 185430.9 -2208.2  
4957 9.4 185449.6 -2246.1  
4958 8.5 185459.4 -2254.8  
4959 9.4 185513.0 -2204.2  
4960 9.5 185527.3 -2238.5  
4961 8.7 185527.8 -2245.4  
4962 9.5 185529.4 -2225.3  
  
4963 9.5 185529.5 -2259.8  
4964 9.5 185552.7 -2236.6  
4965 9.5 185611.6 -2233.3  
4966 9.5 185616.7 -2226.7  
4967 9.5 185632.1 -2231.0  
4968 9.2 185635.8 -2203.6  
4969 9.5 185654.1 -2234.6  
4970 9.5 185710.6 -2229.8  
4971 10. 185721.3 -2207.7  
4972 8.5 185737.0 -2249.1  
  
4973 9.5 185742.2 -2223.4  
4974 9.8 185746.4 -2259.7  
4975 9.1 185753.2 -2218.2  
4976 9.5 185800.6 -2246.4  
4977 7.3 185815.5 -2242.8  
4978 9.5 185820.3 -2234.6  
4979 10. 185822.8 -2208.4  
4980 9.1 185830.0 -2257.4  
4981 9.1 185832.1 -2239.1  
4982 9.1 185842.0 -2243.1  
  
4983 9.5 185851.1 -2228.1  
4984 9.6 185912.0 -2245.1  
4985 9.1 185916.1 -2255.4  
4986 8.7 185930.0 -2200.6  
4987 10. 185930.8 -2215.8  
4988 9.8 185940.9 -2253.2  
4989 10. 190005.6 -2241.1  
4990 9.3 190024.7 -2217.3  
4991 9.4 190044.6 -2249.1  
4992 8.6 190048.7 -2236.0  
  
4993 9.9 190059.8 -2220.1  
4994 9.6 190136.6 -2239.6  
4995 9.5 190140.2 -2225.0  
4996 9.6 190142.4 -2202.6  
4997 8.8 190149.7 -2244.3  
4998 8.8 190171.1 -2247.6  
4999 9.6 190225.2 -2242.9  
5000 7.2 190228.0 -2208.0  
5001 9.1 190242.2 -2250.4  
5002 9.5 190248.8 -2217.4  
  
5003 9.5 190249.5 -2214.0  
5004 9.8 190311.8 -2220.2  
5005 9.5 190311.8 -2210.1  
5006 9.5 190321.0 -2202.9  
5007 8.0 190321.3 -2209.6  
5008 9.5 190327.6 -2232.1  
5009 9.6 190348.7 -2247.8  
5010 10. 190354.8 -2206.2  
5011 8.6 190355.4 -2225.5  
5012 9.6 190414.5 -2214.1  
  
5013 10. 190438.1 -2206.4  
5014 8.2 190455.7 -2248.6  
5015 9.0 190456.1 -2237.4  
5016 9.8 190459.4 -2208.3  
5017 9.1 190503.9 -2210.3  
5018 9.1 190509.8 -2244.8  
5019 8.8 190510.9 -2210.9  
5020 9.7 190520.3 -2259.3  
5021 7.3 190527.0 -2217.8  
5022 9.3 190533.4 -2211.1

5023 9.3 190536.7 -2257.2  
5024 9.7 190551.8 -2212.4  
5025 8.8 190552.7 -2219.2  
5026 9.4 190554.8 -2244.8  
5027 9.2 190610.7 -2216.5  
5028 8.9 190616.3 -2240.8  
5029 9.1 190705.2 -2237.0  
5030 9.3 190706.8 -2240.9  
5031 10. 190708.1 -2210.0  
5032 9.1 190715.4 -2216.8  
  
5033 8.8 190715.8 -2205.0  
5034 9.6 190717.2 -2202.6  
5035 8.8 190756.5 -2202.7  
5036 9.4 190811.4 -2217.7  
5037 9.8 190813.8 -2259.2  
5038 8.8 190816.3 -2228.9  
5039 8.5 190820.4 -2211.9  
5040 8.3 190829.9 -2200.6  
5041 9.5 190854.8 -2223.2  
5042 9.5 190857.1 -2212.4  
  
5043 9.5 190859.2 -2251.4  
5044 9.5 190931.1 -2231.2  
5045 9.5 190931.4 -2203.0  
5046 9.5 190936.8 -2247.8  
5047 9.4 190953.8 -2246.9  
5048 9.4 191003.0 -2201.5  
5049 8.0 191013.9 -2221.4  
5050 9.2 191021.4 -2225.0  
5051 10. 191027.3 -2203.0  
5052 9.0 191039.5 -2212.3  
  
5053 9.1 191050.8 -2212.4  
5054 9.2 191100.7 -2254.8  
5055 9.7 191102.4 -2211.2  
5056 8.3 191102.4 -2227.3  
5057 10. 191108.6 -2210.5  
5058 9.6 191125.0 -2218.9  
5059 9.7 191130.8 -2223.8  
5060 8.7 191146.8 -2207.8  
5061 9.5 191147.4 -2244.5  
5062 9.5 191155.0 -2201.7  
  
5063 6.4 191156.7 -2240.0  
5064 9.5 191209.2 -2256.3  
5065 8.4 191216.1 -2204.0  
5066 9.2 191221.6 -2220.8  
5067 9.7 191223.3 -2223.6  
5068 9.5 191234.3 -2203.6  
5069 10. 191242.0 -2245.1  
5070 9.4 191243.2 -2253.2  
5071 9.4 191329.1 -2221.4  
5072 9.5 191332.1 -2249.1  
  
5073 8.7 191335.3 -2220.5  
5074 9.8 191336.4 -2212.1  
5075 9.4 191338.1 -2242.2  
5076 9.2 191343.4 -2251.3  
5077 9.6 191348.0 -2217.4  
5078 9.4 191401.2 -2208.8  
5079 9.5 191404.2 -2237.7  
5080 9.1 191408.2 -2240.2  
5081 9.8 191410.4 -2214.5  
5082 10. 191446.1 -2255.5  
  
5083 9.4 191447.5 -2225.9  
5084 9.6 191459.3 -2234.1  
5085 10. 191500.3 -2213.3  
5086 9.6 191501.9 -2201.6  
5087 9.5 191511.4 -2204.9  
5088 9.6 191516.0 -2209.3  
5089 8.8 191520.2 -2201.6  
5090 8.8 191535.9 -2251.2  
5091 8.7 191542.8 -2254.4  
5092 8.8 191553.7 -2258.8  
  
5093 9.0 191554.0 -2252.4  
5094 8.2 191556.4 -2251.2  
5095 9.0 191557.5 -2236.9  
5096 9.5 191620.7 -2209.9  
5097 9.3 191649.0 -2245.9  
5098 8.9 191654.5 -2247.5  
5099 9.0 191656.0 -2236.9  
5100 7.7 191702.1 -2243.6  
5101 9.0 191717.8 -2234.9  
5102 9.4 191718.4 -2219.2  
  
5103 8.7 191738.4 -2213.1  
5104 10. 191739.5 -2245.2  
5105 6.0 191740.5 -2203.1  
5106 9.3 191748.6 -2234.4  
5107 9.3 191803.2 -2244.8  
5108 9.7 191805.1 -2236.5  
5109 9.7 191817.3 -2240.9  
5110 9.8 191827.3 -2228.7  
5111 8.5 191840.7 -2254.5  
5112 9.5 191843.3 -2216.4



-22 5113 19h19m

5113 9.8 191900.4 -2218.9  
5114 9.5 191902.0 -2226.0  
5115 10. 191908.3 -2222.0  
5116 9.8 191910.4 -2219.8  
5117 9.4 191914.4 -2210.0  
5118 9.0 191928.1 -2226.5  
5119 8.8 191937.9 -2233.3  
5120 9.1 192002.4 -2257.4  
5121 9.5 192059.6 -2236.5  
5122 9.3 192110.2 -2208.7  
  
5123 9.8 192126.8 -2209.9  
5124 8.9 192130.4 -2216.5  
5125 9.5 192132.5 -2232.8  
5126 9.8 192136.2 -2239.2  
5127 8.8 192139.8 -2243.0  
5128 9.3 192143.5 -2214.5  
5129 10. 192219.5 -2207.8  
5130 10. 192222.5 -2211.0  
5131 9.3 192241.7 -2201.4  
5132 9.5 192244.6 -2202.8  
  
5133 9.4 192246.9 -2206.1  
5134 9.8 192300.3 -2203.3  
5135 9.6 192310.7 -2201.6  
5136 10. 192336.6 -2207.4  
5137 9.5 192352.1 -2229.5  
5138 9.5 192358.6 -2230.2  
5139 9.5 192404.6 -2229.8  
5140 10. 192404.9 -2224.6  
5141 9.8 192410.4 -2229.7  
5142 8.7 192417.1 -2218.4  
  
5143 9.8 192429.4 -2224.1  
5144 9.5 192432.0 -2230.2  
5145 9.5 192444.5 -2244.8  
5146 9.1 192448.8 -2240.1  
5147 9.8 192450.5 -2215.9  
5148 9.8 192508.5 -2211.5  
5149 9.4 192509.7 -2203.8  
5150 9.7 192514.6 -2215.6  
5151 9.8 192517.0 -2219.1  
5152 9.5 192520.9 -2236.7  
  
5153 9.5 192527.2 -2257.8  
5154 8.8 192528.7 -2225.1  
5155 9.5 192534.5 -2214.8  
5156 8.3 192606.3 -2214.8  
5157 9.8 192616.4 -2241.0  
5158 9.9 192623.5 -2229.4  
5159 9.8 192656.8 -2201.3  
5160 8.3 192702.2 -2229.0  
5161 9.8 192702.6 -2214.7  
5162 9.3 192710.2 -2215.8  
  
5163 9.1 192722.8 -2249.6  
5164 10. 192728.4 -2237.5  
5165 9.4 192746.2 -2240.4  
5166 9.0 192810.6 -2235.2  
5167 7.8 192816.2 -2213.0  
5168 8.5 192840.1 -2234.4  
5169 8.2 192847.9 -2216.1  
5170 9.4 192851.1 -2203.1  
5171 9.4 192901.7 -2204.2  
5172 9.8 192921.6 -2206.4  
  
5173 10. 192924.5 -2225.0  
5174 9.5 192936.0 -2235.8  
5175 9.5 192937.4 -2232.7  
5176 9.4 192945.0 -2256.0  
5177 9.4 192949.6 -2236.7  
5178 9.5 193029.5 -2241.8  
5179 9.0 193034.2 -2254.7  
5180 9.8 193040.4 -2256.8  
5181 9.3 193041.2 -2247.3  
5182 9.7 193116.4 -2212.2  
  
5183 7.3 193117.1 -2223.0  
5184 9.2 193121.3 -2255.0  
5185 9.8 193128.0 -2256.4  
5186 10. 193133.3 -2246.5  
5187 10. 193133.3 -2247.4  
5188 10. 193206.6 -2230.5  
5189 9.4 193214.2 -2256.4  
5190 9.8 193216.6 -2235.0  
5191 9.0 193223.5 -2245.2  
5192 9.8 193238.5 -2249.3  
  
5193 9.5 193303.6 -2228.4  
5194 9.4 193303.8 -2219.4  
5195 9.5 193314.5 -2247.4  
5196 9.5 193318.4 -2249.2  
5197 9.0 193322.5 -2242.8  
5198 9.5 193410.6 -2239.0  
5199 9.5 193425.0 -2219.7  
5200 9.5 193433.8 -2259.6  
5201 9.1 193442.9 -2233.2  
5202 10. 193444.8 -2212.6

5203 8.9 193459.7 -2215.9  
5204 9.7 193500.6 -2203.2  
5205 9.1 193507.5 -2247.5  
5206 9.4 193528.0 -2204.0  
5207 9.1 193534.3 -2235.0  
5208 9.5 193536.0 -2202.2  
5209 9.8 193546.1 -2228.7  
5210 10. 193551.7 -2236.4  
5211 8.3 193602.9 -2253.4  
5212 9.5 193608.9 -2209.8  
  
5213 9.5 193618.2 -2241.3  
5214 9.6 193627.4 -2255.2  
5215 9.0 193630.1 -2243.2  
5216 9.5 193644.0 -2227.2  
5217 9.5 193648.5 -2254.1  
5218 9.6 193649.6 -2220.9  
5219 9.5 193658.6 -2252.5  
5220 9.8 193700.0 -2224.5  
5221 9.0 193702.2 -2250.7  
5222 10. 193714.9 -2204.6  
  
5223 8.9 193718.0 -2225.2  
5224 10. 193738.2 -2231.0  
5225 9.6 193746.3 -2207.0  
5226 9.6 193759.8 -2216.2  
5227 9.5 193814.1 -2242.2  
5228 9.8 193819.6 -2244.0  
5229 10. 193820.7 -2234.6  
5230 9.5 193826.5 -2206.4  
5231 8.0 193852.6 -2210.8  
5232 9.8 193906.7 -2241.4  
  
5233 10. 193917.8 -2227.5  
5234 9.4 193919.7 -2206.5  
5235 9.3 193923.5 -2231.8  
5236 9.4 193924.6 -2256.4  
5237 9.3 193930.7 -2221.2  
5238 9.5 193939.6 -2255.9  
5239 9.0 193951.7 -2222.8  
5240 9.8 193958.0 -2229.8  
5241 9.8 194012.8 -2220.0  
5242 9.5 194016.2 -2243.2  
  
5243 9.6 194020.9 -2258.8  
5244 9.8 194039.0 -2232.5  
5245 9.8 194040.8 -2224.9  
5246 9.5 194103.2 -2212.1  
5247 9.1 194137.9 -2235.4  
5248 9.7 194159.5 -2215.6  
5249 9.5 194203.1 -2250.0  
5250 9.6 194224.5 -2201.4  
5251 9.8 194228.0 -2229.0  
5252 9.8 194232.2 -2247.5  
  
5253 9.5 194233.5 -2216.4  
5254 9.0 194253.2 -2245.1  
5255 9.4 194254.6 -2233.9  
5256 10. 194256.7 -2254.0  
5257 9.4 194304.6 -2230.6  
5258 9.6 194315.2 -2205.8  
5259 9.3 194344.0 -2234.8  
5260 9.5 194344.4 -2242.4  
5261 9.8 194356.7 -2253.1  
5262 9.4 194359.3 -2241.6  
  
5263 8.9 194403.0 -2234.8  
5264 9.4 194404.7 -2251.6  
5265 9.6 194412.1 -2252.5  
5266 9.3 194416.3 -2242.0  
5267 9.5 194503.8 -2248.7  
5268 9.6 194505.0 -2208.4  
5269 8.9 194524.7 -2251.2  
5270 10. 194538.2 -2274.0  
5271 9.1 194558.8 -2207.0  
5272 10. 194621.1 -2206.8  
  
5273 9.8 194628.9 -2218.1  
5274 9.2 194638.1 -2230.4  
5275 9.4 194642.8 -2207.4  
5276 9.3 194648.0 -2237.3  
5277 9.3 194649.0 -2231.1  
5278 9.8 194705.1 -2214.8  
5279 9.1 194716.9 -2220.6  
5280 9.7 194717.0 -2247.9  
5281 9.7 194742.3 -2201.0  
5282 9.0 194804.4 -2245.2  
  
5283 9.1 194805.8 -2223.3  
5284 9.8 194836.9 -2238.6  
5285 9.4 194930.5 -2230.3  
5286 9.1 194939.4 -2243.7  
5287 9.8 194947.0 -2201.5  
5288 9.2 194948.5 -2259.0  
5289 8.0 194958.2 -2238.3  
5290 9.5 195001.3 -2204.8  
5291 8.8 195027.0 -2239.3  
5292 9.3 195032.1 -2237.3

5293 9.5 195035.6 -2208.9  
5294 8.0 195037.8 -2218.5  
5295 9.5 195046.3 -2248.5  
5296 6.5 195058.2 -2235.9  
5297 9.5 195103.6 -2227.4  
5298 9.7 195115.0 -2238.7  
5299 9.2 195125.1 -2228.6  
5300 8.7 195129.8 -2209.5  
5301 9.1 195208.1 -2253.8  
5302 9.5 195229.9 -2252.6  
  
5303 10. 195237.3 -2200.8  
5304 9.5 195246.2 -2205.8  
5305 9.5 195302.0 -2200.7  
5306 8.0 195303.8 -2230.1  
5307 9.5 195311.8 -2240.6  
5308 9.5 195312.6 -2228.3  
5309 9.3 195316.5 -2221.0  
5310 10. 195323.0 -2238.2  
5311 9.5 195334.7 -2231.3  
5312 9.3 195340.3 -2232.5  
  
5313 10. 195421.3 -2229.7  
5314 9.6 195423.5 -2213.5  
5315 9.5 195433.3 -2230.5  
5316 9.5 195443.6 -2240.0  
5317 10. 195443.7 -2216.8  
5318 6.8 195508.2 -2259.7  
5319 9.0 195515.9 -2251.7  
5320 9.0 195531.0 -2222.9  
5321 9.3 195539.6 -2212.3  
5322 8.0 195552.3 -2235.6  
  
5323 9.4 195555.2 -2220.0  
5324 9.1 195557.6 -2232.9  
5325 9.1 195604.8 -2200.1  
5326 9.7 195615.2 -2229.0  
5327 9.7 195616.1 -2247.3  
5328 8.8 195617.5 -2219.5  
5329 9.4 195703.0 -2251.2  
5330 9.5 195706.9 -2229.1  
5331 20.0 195731.8 -2220.1  
5332 9.4 195739.1 -2241.0  
  
5333 9.5 195740.2 -2223.1  
5334 9.9 195800.4 -2201.0  
5335 7.6 195801.7 -2204.9  
5336 9.3 195819.5 -2226.2  
5337 9.5 195821.1 -2244.5  
5338 9.8 195845.5 -2222.8  
5339 9.3 195849.0 -2227.3  
5340 9.4 195857.0 -2222.8  
5341 9.5 195933.2 -2247.4  
5342 9.8 200009.8 -2246.5  
  
5343 9.5 200015.5 -2243.3  
5344 9.5 200037.3 -2224.6  
5345 9.3 200044.0 -2233.1  
5346 8.9 200111.4 -2234.0  
5347 9.8 200137.2 -2244.7  
5348 9.0 200139.0 -2238.9  
5349 9.5 200202.2 -2200.0  
5350 9.8 200206.9 -2238.1  
5351 9.8 200212.1 -2207.7  
5352 9.4 200227.3 -2216.4  
  
5353 9.4 200240.5 -2234.5  
5354 8.0 200252.2 -2222.5  
5355 9.3 200303.9 -2258.0  
5356 9.5 200306.3 -2241.4  
5357 9.8 200308.9 -2236.0  
5358 10. 200324.5 -2204.5  
5359 9.8 200330.3 -2249.7  
5360 9.8 200339.1 -2229.8  
5361 9.3 200341.4 -2240.0  
5362 9.0 200404.4 -2253.0  
  
5363 9.8 200418.7 -2250.5  
5364 9.1 200438.9 -2202.4  
5365 9.8 200441.5 -2217.0  
5366 8.5 200443.8 -2229.3  
5367 9.2 200454.0 -2233.9  
5368 9.5 200518.9 -2239.7  
5369 9.4 200521.4 -2250.0  
5370 9.5 200526.8 -2248.6  
5371 9.4 200541.9 -2240.0  
5372 7.5 200545.6 -2228.4  
  
5373 30.0 200557.0 -2224.9  
5374 9.4 200602.1 -2228.9  
5375 9.3 200636.8 -2216.4  
5376 9.8 200653.4 -2235.5  
5377 9.5 200703.5 -2233.6  
5378 10. 200744.8 -2252.0  
5379 9.1 200747.0 -2214.7  
5380 10. 200803.6 -2247.3  
5381 8.8 200803.6 -2254.7  
5382 10. 200831.9 -2243.6

5383 10. 200848.7 -2207.9  
5384 6.0 200930.5 -2215.0  
5385 7.8 200933.8 -2226.4  
5386 9.8 201036.9 -2238.2  
5387 9.1 201037.3 -2205.8  
5388 10. 201039.7 -2201.0  
5389 8.5 201039.8 -2234.9  
5390 8.8 201109.0 -2220.1  
5391 10. 201124.8 -2242.7  
5392 9.1 201128.1 -2201.6  
  
5393 9.2 201129.9 -2234.7  
5394 9.8 201132.6 -2223.0  
5395 9.6 201209.2 -2211.2  
5396 9.1 201209.8 -2216.4  
5397 10. 201212.0 -2207.1  
5398 9.5 201223.1 -2229.4  
5399 9.4 201224.1 -2237.9  
5400 9.5 201245.1 -2216.4  
5401 9.9 201255.8 -2259.5  
5402 9.3 201312.6 -2227.2  
  
5403 9.5 201314.5 -2203.9  
5404 9.0 201317.7 -2202.4  
5405 9.4 201322.1 -2203.0  
5406 7.3 201335.2 -2224.7  
5407 9.4 201343.2 -2231.5  
5408 8.8 201343.4 -2248.2  
5409 10. 201356.0 -2241.1  
5410 10. 201356.8 -2259.4  
5411 6.2 201405.6 -2248.2  
5412 9.5 201425.2 -2216.4  
  
5413 9.5 201439.8 -2202.3  
5414 9.3 201441.0 -2235.2  
5415 9.8 201446.8 -2242.8  
5416 9.4 201515.6 -2249.8  
5417 9.4 201537.0 -2218.4  
5418 9.5 201550.5 -2246.7  
5419 8.1 201550.6 -2230.4  
5420 9.6 201555.6 -2217.3  
5421 9.3 201616.3 -2215.8  
5422 9.3 201640.6 -2254.9  
  
5423 9.5 201651.4 -2222.3  
5424 9.8 201656.9 -2212.9  
5425 8.6 201705.1 -2207.3  
5426 8.8 201706.0 -2215.2  
5427 9.7 201711.9 -2202.5  
5428 9.8 201734.8 -2207.3  
5429 8.5 201755.2 -2255.3  
5430 9.3 201801.3 -2223.5  
5431 9.8 201805.2 -2234.9  
5432 9.5 201815.0 -2241.4  
  
5433 8.3 201845.3 -2226.9  
5434 9.1 201912.7 -2229.8  
5435 8.0 201935.2 -2239.8  
5436 9.6 202000.9 -2203.7  
5437 9.3 202018.9 -2246.6  
5438 9.5 202019.8 -2229.4  
5439 9.1 202023.9 -2248.6  
5440 9.7 202043.5 -2223.1  
5441 9.9 202046.0 -2223.5  
5442 6.2 202100.6 -2252.2  
  
5443 9.1 202102.5 -2255.9  
5444 9.5 202110.1 -2248.9  
5445 9.5 202113.6 -2221.8  
5446 9.3 202134.8 -2218.5  
5447 8.8 202136.5 -2259.6  
5448 9.7 202148.1 -2209.6  
5449 9.4 202159.1 -2208.0  
5450 9.4 202171.2 -2258.0  
5451 9.0 202224.5 -2251.1  
5452 9.3 202225.1 -2236.0  
  
5453 9.3 202229.2 -2231.8  
5454 9.5 202240.3 -2255.1  
5455 8.7 202307.7 -2259.1  
5456 9.2 202318.8 -2231.0  
5457 8.5 202343.4 -2238.3  
5458 8.8 202344.1 -2238.9  
5459 9.7 202356.4 -2235.4  
5460 10. 202411.9 -2242.6  
5461 9.6 202428.6 -2238.6  
5462 9.5 202432.6 -2241.5  
  
5463 10. 202455.1 -2200.1  
5464 7.7 202502.1 -2243.2  
5465 10. 202542.7 -2204.0  
5466 9.7 202544.4 -2255.2  
5467 9.5 202545.6 -2232.6  
5468 9.7 202549.1 -2217.1  
5469 9.2 202554.4 -2241.1  
5470 9.8 202616.4 -2229.0  
5471 9.6 202628.3 -2218.6  
5472 9.8 202622.7 -2233.8

-22 5472 20h26m



-22 5473 20h26m

5473 10. 202640.6 -2234.2  
5474 9.5 202648.4 -2208.9  
5475 9.3 202649.0 -2218.9  
5476 9.7 202658.2 -2236.2  
5477 9.6 202713.7 -2216.4  
5478 9.8 202721.1 -2230.2  
5479 9.4 202733.2 -2235.4  
5480 9.4 202733.9 -2203.0  
5481 9.3 202737.1 -2233.4  
5482 9.2 202738.1 -2208.3  
  
5483 9.7 202907.2 -2211.6  
5484 7.8 202914.4 -2256.6  
5485 9.4 202929.5 -2214.9  
5486 9.5 202937.8 -2235.0  
5487 9.3 202940.9 -2203.9  
5488 9.5 202958.8 -2237.9  
5489 9.9 203017.0 -2215.4  
5490 9.1 203019.6 -2249.5  
5491 9.8 203031.0 -2224.6  
5492 9.5 203045.4 -2236.8  
  
5493 9.5 203124.7 -2223.0  
5494 9.6 203149.5 -2207.0  
5495 9.2 203151.4 -2204.8  
5496 9.3 203200.1 -2213.4  
5497 10. 203205.2 -2202.8  
5498 9.0 203205.2 -2207.8  
5499 10. 203212.0 -2222.4  
5500 9.8 203236.0 -2226.0  
5501 9.8 203253.5 -2237.8  
5502 9.2 203259.0 -2221.3  
  
5503 9.9 203303.1 -2206.2  
5504 9.2 203308.9 -2249.0  
5505 9.3 203334.9 -2259.1  
5506 9.1 203335.1 -2248.5  
5507 9.5 203415.2 -2214.0  
5508 8.8 203440.8 -2228.6  
5509 9.9 203445.9 -2209.7  
5510 8.9 203454.9 -2249.2  
5511 7.5 203459.3 -2257.9  
5512 10. 203513.5 -2205.8  
  
5513 9.4 203521.7 -2200.9  
5514 9.1 203529.0 -2246.5  
5515 9.8 203603.5 -2245.0  
5516 8.9 203608.0 -2207.4  
5517 9.5 203652.8 -2216.3  
5518 9.2 203655.1 -2246.8  
5519 9.8 203709.9 -2221.6  
5520 9.2 203711.7 -2252.1  
5521 9.4 203721.8 -2210.1  
5522 8.0 203743.7 -2215.6  
  
5523 5.9 203745.3 -2201.9  
5524 9.7 203757.0 -2258.5  
5525 9.1 203758.6 -2216.8  
5526 8.0 203803.2 -2241.1  
5527 9.2 203805.9 -2212.6  
5528 9.4 203810.9 -2257.4  
5529 9.3 203821.0 -2245.0  
5530 9.1 203821.8 -2246.4  
5531 9.2 203828.4 -2226.0  
5532 9.0 203848.4 -2228.2  
  
5533 9.0 203902.5 -2216.4  
5534 9.6 203903.1 -2212.6  
5535 9.9 203920.3 -2239.0  
5536 9.3 203934.3 -2241.9  
5537 10. 203948.6 -2209.8  
5538 8.9 204002.8 -2236.1  
5539 10. 204019.0 -2220.0  
5540 9.5 204028.7 -2256.5  
5541 9.5 204029.4 -2222.7  
5542 8.8 204042.8 -2209.7  
  
5543 9.6 204045.3 -2221.1  
5544 8.5 204125.2 -2225.7  
5545 9.7 204143.3 -2203.6  
5546 9.4 204220.6 -2206.3  
5547 9.0 204239.2 -2209.6  
5548 9.3 204247.4 -2231.9  
5549 9.3 204247.9 -2213.2  
5550 9.8 204250.5 -2258.3  
5551 9.0 204303.1 -2227.7  
5552 10. 204343.7 -2228.3  
  
5553 9.8 204420.0 -2237.7  
5554 10. 204435.8 -2203.9  
5555 8.8 204438.6 -2234.8  
5556 9.9 204459.3 -2229.9  
5557 8.5 204512.1 -2258.1  
5558 9.5 204512.8 -2249.4  
5559 9.3 204555.2 -2256.2  
5560 9.5 204558.7 -2238.6  
5561 9.0 204601.8 -2200.2  
5562 9.4 204609.1 -2201.7

5563 9.0 204615.4 -2222.9  
5564 8.5 204626.5 -2238.7  
5565 9.1 204633.7 -2251.8  
5566 10. 204642.7 -2217.4  
5567 8.3 204654.0 -2240.5  
5568 9.5 204654.9 -2235.0  
5569 9.2 204741.8 -2227.8  
5570 9.0 204745.6 -2239.0  
5571 9.1 204817.9 -2225.3  
5572 7.5 204828.3 -2233.1  
  
5573 9.0 204855.1 -2210.9  
5574 9.5 204909.3 -2229.0  
5575 10. 204911.5 -2203.6  
5576 8.3 204924.5 -2206.7  
5577 9.8 204940.3 -2232.8  
5578 9.3 204944.7 -2240.9  
5579 9.9 204953.7 -2209.5  
5580 9.8 205007.6 -2217.4  
5581 10. 205023.9 -2209.5  
5582 9.6 205058.8 -2238.0  
  
5583 8.7 205135.6 -2210.0  
5584 8.8 205148.5 -2253.4  
5585 9.8 205224.5 -2200.5  
5586 9.0 205254.3 -2200.5  
5587 10. 205302.4 -2259.8  
5588 9.5 205322.2 -2248.2  
5589 9.7 205340.1 -2214.7  
5590 9.8 205345.0 -2244.5  
5591 9.0 205412.9 -2253.1  
5592 8.2 205440.3 -2232.1  
  
5593 9.8 205454.6 -2202.0  
5594 10. 205457.6 -2212.4  
5595 8.4 205503.3 -2206.3  
5596 9.4 205519.6 -2244.3  
5597 9.4 205528.5 -2252.6  
5598 9.7 205531.2 -2217.2  
5599 9.7 205555.1 -2245.0  
5600 9.3 205602.0 -2244.6  
5601 9.1 205640.5 -2219.5  
5602 9.5 205654.6 -2209.3  
  
5603 9.4 205703.5 -2248.4  
5604 9.7 205736.0 -2252.2  
5605 9.5 205803.6 -2251.9  
5606 9.1 205816.9 -2234.8  
5607 9.6 205847.5 -2221.8  
5608 9.8 205901.9 -2237.5  
5609 9.1 205906.5 -2233.5  
5610 9.4 205910.1 -2228.1  
5611 9.3 205918.1 -2205.7  
5612 7.8 205934.1 -2254.8  
  
5613 9.1 205934.3 -2215.3  
5614 7.8 210016.2 -2215.4  
5615 9.2 210029.6 -2232.0  
5616 9.5 210103.0 -2216.2  
5617 9.4 210108.7 -2249.6  
5618 10. 210123.6 -2204.3  
5619 9.5 210143.5 -2209.8  
5620 9.8 210156.1 -2238.0  
5621 9.5 210238.5 -2216.0  
5622 9.9 210321.2 -2257.9  
  
5623 9.0 210348.8 -2229.1  
5624 9.4 210350.7 -2239.8  
5625 9.4 210412.0 -2208.3  
5626 9.3 210416.3 -2222.0  
5627 9.7 210440.6 -2213.2  
5628 9.0 210525.1 -2241.2  
5629 8.8 210533.7 -2239.0  
5630 7.0 210541.4 -2248.1  
5631 9.3 210557.4 -2202.0  
5632 10. 210605.6 -2248.1  
  
5633 9.5 210629.4 -2201.4  
5634 9.0 210632.5 -2224.8  
5635 7.7 210644.5 -2224.6  
5636 10. 210645.5 -2227.2  
5637 9.9 210715.0 -2226.2  
5638 8.0 210735.2 -2202.0  
5639 8.9 210753.1 -2246.4  
5640 9.9 210807.1 -2211.2  
5641 8.9 210809.9 -2230.6  
5642 10. 210815.6 -2254.8  
  
5643 9.7 210815.6 -2214.4  
5644 10. 210824.1 -2256.0  
5645 9.2 210845.2 -2223.3  
5646 9.2 210846.6 -2210.8  
5647 8.8 210857.3 -2240.8  
5648 8.1 210858.7 -2220.3  
5649 9.4 210915.6 -2200.1  
5650 8.3 210918.1 -2212.1  
5651 9.7 210922.0 -2227.3  
5652 10. 210924.5 -2228.0

5653 9.5 210941.9 -2234.5  
5654 9.0 210942.1 -2238.9  
5655 10. 211005.0 -2258.0  
5656 9.6 211021.8 -2242.9  
5657 9.8 211025.2 -2209.1  
5658 8.3 211034.4 -2238.3  
5659 9.4 211037.3 -2242.0  
5660 10. 211043.6 -2253.1  
5661 9.4 211112.6 -2252.3  
5662 8.7 211117.5 -2232.2  
  
5663 9.4 211134.0 -2258.0  
5664 9.8 211135.8 -2210.9  
5665 9.6 211142.5 -2201.7  
5666 9.3 211144.7 -2202.0  
5667 9.3 211220.9 -2211.4  
5668 8.2 211224.4 -2205.8  
5669 9.0 211245.4 -2203.8  
5670 9.8 211302.7 -2252.2  
5671 9.8 211324.7 -2204.4  
5672 9.1 211339.7 -2208.5  
  
5673 9.5 211356.0 -2239.4  
5674 9.4 211415.1 -2232.7  
5675 10. 211421.6 -2246.5  
5676 9.7 211444.4 -2208.6  
5677 9.1 211444.9 -2244.0  
5678 9.2 211557.1 -2240.3  
5679 9.0 211604.8 -2228.7  
5680 9.6 211608.0 -2222.3  
5681 9.2 211641.4 -2216.2  
5682 9.0 211706.7 -2239.5  
  
5683 8.3 211726.4 -2216.8  
5684 8.8 211727.3 -2208.0  
5685 8.3 211759.0 -2226.8  
5686 9.1 211800.4 -2230.9  
5687 9.7 211802.5 -2226.4  
5688 9.7 211805.8 -2209.8  
5689 10. 211834.1 -2212.8  
5690 9.4 211843.3 -2245.8  
5691 8.2 211957.4 -2220.6  
5692 5.7 212027.1 -2226.1  
  
5693 9.0 212029.5 -2233.5  
5694 9.3 212039.4 -2216.6  
5695 9.4 212047.8 -2249.5  
5696 8.5 212052.9 -2235.3  
5697 8.9 212129.4 -2238.7  
5698 9.5 212215.9 -2240.9  
5699 9.8 212218.8 -2218.6  
5700 9.4 212228.6 -2256.7  
5701 9.4 212241.9 -2212.1  
5702 9.3 212302.0 -2259.7  
  
5703 9.5 212315.1 -2230.4  
5704 9.3 212317.0 -2234.6  
5705 7.8 212317.7 -2238.6  
5706 9.4 212335.7 -2203.2  
5707 9.5 212401.4 -2239.6  
5708 9.8 212408.8 -2200.7  
5709 8.3 212425.3 -2224.9  
5710 9.3 212439.7 -2231.4  
5711 9.4 212511.7 -2230.4  
5712 9.2 212519.2 -2254.4  
  
5713 9.0 212523.6 -2217.9  
5714 8.5 212525.5 -2236.5  
5715 9.5 212526.7 -2233.2  
5716 9.4 212555.7 -2254.5  
5717 9.9 212606.8 -2257.6  
5718 9.5 212629.4 -2226.2  
5719 9.7 212652.4 -2208.8  
5720 9.0 212659.1 -2242.0  
5721 10. 212717.7 -2246.7  
5722 9.5 212735.5 -2224.5  
  
5723 10. 212740.3 -2212.5  
5724 9.2 212822.7 -2256.8  
5725 9.0 212828.9 -2228.6  
5726 7.8 212831.3 -2208.7  
5727 9.3 212839.6 -2204.7  
5728 10. 212906.8 -2253.6  
5729 9.0 212912.9 -2248.3  
5730 9.4 212929.7 -2202.8  
5731 9.8 212938.5 -2232.5  
5732 9.8 212946.0 -2248.7  
  
5733 9.6 213013.9 -2233.6  
5734 9.3 213040.6 -2209.4  
5735 7.5 213055.5 -2221.7  
5736 9.4 213057.8 -2257.3  
5737 9.7 213103.2 -2212.1  
5738 9.7 213137.7 -2210.8  
5739 8.7 213142.6 -2249.0  
5740 9.7 213205.3 -2216.3  
5741 9.6 213211.6 -2213.5  
5742 9.0 213239.1 -2249.5

-22 5832 21h58m

5743 9.5 213252.9 -2259.0  
5744 9.2 213309.0 -2232.3  
5745 7.8 213317.9 -2235.2  
5746 8.0 213321.5 -2218.9  
5747 9.5 213337.9 -2249.5  
5748 9.4 213407.6 -2255.4  
5749 9.4 213412.7 -2225.0  
5750 9.6 213429.2 -2204.1  
5751 9.5 213455.3 -2246.0  
5752 9.6 213516.3 -2248.5  
  
5753 9.5 213545.4 -2237.7  
5754 9.7 213551.8 -2218.7  
5755 9.5 213639.8 -2227.9  
5756 8.8 213709.6 -2232.2  
5757 9.5 213719.1 -2213.6  
5758 9.7 213723.1 -2222.4  
5759 9.6 213742.4 -2224.9  
5760 9.8 213817.4 -2208.6  
5761 9.8 213817.8 -2214.4  
5762 9.3 213819.3 -2247.7  
  
5763 9.8 213836.2 -2226.0  
5764 8.7 213856.1 -2219.9  
5765 9.8 213905.5 -2214.1  
5766 9.2 213941.6 -2201.2  
5767 9.5 214014.7 -2216.4  
5768 9.1 214018.0 -2220.5  
5769 9.7 214025.4 -2228.0  
5770 8.7 214052.8 -2247.8  
5771 9.6 214054.3 -2229.6  
5772 8.4 214112.1 -2240.0  
  
5773 9.8 214112.3 -2251.0  
5774 9.1 214129.4 -2228.8  
5775 9.4 214140.3 -2252.2  
5776 8.8 214214.6 -2253.3  
5777 9.8 214259.4 -2251.0  
5778 9.3 214302.9 -2221.0  
5779 8.3 214313.6 -2225.7  
5780 9.5 214322.3 -2201.5  
5781 9.7 214354.7 -2238.8  
5782 9.7 214408.5 -2241.1  
  
5783 9.5 214428.6 -2223.7  
5784 9.0 214448.2 -2233.5  
5785 9.1 214527.0 -2237.3  
5786 8.6 214527.6 -2224.1  
5787 9.4 214531.8 -2233.0  
5788 9.5 214552.7 -2222.1  
5789 9.5 214628.8 -2230.6  
5790 9.5 214631.7 -2247.8  
5791 9.5 214650.1 -2216.2  
5792 9.1 214714.4 -2259.7  
  
5793 9.8 214759.3 -2251.8  
5794 8.5 214821.8 -2220.7  
5795 9.0 214827.8 -2227.0  
5796 9.1 214855.4 -2242.5  
5797 9.4 214908.7 -2256.6  
5798 9.5 214908.7 -2252.8  
5799 9.0 214921.2 -2257.5  
5800 9.6 214927.8 -2208.4  
5801 9.2 214929.1 -2205.7  
5802 9.5 214948.0 -2259.1  
  
5803 9.5 214955.9 -2202.5  
5804 9.9 215011.3 -2205.2  
5805 9.4 215016.9 -2210.5  
5806 9.6 215025.4 -2229.3  
5807 9.1 215049.0 -2218.7  
5808 9.2 215117.5 -2248.1  
5809 9.1 215139.0 -2224.6  
5810 9.8 215201.6 -2215.7  
5811 9.8 215205.3 -2233.6  
5812 10. 215306.0 -2222.4  
  
5813 9.8 215315.5 -2221.7  
5814 9.5 215337.6 -2207.7  
5815 9.2 215342.9 -2219.6  
5816 8.7 215406.6 -2248.2  
5817 9.7 215419.4 -2200.0  
5818 9.6 215428.5 -2208.1  
5819 10. 215435.4 -2207.7  
5820 9.7 215449.5 -2213.0  
5821 9.9 215453.2 -2259.6  
5822 9.5 215522.1 -2223.8  
  
5823 9.3 215601.3 -2229.6  
5824 8.0 215605.2 -2228.5  
5825 9.8 215613.3 -2222.0  
5826 9.5 215621.8 -2232.8  
5827 9.0 215645.3 -2259.7  
5828 8.5 215648.8 -2256.5  
5829 9.3 215725.8 -2228.8  
5830 9.4 215754.4 -2220.7  
5831 9.4 215802.9 -2256.5  
5832 9.3 215843.3 -2247.3



-22 5833 21h59m

5833 6.8 215909.9 -2257.0  
5834 9.0 215913.9 -2247.6  
5835 9.5 215942.2 -2259.0  
5836 8.0 215947.1 -2217.6  
5837 10. 220000.0 -2233.1  
5838 9.0 220037.9 -2223.7  
5839 9.5 220046.0 -2258.6  
5840 10. 220105.4 -2203.1  
5841 9.5 220124.1 -2221.1  
5842 10. 220141.4 -2253.2

5843 9.5 220201.1 -2247.2  
5844 9.5 220204.2 -2207.8  
5845 10. 220207.0 -2219.7  
5846 9.0 220211.9 -2250.6  
5847 9.5 220213.4 -2222.5  
5848 9.2 220222.1 -2238.0  
5849 10. 220315.6 -2248.8  
5850 8.3 220319.2 -2255.0  
5851 9.2 220321.6 -2255.8  
5852 9.0 220344.0 -2205.2

5853 10. 220358.7 -2201.6  
5854 9.0 220444.3 -2212.7  
5855 9.5 220446.5 -2205.2  
5856 9.5 220447.7 -2223.7  
5857 9.5 220448.4 -2221.1  
5858 8.9 220451.8 -2211.6  
5859 9.3 220503.0 -2201.9  
5860 8.2 220508.2 -2207.3  
5861 9.5 220513.3 -2225.4  
5862 8.3 220549.8 -2258.4

5863 10. 220603.8 -2239.1  
5864 8.0 220605.6 -2207.4  
5865 9.8 220613.7 -2217.0  
5866 9.4 220635.3 -2225.5  
5867 9.6 220655.3 -2202.2  
5868 9.7 220657.9 -2256.7  
5869 9.4 220716.6 -2253.2  
5870 9.5 220750.4 -2248.9  
5871 9.1 220801.1 -2200.9  
5872 9.4 220816.2 -2252.9

5873 9.3 220826.9 -2238.2  
5874 10. 220828.1 -2246.8  
5875 10. 220836.5 -2248.1  
5876 9.8 220909.7 -2217.9  
5877 9.8 220919.6 -2206.9  
5878 9.5 220956.6 -2212.5  
5879 8.8 221014.3 -2208.9  
5880 9.7 221023.0 -2217.7  
5881 9.5 221024.1 -2252.4  
5882 9.1 221055.6 -2258.0

5883 10. 221117.8 -2212.8  
5884 9.4 221142.0 -2250.9  
5885 9.4 221144.5 -2250.0  
5886 9.5 221153.5 -2226.1  
5887 8.9 221157.1 -2202.8  
5888 8.0 221159.5 -2244.3  
5889 9.8 221218.1 -2241.4  
5890 9.4 221228.2 -2232.7  
5891 9.4 221236.7 -2220.9  
5892 9.8 221244.6 -2223.0

5893 9.0 221301.6 -2222.3  
5894 9.4 221302.3 -2254.1  
5895 8.8 221309.1 -2221.2  
5896 9.2 221322.7 -2203.5  
5897 5.7 221336.1 -2219.1  
5898 9.9 221351.2 -2239.0  
5899 9.0 221444.2 -2254.3  
5900 10. 221454.5 -2215.1  
5901 9.4 221512.2 -2247.5  
5902 9.8 221542.3 -2202.6

5903 9.0 221554.3 -2238.4  
5904 7.5 221616.9 -2219.6  
5905 8.5 221622.4 -2259.3  
5906 9.7 221652.8 -2255.9  
5907 9.8 221714.8 -2203.3  
5908 9.2 221727.4 -2245.9  
5909 9.8 221736.9 -2235.8  
5910 8.5 221738.5 -2220.0  
5911 9.6 221745.4 -2231.8  
5912 9.3 221751.2 -2231.6

5913 9.3 221756.3 -2213.9  
5914 9.3 221853.1 -2219.5  
5915 9.8 221949.0 -2208.1  
5916 8.0 221953.5 -2236.5  
5917 9.2 222022.5 -2259.6  
5918 10. 222027.9 -2242.8  
5919 9.5 222031.0 -2222.2  
5920 7.8 222050.0 -2248.6  
5921 9.3 222058.1 -2240.9  
5922 9.5 222141.0 -2209.2

5923 9.5 222144.1 -2224.4  
5924 9.0 222148.1 -2254.1  
5925 9.5 222214.0 -2206.4  
5926 9.5 222214.3 -2200.1  
5927 9.8 222245.6 -2248.6  
5928 9.3 222257.7 -2239.0  
5929 9.8 222343.7 -2213.0  
5930 8.8 222347.2 -2238.1  
5931 9.1 222354.1 -2243.2  
5932 9.4 222400.6 -2248.1

5933 9.2 222407.0 -2220.7  
5934 9.6 222433.7 -2205.4  
5935 9.5 222450.3 -2230.1  
5936 9.6 222509.8 -2224.5  
5937 9.1 222530.3 -2240.0  
5938 8.5 222556.8 -2251.2  
5939 9.3 222602.8 -2233.0  
5940 9.6 222615.3 -2253.4  
5941 9.8 222620.5 -2237.9  
5942 9.2 222633.8 -2205.8

5943 9.9 222636.3 -2237.7  
5944 8.8 222710.9 -2249.8  
5945 9.3 222733.7 -2211.6  
5946 9.3 222818.2 -2226.4  
5947 9.0 222820.1 -2225.7  
5948 9.5 222827.4 -2250.0  
5949 9.5 222827.9 -2245.5  
5950 10. 222835.5 -2211.3  
5951 8.6 222836.0 -2220.0  
5952 9.5 222852.1 -2229.8

5953 8.9 222855.1 -2216.7  
5954 9.1 222858.5 -2225.1  
5955 9.9 222901.9 -2228.5  
5956 8.3 222940.0 -2232.9  
5957 9.6 222944.0 -2215.9  
5958 9.8 223021.1 -2255.3  
5959 9.5 223037.0 -2258.0  
5960 8.6 223047.2 -2224.2  
5961 9.2 223109.7 -2217.7  
5962 8.9 223145.6 -2256.8

5963 10. 223203.3 -2243.1  
5964 10. 223204.2 -2237.8  
5965 9.5 223223.1 -2205.5  
5966 9.3 223227.8 -2249.3  
5967 9.5 223230.3 -2233.4  
5968 9.5 223235.8 -2216.0  
5969 9.5 223253.2 -2246.5  
5970 9.8 223302.3 -2259.0  
5971 10. 223306.6 -2254.5  
5972 9.4 223325.2 -2238.5

5973 10. 223333.0 -2256.1  
5974 9.8 223351.0 -2224.4  
5975 9.4 223402.7 -2222.4  
5976 9.0 223414.8 -2231.7  
5977 9.9 223425.4 -2229.1  
5978 10. 223427.5 -2226.1  
5979 9.7 223447.5 -2205.4  
5980 9.5 223453.2 -2231.1  
5981 9.3 223503.8 -2255.0  
5982 7.0 223507.7 -2224.8

5983 9.5 223511.5 -2211.5  
5984 9.5 223512.4 -2213.3  
5985 10. 223545.8 -2250.7  
5986 9.8 223604.8 -2245.8  
5987 9.1 223649.3 -2247.7  
5988 9.0 223706.4 -2234.9  
5989 9.3 223715.4 -2256.4  
5990 9.5 223735.3 -2219.4  
5991 9.5 223737.4 -2208.7  
5992 9.6 223803.4 -2247.4

5993 9.0 223804.0 -2258.0  
5994 9.6 223819.0 -2209.7  
5995 10. 223852.5 -2201.8  
5996 9.4 223911.5 -2251.9  
5997 9.1 223932.5 -2237.0  
5998 8.8 223951.1 -2258.4  
5999 8.8 223953.6 -2254.8  
6000 9.6 223956.0 -2202.9  
6001 8.3 224015.0 -2223.5  
6002 9.9 224031.1 -2228.4

6003 9.5 224118.8 -2221.3  
6004 9.4 224127.6 -2222.7  
6005 9.4 224148.8 -2221.7  
6006 9.3 224231.4 -2220.9  
6007 9.7 224231.9 -2213.7  
6008 9.5 224341.4 -2249.2  
6009 9.2 224401.7 -2241.5  
6010 9.8 224420.3 -2245.7  
6011 8.0 224433.3 -2228.3  
6012 9.8 224501.4 -2207.3

6013 9.8 224525.8 -2231.7  
6014 9.5 224531.8 -2250.0  
6015 9.7 224532.5 -2227.4  
6016 9.7 224545.8 -2254.2  
6017 10. 224607.1 -2247.5  
6018 9.1 224609.9 -2242.4  
6019 8.8 224616.1 -2206.1  
6020 9.6 224617.4 -2221.2  
6021 9.0 224620.9 -2256.7  
6022 9.2 224642.0 -2209.2

6023 9.4 224645.9 -2206.7  
6024 9.5 224734.8 -2248.5  
6025 9.9 224755.4 -2224.4  
6026 9.5 224812.7 -2258.3  
6027 10. 224813.0 -2218.4  
6028 9.8 224820.0 -2247.6  
6029 10. 224834.5 -2202.6  
6030 9.3 224915.5 -2249.8  
6031 9.5 224918.8 -2229.6  
6032 9.6 224957.3 -2245.2

6033 10. 224957.5 -2200.4  
6034 8.5 225011.2 -2248.0  
6035 9.6 225012.6 -2240.7  
6036 9.6 225016.1 -2238.6  
6037 9.4 225023.1 -2244.3  
6038 9.5 225040.0 -2221.0  
6039 9.2 225058.5 -2217.2  
6040 8.9 225140.7 -2256.1  
6041 8.9 225141.6 -2238.9  
6042 9.4 225152.1 -2252.3

6043 9.0 225234.2 -2224.1  
6044 9.4 225253.7 -2238.0  
6045 8.9 225415.1 -2237.3  
6046 10. 225434.8 -2215.0  
6047 9.3 225506.0 -2213.4  
6048 9.1 225542.2 -2223.6  
6049 9.7 225546.8 -2254.0  
6050 9.1 225547.0 -2227.8  
6051 9.4 225628.8 -2245.7  
6052 9.2 225648.4 -2217.6

6053 9.2 225654.3 -2200.7  
6054 9.3 225711.9 -2250.6  
6055 10. 225716.6 -2204.7  
6056 9.9 225721.9 -2235.3  
6057 9.6 225725.2 -2215.2  
6058 9.4 225736.6 -2218.9  
6059 9.1 225736.7 -2231.5  
6060 9.8 225756.5 -2228.0  
6061 8.7 225828.4 -2243.4  
6062 9.7 225847.2 -2203.7

6063 9.8 225857.6 -2213.2  
6064 9.5 225909.5 -2214.0  
6065 9.3 225918.3 -2209.4  
6066 9.2 225926.0 -2226.2  
6067 9.4 225939.0 -2256.9  
6068 9.4 225959.2 -2212.1  
6069 7.5 230004.3 -2249.7  
6070 9.5 230008.8 -2255.8  
6071 9.4 230017.0 -2244.3  
6072 9.2 230028.4 -2229.1

6073 8.7 230032.1 -2213.1  
6074 10. 230054.1 -2234.6  
6075 9.8 230059.0 -2236.2  
6076 9.1 230103.9 -2205.5  
6077 9.5 230107.6 -2250.4  
6078 9.5 230111.8 -2245.7  
6079 9.1 230124.9 -2248.3  
6080 9.5 230156.3 -2208.6  
6081 9.9 230223.6 -2248.5  
6082 9.5 230313.1 -2216.4

6083 9.0 230313.9 -2223.2  
6084 10. 230315.5 -2207.9  
6085 9.5 230349.5 -2247.6  
6086 8.5 230349.3 -2231.4  
6087 9.6 230349.0 -2237.0  
6088 8.0 230503.1 -2243.5  
6089 9.1 230533.3 -2211.0  
6090 9.5 230553.1 -2245.4  
6091 9.6 230556.0 -2216.9  
6092 9.6 230613.3 -2217.7

6093 8.8 230656.2 -2223.1  
6094 9.2 230706.6 -2256.3  
6095 9.1 230713.6 -2255.1  
6096 9.5 230723.7 -2234.4  
6097 10. 230752.2 -2230.3  
6098 9.8 230754.2 -2242.4  
6099 9.0 230757.4 -2238.1  
6100 8.8 230757.8 -2206.6  
6101 9.4 230806.8 -2204.8  
6102 9.5 230913.8 -2251.5

-22 6192 23h39m

6103 9.7 230920.8 -2220.0  
6104 10. 230920.9 -2201.7  
6105 9.3 231001.3 -2259.0  
6106 9.8 231014.8 -2254.9  
6107 9.7 231033.6 -2209.9  
6108 8.3 231108.4 -2255.6  
6109 10. 231117.5 -2231.0  
6110 9.5 231148.9 -2232.5  
6111 9.5 231230.4 -2216.4  
6112 9.5 231247.5 -2229.0

6113 9.8 231313.6 -2252.7  
6114 8.7 231518.2 -2219.4  
6115 9.3 231522.9 -2200.6  
6116 8.8 231527.4 -2206.3  
6117 9.4 231542.6 -2216.1  
6118 9.3 231557.1 -2232.5  
6119 6.8 231624.7 -2233.9  
6120 8.0 231659.8 -2246.9  
6121 8.2 231709.0 -2214.1  
6122 9.6 231722.8 -2206.3

6123 9.5 231723.3 -2250.1  
6124 9.2 231733.2 -2250.4  
6125 8.5 231753.8 -2226.9  
6126 10. 231817.3 -2231.2  
6127 8.8 231835.4 -2213.4  
6128 6.5 231856.4 -2231.9  
6129 10. 231859.9 -2215.1  
6130 8.8 231924.3 -2252.3  
6131 8.9 231925.8 -2200.8  
6132 9.4 231935.4 -2253.8

6133 10. 231953.8 -2250.4  
6134 9.6 232038.9 -2245.0  
6135 8.7 232103.2 -2215.8  
6136 8.0 232135.0 -2256.8  
6137 8.9 232154.9 -2258.5  
6138 7.3 232137.1 -2241.2  
6139 8.3 232153.6 -2248.3  
6140 9.7 232405.2 -2237.7  
6141 7.0 232405.5 -2209.8  
6142 7.8 232412.7 -2202.9

6143 8.2 232432.7 -2236.0  
6144 9.4 232449.2 -2242.9  
6145 9.0 232458.1 -2256.6  
6146 8.0 232514.2 -2229.6  
6147 9.5 232531.0 -2215.3  
6148 9.8 232534.7 -2258.9  
6149 9.8 232556.3 -2236.9  
6150 9.8 232705.3 -2224.0  
6151 9.0 232725.4 -2234.7  
6152 9.0 232726.8 -2239.6

6153 9.6 232743.3 -2232.4  
6154 8.6 232809.9 -2231.7  
6155 8.5 232822.4 -2227.0  
6156 9.7 232823.7 -2204.6  
6157 9.6 232830.9 -2202.6  
6158 9.5 232847.8 -2206.6  
6159 9.9 232905.0 -2237.5  
6160 8.5 232920.4 -2250.7  
6161 8.1 232927.5 -2228.6  
6162 9.5 232928.4 -2224.0

6163 9.7 232941.5 -2206.1  
6164 9.5 232954.0 -2244.4  
6165 9.7 233015.1 -2217.5  
6166 9.4 233021.6 -2219.5  
6167 9.1 233050.0 -2258.2  
6168 8.3 233053.1 -2228.4  
6169 9.0 233118.5 -2207.2  
6170 7.2 233141.6 -2243.4  
6171 10. 233203.2 -2225.5  
6172 9.2 233205.1 -2233.8

6173 9.6 233232.9 -2253.2  
6174 9.6 233234.0 -2251.7  
6175 9.5 233243.7 -2247.6  
6176 9.4 233323.5 -2240.0  
6177 9.8 233336.7 -2241.0  
6178 9.4 233350.2 -2225.4  
6179 7.8 233550.8 -2230.8  
6180 9.0 233621.3 -2252.1  
6181 9.1 233653.3 -2259.7  
6182 8.9 233713.9 -2253.7

6183 9.0 233751.8 -2204.2  
6184 9.0 233754.9 -2239.6  
6185 9.1 233759.4 -2225.2  
6186 9.4 233803.4 -2237.3  
6187 10. 233810.5 -2204.2  
6188 9.1 233821.5 -2204.7  
6189 9.0 233828.4 -2242.0  
6190 9.1 233848.5 -2238.7  
6191 8.5 233937.9 -2218.6  
6192 8.3 233943.3 -2234.7



|      |     |          |         |    |     |         |         |     |     |         |         |     |     |          |         |
|------|-----|----------|---------|----|-----|---------|---------|-----|-----|---------|---------|-----|-----|----------|---------|
| 6193 | 9.3 | 233958.3 | -2219.6 | 18 | 6.3 | 12026.0 | -2305.9 | 108 | 9.3 | 65808.8 | -2302.1 | 198 | 9.4 | 93535.9  | -2300.0 |
| 6194 | 10. | 234018.0 | -2254.0 | 19 | 8.5 | 12107.0 | -2305.6 | 109 | 8.9 | 65926.4 | -2300.1 | 199 | 9.4 | 93538.9  | -2304.2 |
| 6195 | 9.5 | 234027.1 | -2219.9 | 20 | 9.5 | 12258.6 | -2300.6 | 110 | 9.5 | 70041.7 | -2300.2 | 200 | 9.0 | 93946.1  | -2300.4 |
| 6196 | 9.1 | 234028.0 | -2242.4 | 21 | 9.0 | 12358.2 | -2302.5 | 111 | 9.8 | 70315.1 | -2301.6 | 201 | 9.4 | 93958.2  | -2302.2 |
| 6197 | 9.8 | 234037.5 | -2243.6 | 22 | 9.5 | 12612.2 | -2300.2 | 112 | 9.0 | 70437.1 | -2300.9 | 202 | 9.0 | 94011.4  | -2302.4 |
| 6198 | 9.8 | 234056.1 | -2229.0 | 23 | 9.3 | 12624.3 | -2304.2 | 113 | 9.3 | 70558.5 | -2302.9 | 203 | 9.2 | 94051.8  | -2304.8 |
| 6199 | 6.8 | 234156.6 | -2224.7 | 24 | 9.1 | 13635.8 | -2301.0 | 114 | 9.4 | 70628.3 | -2303.4 | 204 | 9.8 | 94444.7  | -2300.9 |
| 6200 | 9.5 | 234156.8 | -2209.0 | 25 | 8.5 | 14219.2 | -2304.0 | 115 | 9.7 | 70628.5 | -2301.2 | 205 | 8.3 | 94546.1  | -2304.9 |
| 6201 | 9.5 | 234216.2 | -2249.0 | 26 | 9.5 | 14254.7 | -2301.2 | 116 | 9.5 | 70839.0 | -2300.6 | 206 | 7.8 | 94553.6  | -2302.4 |
| 6202 | 9.1 | 234225.7 | -2242.9 | 27 | 9.4 | 14305.2 | -2302.4 | 117 | 5.0 | 71030.4 | -2303.9 | 207 | 9.8 | 94711.6  | -2303.8 |
| 6203 | 10. | 234239.7 | -2243.4 | 28 | 9.5 | 14312.7 | -2300.4 | 118 | 7.0 | 71032.4 | -2303.9 | 208 | 9.1 | 94716.7  | -2300.2 |
| 6204 | 9.8 | 234254.8 | -2201.9 | 29 | 9.5 | 15537.2 | -2305.7 | 119 | 9.8 | 71411.3 | -2303.1 | 209 | 9.8 | 94933.0  | -2300.5 |
| 6205 | 10. | 234304.8 | -2209.1 | 30 | 9.4 | 20516.2 | -2302.2 | 120 | 9.2 | 71547.6 | -2304.5 | 210 | 8.8 | 95216.9  | -2303.1 |
| 6206 | 8.8 | 234315.2 | -2208.2 | 31 | 9.4 | 20658.3 | -2302.8 | 121 | 9.8 | 71741.2 | -2304.1 | 211 | 9.5 | 100110.5 | -2301.6 |
| 6207 | 9.9 | 234339.2 | -2255.4 | 32 | 9.5 | 20713.9 | -2302.4 | 122 | 9.8 | 71749.7 | -2300.5 | 212 | 9.6 | 100443.6 | -2300.1 |
| 6208 | 9.4 | 234416.3 | -2227.0 | 33 | 9.3 | 21236.4 | -2302.7 | 123 | 9.1 | 71806.2 | -2304.8 | 213 | 6.7 | 100721.9 | -2305.6 |
| 6209 | 9.3 | 234417.2 | -2254.9 | 34 | 9.7 | 22736.6 | -2301.4 | 124 | 9.5 | 72003.7 | -2304.4 | 214 | 9.2 | 100857.0 | -2300.8 |
| 6210 | 9.4 | 234422.2 | -2202.4 | 35 | 9.0 | 23053.8 | -2304.6 | 125 | 8.5 | 72220.7 | -2302.9 | 215 | 9.5 | 100959.8 | -2301.4 |
| 6211 | 10. | 234434.2 | -2210.4 | 36 | 9.3 | 23827.2 | -2303.1 | 126 | 9.0 | 72522.7 | -2303.7 | 216 | 9.0 | 101132.4 | -2300.4 |
| 6212 | 9.1 | 234456.6 | -2202.8 | 37 | 9.5 | 23931.7 | -2305.5 | 127 | 9.4 | 73112.7 | -2304.8 | 217 | 9.1 | 101322.8 | -2302.3 |
| 6213 | 9.7 | 234459.6 | -2245.2 | 38 | 7.0 | 24038.3 | -2305.8 | 128 | 8.2 | 73346.9 | -2301.5 | 218 | 9.0 | 101551.7 | -2306.7 |
| 6214 | 9.7 | 234509.4 | -2223.7 | 39 | 9.7 | 24643.7 | -2302.9 | 129 | 9.3 | 73425.7 | -2306.6 | 219 | 9.2 | 101552.1 | -2302.5 |
| 6215 | 7.8 | 234526.6 | -2216.9 | 40 | 9.1 | 30117.5 | -2300.8 | 130 | 9.1 | 73531.4 | -2304.0 | 220 | 9.4 | 101738.6 | -2300.1 |
| 6216 | 9.6 | 234531.3 | -2204.8 | 41 | 9.5 | 30259.2 | -2302.7 | 131 | 10. | 73623.8 | -2301.0 | 221 | 8.0 | 102028.0 | -2302.5 |
| 6217 | 8.5 | 234614.9 | -2225.6 | 42 | 9.0 | 30854.4 | -2301.3 | 132 | 9.4 | 73628.2 | -2306.4 | 222 | 9.2 | 102151.9 | -2301.5 |
| 6218 | 9.9 | 234625.9 | -2200.8 | 43 | 9.0 | 31133.0 | -2301.3 | 133 | 9.5 | 74055.5 | -2301.4 | 223 | 8.0 | 102333.3 | -2306.5 |
| 6219 | 9.8 | 234718.0 | -2235.6 | 44 | 5.5 | 31157.6 | -2302.2 | 134 | 9.8 | 74106.6 | -2301.7 | 224 | 9.5 | 103535.7 | -2303.8 |
| 6220 | 9.9 | 234718.4 | -2224.4 | 45 | 9.5 | 31802.4 | -2302.3 | 135 | 9.2 | 74227.8 | -2305.6 | 225 | 9.8 | 104140.8 | -2304.6 |
| 6221 | 9.8 | 234741.2 | -2139.0 | 46 | 7.0 | 32327.0 | -2300.4 | 136 | 10. | 74510.7 | -2301.2 | 226 | 9.7 | 104822.9 | -2302.9 |
| 6222 | 6.8 | 234742.2 | -2111.2 | 47 | 9.0 | 33758.3 | -2301.7 | 137 | 10. | 74514.5 | -2301.2 | 227 | 9.6 | 105435.0 | -2304.9 |
| 6223 | 9.7 | 234744.5 | -2206.8 | 48 | 9.4 | 34417.2 | -2301.6 | 138 | 7.8 | 74848.7 | -2305.2 | 228 | 9.0 | 105620.3 | -2300.3 |
| 6224 | 9.1 | 234744.5 | -2225.8 | 49 | 8.6 | 34925.8 | -2302.0 | 139 | 9.3 | 74925.1 | -2302.7 | 229 | 9.3 | 110045.7 | -2301.1 |
| 6225 | 7.0 | 234838.1 | -2247.9 | 50 | 9.4 | 35110.8 | -2303.6 | 140 | 9.2 | 75245.5 | -2302.1 | 230 | 8.5 | 110055.2 | -2304.2 |
| 6226 | 9.0 | 234906.6 | -2205.8 | 51 | 9.0 | 41343.8 | -2302.5 | 141 | 9.1 | 75952.9 | -2305.0 | 231 | 9.0 | 110540.6 | -2301.9 |
| 6227 | 9.4 | 234929.1 | -2201.9 | 52 | 9.3 | 41548.8 | -2302.0 | 142 | 9.8 | 80016.8 | -2300.4 | 232 | 9.1 | 110544.5 | -2304.1 |
| 6228 | 9.9 | 234950.1 | -2241.8 | 53 | 9.8 | 41717.4 | -2304.8 | 143 | 8.5 | 80229.2 | -2308.0 | 233 | 9.7 | 111040.6 | -2304.3 |
| 6229 | 8.5 | 235001.2 | -2227.0 | 54 | 8.7 | 41946.2 | -2300.5 | 144 | 9.0 | 80311.0 | -2300.5 | 234 | 9.5 | 111908.4 | -2300.1 |
| 6230 | 9.5 | 235018.9 | -2253.5 | 55 | 9.0 | 42156.3 | -2302.4 | 145 | 9.0 | 80354.2 | -2304.8 | 235 | 9.0 | 112008.8 | -2301.1 |
| 6231 | 9.5 | 235019.2 | -2209.9 | 56 | 7.3 | 42204.3 | -2305.4 | 146 | 9.4 | 80602.1 | -2302.0 | 236 | 7.8 | 112110.3 | -2301.5 |
| 6232 | 8.5 | 235041.1 | -2242.5 | 57 | 9.3 | 42504.8 | -2304.5 | 147 | 8.0 | 80659.1 | -2304.7 | 237 | 9.6 | 112128.7 | -2301.1 |
| 6233 | 9.7 | 235043.7 | -2241.6 | 58 | 9.5 | 42851.4 | -2300.1 | 148 | 9.2 | 80709.3 | -2302.4 | 238 | 9.0 | 112533.0 | -2306.7 |
| 6234 | 9.4 | 235050.7 | -2258.3 | 59 | 9.5 | 42857.9 | -2303.5 | 149 | 9.4 | 80809.0 | -2301.5 | 239 | 8.5 | 112547.2 | -2306.0 |
| 6235 | 9.0 | 235056.7 | -2242.5 | 60 | 9.5 | 43207.4 | -2302.6 | 150 | 9.8 | 80942.8 | -2300.2 | 240 | 8.5 | 112804.9 | -2302.0 |
| 6236 | 9.8 | 235112.1 | -2216.3 | 61 | 9.8 | 43900.1 | -2304.2 | 151 | 9.5 | 81006.4 | -2300.9 | 241 | 9.6 | 112838.3 | -2302.4 |
| 6237 | 9.7 | 235112.8 | -2240.0 | 62 | 8.0 | 44025.6 | -2302.5 | 152 | 9.3 | 81038.9 | -2301.5 | 242 | 9.1 | 113121.7 | -2302.6 |
| 6238 | 9.4 | 235115.3 | -2206.8 | 63 | 9.4 | 44045.1 | -2304.6 | 153 | 9.8 | 81125.8 | -2300.6 | 243 | 9.3 | 113439.5 | -2304.2 |
| 6239 | 9.6 | 235132.3 | -2218.5 | 64 | 8.2 | 45154.3 | -2302.2 | 154 | 9.5 | 81250.9 | -2304.0 | 244 | 9.8 | 114053.2 | -2300.8 |
| 6240 | 9.5 | 235233.3 | -2230.0 | 65 | 6.0 | 45637.9 | -2300.4 | 155 | 7.2 | 81348.3 | -2301.0 | 245 | 7.8 | 114406.7 | -2302.7 |
| 6241 | 9.7 | 235304.4 | -2204.1 | 66 | 9.5 | 50244.1 | -2303.9 | 156 | 9.5 | 81416.2 | -2303.2 | 246 | 9.1 | 114411.8 | -2300.0 |
| 6242 | 9.8 | 235309.0 | -2219.3 | 67 | 9.1 | 50305.0 | -2301.2 | 157 | 9.7 | 81440.2 | -2301.4 | 247 | 9.7 | 114421.1 | -2302.5 |
| 6243 | 9.9 | 235322.0 | -2241.7 | 68 | 8.8 | 50349.6 | -2300.4 | 158 | 9.0 | 81837.7 | -2303.8 | 248 | 9.1 | 114431.1 | -2305.6 |
| 6244 | 9.7 | 235322.1 | -2251.2 | 69 | 9.5 | 50636.2 | -2305.3 | 159 | 9.5 | 82027.6 | -2300.4 | 249 | 9.0 | 114614.5 | -2306.4 |
| 6245 | 9.2 | 235332.8 | -2227.5 | 70 | 7.0 | 50938.2 | -2303.8 | 160 | 8.0 | 82334.1 | -2303.7 | 250 | 9.0 | 115050.7 | -2306.7 |
| 6246 | 8.6 | 235347.6 | -2212.6 | 71 | 9.2 | 51251.8 | -2302.7 | 161 | 9.5 | 82417.9 | -2300.5 | 251 | 9.3 | 115106.2 | -2301.7 |
| 6247 | 9.1 | 235406.0 | -2256.8 | 72 | 9.4 | 51350.0 | -2301.5 | 162 | 8.2 | 82522.0 | -2302.9 | 252 | 9.0 | 115257.6 | -2302.8 |
| 6248 | 9.4 | 235417.9 | -2250.8 | 73 | 9.4 | 51834.3 | -2301.2 | 163 | 9.5 | 82525.5 | -2302.4 | 253 | 9.5 | 115353.1 | -2307.4 |
| 6249 | 9.8 | 235447.7 | -2206.4 | 74 | 9.0 | 51955.4 | -2302.6 | 164 | 8.2 | 82958.4 | -2305.7 | 254 | 9.8 | 120137.0 | -2302.8 |
| 6250 | 9.5 | 235501.4 | -2254.8 | 75 | 9.2 | 52122.4 | -2301.9 | 165 | 9.0 | 83326.3 | -2304.2 | 255 | 9.1 | 120821.7 | -2302.3 |
| 6251 | 8.3 | 235518.0 | -2242.0 | 76 | 9.0 | 52548.8 | -2303.1 | 166 | 9.3 | 83512.1 | -2301.8 | 256 | 9.8 | 121603.4 | -2301.7 |
| 6252 | 9.2 | 235520.1 | -2202.8 | 77 | 9.1 | 52755.1 | -2302.0 | 167 | 9.7 | 83654.1 | -2302.0 | 257 | 8.8 | 121717.2 | -2301.5 |
| 6253 | 9.5 | 235528.4 | -2201.6 | 78 | 9.3 | 53231.8 | -2300.2 | 168 | 8.7 | 83740.1 | -2304.6 | 258 | 9.1 | 122218.5 | -2300.4 |
| 6254 | 10. | 235538.6 | -2205.7 | 79 | 8.9 | 54058.9 | -2303.5 | 169 | 9.9 | 83905.8 | -2302.9 | 259 | 9.4 | 122359.7 | -2302.9 |
| 6255 | 10. | 235648.5 | -2207.7 | 80 | 9.0 | 54236.1 | -2303.4 | 170 | 9.8 | 83952.8 | -2305.2 | 260 | 9.0 | 122456.0 | -2305.1 |
| 6256 | 9.6 | 235720.3 | -2202.9 | 81 | 9.5 | 54305.3 | -2304.6 | 171 | 9.5 | 84142.7 | -2301.7 | 261 | 8.8 | 122817.6 | -2302.0 |
| 6257 | 7.4 | 235755.4 | -2207.3 | 82 | 6.7 | 54349.9 | -2301.1 | 172 | 9.8 | 84243.6 | -2300.2 | 262 | 7.8 | 123158.4 | -2300.8 |
| 6258 | 9.4 | 235803.1 | -2237.2 | 83 | 9.6 | 54537.0 | -2302.5 | 173 | 9.3 | 84517.5 | -2305.6 | 263 | 8.3 | 123403.2 | -2304.5 |
| 6259 | 9.3 | 235830.2 | -2228.1 | 84 | 9.5 | 55012.5 | -2300.1 | 174 | 9.4 | 84813.1 | -2304.1 | 264 | 8.1 | 123525.2 | -2302.7 |
| 6260 | 9.8 | 235803.2 | -2206.6 | 85 | 9.8 | 55113.0 | -2300.3 | 175 | 9.5 | 84838.6 | -2303.3 | 265 | 9.1 | 123607.6 | -2302.9 |
| 6261 | 8.5 | 235907.1 | -2218.3 | 86 | 9.8 | 55205.9 | -2301.4 | 176 | 9.5 | 84841.5 | -2304.5 | 266 | 9.6 | 124940.2 | -2304.0 |
| 6262 | 9.5 | 235931.6 | -2259.1 | 87 | 9.8 | 55248.6 | -2300.8 | 177 | 9.3 | 85047.5 | -2302.2 | 267 | 7.5 | 130050.4 | -2302.4 |
| 6263 | 8.4 | 235936.7 | -2238.1 | 88 | 9.8 | 55256.8 | -2300.2 | 178 | 9.0 | 85222.3 | -2303.1 | 268 | 8.5 | 130221.4 | -2305.1 |
| 6264 | 9.3 | 235942.8 | -2205.4 | 89 | 9.1 | 55316.8 | -2301.1 | 179 | 9.3 | 85903.3 | -2305.6 | 269 | 8.0 | 130703.1 | -2305.0 |
| 6265 | 9.4 | 235948.2 | -2250.2 | 90 | 7.0 | 60029.4 | -2306.1 | 180 | 9.8 | 85944.1 | -2301.3 | 270 | 7.0 | 131252.5 | -2300.1 |
| 1    | 8.5 | 00531.0  | -2304.2 | 91 | 8.2 | 60048.5 | -2304.7 | 181 | 9.0 | 90618.4 | -2305.4 | 271 | 9.5 | 131559.0 | -2300.5 |
| 2    | 9.2 | 00935.4  | -2302.4 | 92 | 9.6 | 60140.0 | -2303.3 | 182 | 9.5 | 91117.1 | -2301.2 | 272 | 9.2 | 131727.4 | -2301.6 |
| 3    | 9.0 | 01133.2  | -2302.2 | 93 | 9.4 | 60909.6 |         |     |     |         |         |     |     |          |         |



|                          |                          |                          |
|--------------------------|--------------------------|--------------------------|
| 288 9.0 144052.5 -2304.8 | 378 10. 185002.4 -2303.1 | 468 9.1 225842.5 -2304.0 |
| 289 9.0 144209.0 -2300.1 | 379 8.9 185151.8 -2303.8 | 469 8.2 225917.0 -2300.2 |
| 290 9.0 144638.2 -2304.0 | 380 9.1 185214.4 -2300.9 | 470 9.7 230126.1 -2305.1 |
| 291 9.3 145036.2 -2303.7 | 381 9.5 185270.4 -2305.4 | 471 9.1 230405.4 -2300.2 |
| 292 8.7 145149.1 -2301.2 | 382 8.7 185308.0 -2303.7 | 472 8.8 230759.1 -2303.1 |
| 293 9.1 145826.8 -2303.6 | 383 9.5 185443.4 -2306.8 | 473 8.9 231303.9 -2305.9 |
| 294 9.5 145922.3 -2302.3 | 384 8.0 185530.5 -2306.6 | 474 9.2 231510.6 -2303.6 |
| 295 9.5 150224.7 -2301.2 | 385 9.5 185710.5 -2300.7 | 475 9.1 232303.0 -2304.7 |
| 296 9.5 150399.7 -2304.7 | 386 8.5 185717.0 -2303.4 | 476 7.5 233954.5 -2304.8 |
| 297 9.8 151233.8 -2300.3 | 387 9.5 185804.5 -2303.7 | 477 9.0 234156.6 -2300.6 |
| 298 9.6 151943.6 -2301.4 | 388 9.4 190328.6 -2304.0 | 478 9.1 234204.6 -2300.2 |
| 299 9.4 152117.1 -2303.3 | 389 8.3 190411.2 -2302.3 | 479 8.0 234255.4 -2302.8 |
| 300 9.2 153141.7 -2307.1 | 390 9.5 190444.6 -2304.5 | 480 9.6 234309.7 -2305.0 |
| 301 8.7 153655.5 -2303.0 | 391 9.5 191016.0 -2306.3 | 481 9.8 234712.9 -2300.2 |
| 302 9.5 154411.3 -2301.3 | 392 9.8 191629.7 -2301.8 |                          |
| 303 8.5 154732.2 -2302.8 | 393 8.0 192343.4 -2302.7 |                          |
| 304 7.2 154912.6 -2305.8 | 394 9.4 192522.1 -2303.1 |                          |
| 305 9.5 154937.0 -2303.0 | 395 9.5 192951.1 -2301.3 |                          |
| 306 9.7 155139.9 -2307.2 | 396 9.5 193042.9 -2300.4 |                          |
| 307 10. 155404.6 -2303.3 | 397 8.5 193104.6 -2303.3 |                          |
| 308 9.5 160204.2 -2302.9 | 398 9.0 193143.1 -2302.8 |                          |
| 309 7.0 161643.1 -2307.0 | 399 9.9 193332.2 -2305.4 |                          |
| 310 5.0 161653.1 -2306.1 | 400 8.8 193636.1 -2305.7 |                          |
| 311 7.0 161653.7 -2304.0 | 401 9.8 194013.1 -2305.1 |                          |
| 312 8.3 163231.1 -2302.5 | 402 9.4 194212.9 -2301.4 |                          |
| 313 9.6 163320.6 -2300.1 | 403 9.5 194552.7 -2304.0 |                          |
| 314 9.8 164315.2 -2300.6 | 404 9.3 194600.7 -2300.9 |                          |
| 315 9.5 164406.9 -2304.0 | 405 9.0 194606.7 -2300.1 |                          |
| 316 9.0 164616.9 -2301.1 | 406 8.3 194801.0 -2305.6 |                          |
| 317 9.0 164850.4 -2305.4 | 407 9.0 195004.3 -2300.7 |                          |
| 318 8.0 165323.4 -2304.0 | 408 9.3 195125.3 -2304.0 |                          |
| 319 9.8 165828.0 -2300.9 | 409 8.2 195210.7 -2301.7 |                          |
| 320 8.5 165948.4 -2302.3 | 410 9.3 195552.0 -2303.5 |                          |
| 321 9.2 170438.0 -2303.2 | 411 8.5 195645.7 -2302.4 |                          |
| 322 9.2 170453.0 -2300.5 | 412 9.5 195703.2 -2300.0 |                          |
| 323 9.5 170637.4 -2302.2 | 413 8.3 200013.7 -2306.8 |                          |
| 324 9.5 170912.4 -2300.1 | 414 9.3 200334.0 -2302.2 |                          |
| 325 9.1 171220.0 -2300.5 | 415 9.8 200348.2 -2302.3 |                          |
| 326 7.8 171714.9 -2301.8 | 416 9.3 200635.7 -2302.1 |                          |
| 327 8.9 172215.6 -2303.8 | 417 9.7 200921.9 -2302.9 |                          |
| 328 9.3 172920.3 -2301.7 | 418 9.2 200931.0 -2304.2 |                          |
| 329 9.5 173616.2 -2304.0 | 419 9.7 200952.5 -2301.8 |                          |
| 330 9.8 173718.0 -2301.0 | 420 9.0 201704.9 -2302.9 |                          |
| 331 9.8 173732.7 -2304.3 | 421 9.4 201720.4 -2303.7 |                          |
| 332 8.0 174126.7 -2304.8 | 422 8.7 201829.0 -2302.0 |                          |
| 333 9.5 174149.7 -2304.8 | 423 9.1 202116.0 -2307.6 |                          |
| 334 9.0 174826.8 -2307.3 | 424 9.6 202116.5 -2304.0 |                          |
| 335 9.2 175031.3 -2303.8 | 425 9.2 202325.1 -2302.1 |                          |
| 336 9.3 175159.8 -2303.3 | 426 9.4 202328.6 -2303.9 |                          |
| 337 9.5 175211.0 -2301.5 | 427 9.1 202634.8 -2305.3 |                          |
| 338 7.5 175334.3 -2301.4 | 428 9.8 203144.5 -2304.9 |                          |
| 339 9.5 175406.1 -2301.3 | 429 9.5 203535.1 -2303.8 |                          |
| 340 10. 175637.9 -2300.4 | 430 9.3 204949.7 -2303.2 |                          |
| 341 9.5 175824.5 -2303.0 | 431 9.6 205223.3 -2305.0 |                          |
| 342 9.5 175825.2 -2304.4 | 432 9.2 205238.1 -2306.8 |                          |
| 343 8.3 175857.8 -2307.0 | 433 9.9 205550.3 -2301.3 |                          |
| 344 10. 180037.8 -2306.4 | 434 9.1 205629.2 -2304.6 |                          |
| 345 10. 180103.9 -2302.4 | 435 8.7 210137.4 -2306.6 |                          |
| 346 9.3 180431.8 -2304.3 | 436 7.7 210209.0 -2303.5 |                          |
| 347 9.0 180559.8 -2305.3 | 437 9.5 210333.8 -2301.3 |                          |
| 348 9.7 180713.8 -2304.8 | 438 9.0 210651.2 -2306.9 |                          |
| 349 9.5 180733.9 -2302.2 | 439 9.1 211343.5 -2300.6 |                          |
| 350 9.5 180801.2 -2301.1 | 440 9.2 211533.6 -2303.9 |                          |
| 351 9.5 180938.8 -2305.8 | 441 8.8 211751.8 -2305.5 |                          |
| 352 9.4 180957.0 -2302.2 | 442 4.7 211822.8 -2301.9 |                          |
| 353 9.0 181003.8 -2306.6 | 443 9.6 211955.3 -2301.0 |                          |
| 354 9.0 181447.8 -2306.4 | 444 9.4 212541.9 -2306.4 |                          |
| 355 9.2 181616.6 -2302.0 | 445 9.5 212614.1 -2300.3 |                          |
| 356 8.9 181621.7 -2302.9 | 446 9.0 212717.1 -2307.3 |                          |
| 357 7.0 181918.7 -2305.3 | 447 9.6 213215.4 -2305.2 |                          |
| 358 9.2 182050.2 -2302.0 | 448 9.2 213804.7 -2306.5 |                          |
| 359 9.3 182235.7 -2304.5 | 449 9.5 213814.3 -2303.8 |                          |
| 360 9.4 182316.2 -2302.5 | 450 9.5 213901.6 -2301.3 |                          |
| 361 9.8 182604.4 -2302.3 | 451 9.1 214412.4 -2304.1 |                          |
| 362 9.5 182901.4 -2300.9 | 452 9.6 215212.4 -2301.3 |                          |
| 363 8.5 183008.7 -2303.6 | 453 9.5 215430.2 -2303.9 |                          |
| 364 9.5 183053.2 -2302.8 | 454 9.4 220052.0 -2301.3 |                          |
| 365 9.5 183100.7 -2302.8 | 455 9.6 220849.4 -2301.6 |                          |
| 366 10. 183215.2 -2300.3 | 456 7.2 221009.5 -2301.3 |                          |
| 367 9.8 183310.3 -2300.2 | 457 9.8 221550.8 -2302.5 |                          |
| 368 10. 183346.3 -2300.4 | 458 9.1 222077.7 -2301.8 |                          |
| 369 9.5 183412.7 -2303.3 | 459 9.2 222547.6 -2304.8 |                          |
| 370 9.4 183925.8 -2303.5 | 460 9.5 223033.5 -2304.0 |                          |
| 371 7.5 184126.5 -2300.2 | 461 8.8 223447.8 -2302.8 |                          |
| 372 10. 184344.4 -2303.1 | 462 9.4 224127.1 -2303.2 |                          |
| 373 9.5 184439.9 -2303.1 | 463 9.4 224342.2 -2304.8 |                          |
| 374 9.4 184443.8 -2305.0 | 464 9.3 224549.8 -2304.8 |                          |
| 375 8.5 184529.3 -2304.3 | 465 8.3 225304.7 -2302.4 |                          |
| 376 9.5 184830.9 -2303.7 | 466 9.1 225532.9 -2305.2 |                          |
| 377 10. 184924.4 -2300.1 | 467 7.1 225624.4 -2300.6 |                          |







| REPORT DOCUMENTATION PAGE   |   |   | Form Approved<br>OMB No. 0704-0188          |  |
|---|---|---|---|--|
| <small>Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</small>  |   |   |   |  |
| 1. AGENCY USE ONLY (Leave blank)  | 2. REPORT DATE<br>May 1993                                      | 3. REPORT TYPE AND DATES COVERED<br>Reference Publication                       |   |  |
| 4. TITLE AND SUBTITLE<br><br>Bonner Durchmusterung (Southern Durchmusterung)<br>Volume III  |   | 5. FUNDING NUMBERS<br><br>633<br>Contract No. NAS5-30960                        |   |  |
| 6. AUTHOR(S)<br>Compiled by Astronomical Data Center,<br>National Space Science Data Center (NSSDC)/  |   |   |   |  |
| 7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)<br><br>Goddard Space Flight Center<br>Greenbelt, Maryland 20771  |   | 8. PERFORMING ORGANIZATION<br><br>93B00049                                      |   |  |
| 9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)<br><br>National Aeronautics and Space Administration<br>Washington, D.C. 20546-0001   |   | 10. SPONSORING/MONITORING<br>AGENCY REPORT NUMBER<br><br>NASA RP-1298, Vol. III |   |  |
| 11. SUPPLEMENTARY NOTES   |   |   |   |  |
| 12a. DISTRIBUTION/AVAILABILITY STATEMENT<br><br>Unclassified-Unlimited<br>Subject Category 89   |   |   | 12b. DISTRIBUTION CODE                      |  |
| 13. ABSTRACT (Maximum 200 words)<br><br><p>The <i>Southern Durchmusterung</i> (SD, Schönfeld 1886, Becker 1949, Schmidt 1967) is a visual survey of stars in the declination zones <math>-02^{\circ}</math> to <math>-23^{\circ}</math>, completed as an extension to Argelander's (1859-62) monumental <i>Bonner Durchmusterung</i> (BD). Schönfeld's survey was carried out using the same methods as had been used for the BD. The procedure consisted of allowing the telescope to drift along the mean declination of each zone and recording the positions and magnitudes of stars crossing the transit line of each field. The SD contains a number of stars fainter than 10.0 mag and even some as faint as 11 mag. The positions are given to 0.1" in right ascension and 0.1" in declination for the equinox 1855.</p> <p>A list of all corrections made to the original data as a result of published corrigenda, stars deleted according to overstriking in the printed catalogs or their inclusion in lists of "missing" stars, and stars inserted in later editions are given. No other corrections or changes have been incorporated into the original data; e.g., from more modern positions and magnitudes or from comparison with other catalogs.</p> |   |   |   |  |
| 14. SUBJECT TERMS<br><br>Catalog-Astronomical, Survey-Stars, Stars-Positions, Stars-Magnitudes,<br>Durchmusterung   |   |   | 15. NUMBER OF PAGES<br><br>384              |  |
|   |   |   | 16. PRICE CODE<br><br>A17                   |  |
| 17. SECURITY CLASSIFICATION<br>OF REPORT<br><br>Unclassified  | 18. SECURITY CLASSIFICATION<br>OF THIS PAGE<br><br>Unclassified | 19. SECURITY CLASSIFICATION<br>OF ABSTRACT<br><br>Unclassified                  | 20. LIMITATION OF ABSTRACT<br><br>Unlimited |  |







|  |  |  |
|--|--|--|
| To be initiated by the responsible NASA Project Officer, Technical Monitor, or other appropriate NASA official for all presentations, reports, papers, and proceedings that contain scientific and technical information. Explanations are on the back of this form and are presented in greater detail in NHB 2200.2, "NASA Scientific and Technical Information Handbook." | <input type="checkbox"/> Original<br><input type="checkbox"/> Modified | (Facility Use Only)<br>Control No. _____<br>Date _____ |
|--|--|--|

**I. DOCUMENT/PROJECT IDENTIFICATION** (Information contained on report documents, etc. — do not be repeated except title, date and contract number)

Title: Durchmusterung Catalogs

Author(s): ADC

Originating NASA Organization: ADC / NSSDC / 633

Performing Organization (if different): \_\_\_\_\_

Contract/Grant/Interagency/Project Number(s): \_\_\_\_\_

Document Number(s): NASA RP-1297, 1298, ~~1299~~ 1298 - vol II + vol 3 Document Date: \_\_\_\_\_

(For presentations or externally published documents, enter appropriate information on the intended publication such as name, place, and date of conference, periodical or journal title, or book title and publisher: \_\_\_\_\_)

These documents must be routed to NASA Headquarters, International Affairs Division for approval. (See Section VII)

**II. AVAILABILITY CATEGORY**

Check the appropriate category(ies):

Security Classification: ☐ Secret ☐ Secret RD ☐ Confidential ☐ Confidential RD ☒ Unclassified

Export Controlled Document - Documents marked in this block must be routed to NASA Headquarters International Affairs Division for approval.

☐ ITAR ☐ EAR

NASA Restricted Distribution Document

☐ FEDD ☐ Limited Distribution ☐ Special Conditions - See Section III

Document disclosing an invention

☐ Documents marked in this block must be withheld from release until six months have elapsed after submission of this form, unless a different release date is established by the appropriate counsel. (See Section IX).

Publicly Available Document

☒ Publicly available documents must be unclassified and may not be export-controlled or restricted distribution documents.

☐ Copyrighted ☒ Not copyrighted

**III. SPECIAL CONDITIONS**

Check one or more of the applicable boxes in each of (a) and (b) as the basis for special restricted distribution if the "Special Conditions" box under NASA Restricted Distribution Document in Section II is checked. Guidelines are provided on reverse side of form.

a. This document contains:

☐ Foreign government information ☐ Commercial product test or evaluation results ☐ Preliminary information ☐ Information subject to special contract provision

☐ Other - Specify \_\_\_\_\_

b. Check one of the following limitations as appropriate:

☐ U.S. Government agencies and U.S. Government agency contractors only ☐ NASA contractors and U.S. Government agencies only ☐ U.S. Government agencies only

☐ NASA personnel and NASA contractors only ☐ NASA personnel only ☐ Available only with approval of issuing office: \_\_\_\_\_

**IV. BLANKET RELEASE (OPTIONAL)**

All documents issued under the following contract/grant/project number \_\_\_\_\_ may be processed as checked in Sections II and III.

The blanket release authorization granted \_\_\_\_\_ Date \_\_\_\_\_ is:

☐ Rescinded - Future documents must have individual availability authorizations. ☐ Modified - Limitations for all documents processed in the STI system under the blanket release should be changed to conform to blocks as checked in Section II.

**V. PROJECT OFFICER/TECHNICAL MONITOR**

JOSEPH H. KING 633 Joseph H. King 2/16/93

Typed Name of Project Officer/Technical Monitor Office Code Signature Date

**VI. PROGRAM OFFICE REVIEW** ☐ Approved ☐ Not Approved

TIM L. GREEN 630 Tim L. Green 2/17/93

Typed Name of Program Office Representative Program Office and Code Signature Date

Stephen S. Holt 600 \_\_\_\_\_ 2/17/93

**VII. INTERNATIONAL AFFAIRS DIVISION REVIEW**

☐ Open, domestic conference presentation approved. ☐ Export controlled limitation is not applicable.

☐ Foreign publication/presentation approved. ☐ The following Export controlled limitation (ITAR/EAR) is assigned to this document: \_\_\_\_\_

☐ Export controlled limitation is approved.

International Affairs Div. Representative \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

**VIII. EXPIRATION OF REVIEW TIME**

The document is being released in accordance with the availability category and limitation checked in Section II since no objection was received from the Program Office within 20 days of submission, as specified by NHB 2200.2, and approval by the International Affairs Division is not required.

Name & Title \_\_\_\_\_ Office Code \_\_\_\_\_ Date \_\_\_\_\_

Note: This release procedure cannot be used with documents designated as Export Controlled Documents, conference presentations or foreign publications.

**IX. DOCUMENTS DISCLOSING AN INVENTION**

a. This document may be released on \_\_\_\_\_ Installation Patent or Intellectual Property Counsel \_\_\_\_\_ Date \_\_\_\_\_

b. The document was processed on \_\_\_\_\_ In accordance with Sections II and III as applicable. NASA STI Facility \_\_\_\_\_ Date \_\_\_\_\_

**X. DISPOSITION**

Completed forms should be forwarded to the NASA Scientific and Technical Information Facility, P.O. Box 8757, B.W.I. Airport, Maryland 21240, with either (check box):

☒ Printed or reproducible copy of document enclosed

☐ Abstract or Report Documentation Page enclosed. The issuing or sponsoring NASA installation should provide a copy of the document, when complete, to the NASA Scientific and Technical Information Facility at the above listed address.



